

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Programming Fundamentals اساسيات البرمجة		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 checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI-1	Semester of Delivery	1
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Sedeeq Hasan Albanaa Al-khazraji	e-mail	sedeeq.alkhazraji@uomosul.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Amera Istiqlal Badran	e-mail	amera_istiqlal@uomosul.edu.iq
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0
Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem)	89	Structured SWL (h/w)	6
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعياً	
Unstructured SWL (h/sem)	61	Unstructured SWL (h/w)	4
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعياً	
Total SWL (h/sem)	150		
الحمل الدراسي الكلي للطالب خلال الفصل			

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## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Logic Circuits Design تصميم الدوائر المنطقية		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	UoMCS102		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UG I - 1	Semester of Delivery	One (1)
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Dr. Amera Istiqlal Badran	e-mail	amera_istiqlal@uomosul.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	None	e-mail	None
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	75	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	75	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

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## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	System Analysis and Design النظام تحليل وتصميم		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoMCS103		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI-1	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Ban Ghanim	e-mail	ban_ghanm2019@uomousl.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Master
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem)	73	Structured SWL (h/w)	6
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعياً	
Unstructured SWL (h/sem)	77	Unstructured SWL (h/w)	5
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعياً	
Total SWL (h/sem)	150		
الحمل الدراسي الكلي للطالب خلال الفصل			

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Discrete Mathematics رياضيات متقطعة		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS104		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGI	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Dr. Omar Muayad Abdullah	e-mail	omaraldewachy@uomosul.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0
Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	73	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	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/Nu	Weight (Marks)	Week Due	Relevant Learning

		<b>Number</b>			<b>Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	4,11	LO # 1, 5, 7,9 and 10
	<b>Assignments</b>	5	10% (10)	1,3, 6,10, 12	LO # 2,3, 4, 6 and 8
	<b>Projects / Lab.</b>				
	<b>Report</b>	1	10% (10)	13	LO # 11
<b>Summative assessment</b>	<b>Midterm Exam</b>	1 hr	10% (10)	7	LO # 1-7
	<b>Final Exam</b>	3 hr	60% (60)	16	All
<b>Total assessment</b>			100% (100 Marks)		

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Linear Algebra / جبر خطي		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	UoMCS105		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	2
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	منى محسن محمد علي فرح حازم محمد	e-mail	<a href="mailto:Monamoh74@uomosul.edu.iq">Monamoh74@uomosul.edu.iq</a> <a href="mailto:farahalkadoo@uomosul.edu.iq">farahalkadoo@uomosul.edu.iq</a>
Module Leader's Acad. Title	أستاذ مساعد مدرس	Module Leader's Qualification	Ph.D M.SC.
Module Tutor		e-mail	
Peer Reviewer Name	منى محسن محمد علي فرح حازم محمد	e-mail	<a href="mailto:Monamoh74@uomosul.edu.iq">Monamoh74@uomosul.edu.iq</a> <a href="mailto:farahalkadoo@uomosul.edu.iq">farahalkadoo@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0
Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem)	73	Structured SWL (h/w)	5
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعياً	
Unstructured SWL (h/sem)	52	Unstructured SWL (h/w)	3.5
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعياً	
Total SWL (h/sem)	130		
الحمل الدراسي الكلي للطالب خلال الفصل			

Module Information			
معلومات المادة الدراسية			
Module Title	English Language 1 اللغة الإنكليزية ١		Module Delivery
Module Type	Support		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS106		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Zainab Qusay Ahmed Taqi	e-mail	Zainab.q@uomosul.edu.iq
Module Leader's Acad. Title	Asst. lecturer	Module Leader's Qualification	MSc.
Module Tutor		e-mail	
Peer Reviewer Name	Rayan Yousif Jacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Programming Fundamentals اساسيات البرمجة		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 checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS101		
ECTS Credits	6		
SWL (hr/sem)	150		

<b>Module Level</b>	UGI-1	<b>Semester of Delivery</b>	1
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Sedeeq Hasan Albanaa Al-khazraji	<b>e-mail</b>	sedeeq.alkhazraji@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Assistant Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	Amera Istiqlal Badran	<b>e-mail</b>	amera_istiqlal@uomosul.edu.iq
<b>Peer Reviewer Name</b>	Rayan Yousif Yacob	<b>e-mail</b>	rayan@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>Logic Circuits Design</b> تصميم الدوائر المنطقية		<b>Module Delivery</b>
<b>Module Type</b>	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
<b>Module Code</b>	UoMCS102		
<b>ECTS Credits</b>	6		
<b>SWL (hr/sem)</b>	150		
<b>Module Level</b>	UG I - 1	<b>Semester of Delivery</b>	One (1)
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Dr. Amera Istiqlal Badran	<b>e-mail</b>	amera_istiqlal@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	None	<b>e-mail</b>	None
<b>Peer Reviewer Name</b>	Rayan Yousif Yacob	<b>e-mail</b>	rayan@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0



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## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	System Analysis and Design النظام تحليل وتصميم		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoMCS103		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI-1	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Ban Ghanim	e-mail	ban_ghanm2019@uomosl.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Master
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	Discrete Mathematics رياضيات متقطعة	Module Delivery

Module Type	Basic			<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS104			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	UGI	Semester of Delivery		1
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Dr. Omar Muayad Abdullah		e-mail	omaraldewachy@uomosul.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification		Ph.D.
Module Tutor	Name (if available)		e-mail	E-mail
Peer Reviewer Name	Rayan Yousif Yacob		e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date			Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Linear Algebra / جبر خطي			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	UoMCS105			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	1	Semester of Delivery		2
Administering Department	Type Dept. Code	College	Type College Code	
Module Leader	منى محسن مجد علي فرح حازم مجد		e-mail	<a href="mailto:Monamoh74@uomosul.edu.iq">Monamoh74@uomosul.edu.iq</a> <a href="mailto:farahalkadoo@uomosul.edu.iq">farahalkadoo@uomosul.edu.iq</a>
Module Leader's Acad. Title	أستاذ مساعد مدرس		Module Leader's Qualification	Ph.D M.SC.

<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	منى محسن محمد علي فرح حازم محمد	<b>e-mail</b>	<a href="mailto:Monamoh74@uomosul.edu.iq">Monamoh74@uomosul.edu.iq</a> <a href="mailto:farahalkadoo@uomosul.edu.iq">farahalkadoo@uomosul.edu.iq</a>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

Module Information			
معلومات المادة الدراسية			
Module Title	<b>English Language 1</b> اللغة الإنكليزية ١		Module Delivery
Module Type	Support		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS106		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Zainab Qusay Ahmed Taqi	e-mail	Zainab.q@uomosul.edu.iq
Module Leader's Acad. Title	Asst. lecturer	Module Leader's Qualification	MSc.
Module Tutor		e-mail	
Peer Reviewer Name	Rayan Yousif Yacob	e-mail	rayan@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Advanced Programming</b> برمجة متقدمة		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	UoMCS107		
ECTS Credits	6		
SWL (hr/sem)	150		

Module Level	1	Semester of Delivery	2
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Sedeeq Al-khazraji	e-mail	Sedeeq.Alkhazraji@uomosul.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Ahmed Salih Hasan	e-mail	<a href="mailto:Ahmed_salih_h@uomosul.edu.iq">Ahmed_salih_h@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Principles of Computer Organization مبادئ تركيب الحاسوب		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	UoMCS108		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI 1	Semester of Delivery	2
Administering Department	Computer sciences	College	Computer sciences and mathematics
Module Leader	Alyaa M. Abdul Majeed Haleem	e-mail	<a href="mailto:alyaahaleem@uomosul.edu.iq">alyaahaleem@uomosul.edu.iq</a>
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	MSc.
Module Tutor	Dhafer Sami Hammadi Marwa jassim Mohammad	e-mail	<a href="mailto:dhafer_un@uomosul.edu.iq">dhafer_un@uomosul.edu.iq</a> <a href="mailto:marwamaster@uomosul.edu.iq">marwamaster@uomosul.edu.iq</a>
Peer Reviewer Name	Ahmed salih hasan	e-mail	<a href="mailto:Ahmed_salih_h@uomosul.edu.iq">Ahmed_salih_h@uomosul.edu.iq</a>

Scientific Committee Approval Date		Version Number	1.0
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## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Computation Theory</b> النظرية الاحتمالية		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UOMCS109		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI-1	Semester of Delivery	2
Administering Department	Computer Science	College	College of Computer Science and Math.
Module Leader	Mohammed Chachan Younis محمد جاجان يونس	e-mail	mohammed.c.y@uomosul.edu.iq
Module Leader's Acad. Title	Associate Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Ahmed Salih Hasan	e-mail	ahmed_salih_h@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>Web Programming</b> برمجة الانترنت		<b>Module Delivery</b>
<b>Module Type</b>	<b>Basic</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
<b>Module Code</b>	<b>UoMCS110</b>		
<b>ECTS Credits</b>	<b>5</b>		
<b>SWL (hr/sem)</b>	<b>125</b>		
<b>Module Level</b>	UG I - 1	<b>Semester of Delivery</b>	2
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	م. عائشة صديق شاهين	<b>e-mail</b>	Aeeshashaheen_1965@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	lecturer	<b>Module Leader's Qualification</b>	MSc.
<b>Module Tutor</b>	منتھی طارق	<b>e-mail</b>	muntahatariq@uomosul.edu.iq
<b>Peer Reviewer Name</b>	Ahmed Salih Hasan	<b>e-mail</b>	ahmed_salih_h@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Principles of Statistics مبادئ الاحصاء		Module Delivery
Module Type	S		<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	UoMCS111		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGI - 1	Semester of Delivery	
Administering Department		College	
Module Leader	Khairy Badal Rasheed	e-mail	Khairy-stat@uomosul.edu.iq
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Msc.
Module Tutor	Shaimaa Waleed Mahmood	e-mail	shaimaa.waleed@uomosul.edu.iq
Peer Reviewer Name	Ahmed Salih Hasan	e-mail	<a href="mailto:Ahmed_salih_h@uomosul.edu.iq">Ahmed_salih_h@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	Computer Skills مهارات الحاسوب	Module Delivery
Module Type	Elective	<input checked="" type="checkbox"/> Theory



Module Code	UoMCS112		<input checked="" type="checkbox"/> Lecture
ECTS Credits	2		<input checked="" type="checkbox"/> Lab
SWL (hr/sem)	50		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGI -1	Semester of Delivery	2
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Dr. Basim Mohammed Mahmood	e-mail	bmahmood@uomosul.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Ahmed Salih Hasan	e-mail	ahmed_salih_h@uomosul.edu.iq
Scientific Committee Approval Date	17/06/2023	Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Digital Image Processing</b> معالجة الصور الرقمية		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory
Module Code	UoMCS401		<input checked="" type="checkbox"/> Lecture
ECTS Credits	6		<input checked="" type="checkbox"/> Lab
SWL (hr/sem)	150		<input type="checkbox"/> Tutorial
			<input checked="" type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	UGIV-4	Semester of Delivery	7
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Dr. Zohair Al-Ameen	e-mail	qizohair@uomosul.edu.iq

<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Melad jader	<b>e-mail</b>	<a href="mailto:meladjader@uomosul.edu.iq">meladjader@uomosul.edu.iq</a>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Networks شبكات الحاسوب		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoMCS402		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	4	Semester of Delivery	7
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Name: Ahmed Salih Hasan	e-mail	E-mail: ahmed_salih_hasan@uomoul.edu.iq
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Master
Module Tutor		e-mail	
Peer Reviewer Name	Melad jader	e-mail	meladjader@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information	
معلومات المادة الدراسية	

<b>Module Title</b>	<b>Graduation Project (1)</b> مشروع التخرج ١		<b>Module Delivery</b>	
<b>Module Type</b>	<b>Core</b>		<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	
<b>Module Code</b>	<b>UoMCS403</b>			
<b>ECTS Credits</b>	<b>6</b>			
<b>SWL (hr/sem)</b>	<b>150</b>			
<b>Module Level</b>	UGIV - 4	<b>Semester of Delivery</b>	7	
<b>Administering Department</b>	Computer Science	<b>College</b>	College of Computer Science and Mathematics	
<b>Module Leader</b>	Dr. Basim Mohammed Mahmood	<b>e-mail</b>	<a href="mailto:bmahmood@uomosul.edu.iq">bmahmood@uomosul.edu.iq</a>	
<b>Module Leader's Acad. Title</b>	Associate Professor	<b>Module Leader's Qualification</b>	Ph.D.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	Melad jader	<b>e-mail</b>	<a href="mailto:meladjader@uomosul.edu.iq">meladjader@uomosul.edu.iq</a>	
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0	

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Distributed Systems أنظمة موزعة		Module Delivery
Module Type	Base		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoMCS404		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGIV	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Rawaa Putros Polos	e-mail	rawa_qasha@uomosul.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Melad jader	e-mail	<a href="mailto:meladjader@uomosul.edu.iq">meladjader@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	<b>Games Design</b>	Module Delivery

	تصميم الالعاب		
<b>Module Type</b>	Support		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
<b>Module Code</b>	<b>UoMCS405</b>		
<b>ECTS Credits</b>	<b>5</b>		
<b>SWL (hr/sem)</b>	<b>125</b>		
<b>Module Level</b>	UGIV -4	<b>Semester of Delivery</b>	<b>7</b>
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Zeyad Abd-Algfoor Hasan	<b>e-mail</b>	<b>drzeyad@uomosul.edu.iq</b>
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	<b>Ph.D.</b>
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Melad jader	<b>e-mail</b>	<b>meladjader@uomosul.edu.iq</b>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	<b>1.0</b>

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Academic Writing</b> الكتابة الاكاديمية		Module Delivery
Module Type	<b>Elective</b>		<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	<b>UoMCS406</b>		
ECTS Credits	<b>2</b>		
SWL (hr/sem)	<b>50</b>		
Module Level	UGIV - 4	Semester of Delivery	7
Administering Department	Computer Science	College	College of Computer Science and Mathematics
Module Leader	Dr. Basim Mohammed Mahmood	e-mail	<a href="mailto:bmahmood@uomosul.edu.iq">bmahmood@uomosul.edu.iq</a>
Module Leader's Acad. Title	Associate Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Melad jader	e-mail	<a href="mailto:meladjader@uomosul.edu.iq">meladjader@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	Computer Networks Lab	Module Delivery

	مختبر شبكات		
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS407		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UG IV - 4	Semester of Delivery	8
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Ahmed Salih Hasan	e-mail	ahmed_salih_hasan@uomoul.edu.iq
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Master
Module Tutor	Name (if available)	e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Network Security امنية الشبكات		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoMCS408		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGIV (4)	Semester of Delivery	8



<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Mafaz Mohsin Khalil	<b>e-mail</b>	mafazmhalanezi@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Professor	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	Name (if available)	<b>e-mail</b>	E-mail
<b>Peer Reviewer Name</b>		<b>e-mail</b>	E-mail
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Graduation Project (2)</b> مشروع تخرج ٢		Module Delivery
Module Type	Core		<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	UoMCS409		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGIV - 4	Semester of Delivery	8
Administering Department	Computer Science	College	College of Computer Science and Mathematics
Module Leader	Dr. Basim Mohammed Mahmood	e-mail	<a href="mailto:bmahmood@uomosul.edu.iq">bmahmood@uomosul.edu.iq</a>
Module Leader's Acad. Title	Associate Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	<a href="mailto:meladjader@uomosul.edu.iq">meladjader@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information	
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معلومات المادة الدراسية			
Module Title	<b>Data Science</b> علم البيانات		Module Delivery
Module Type	Basic		<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	UoMCS410		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGVI - 4	Semester of Delivery	
Administering Department	Computer Science	College	College of Computer Science and Mathematics
Module Leader	Dr. Basim Mohammed Mahmood	e-mail	bmahmood@uomosul.edu.iq
Module Leader's Acad. Title	Associate Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Ban ghanim	e-mail	Ban_ghanm2019@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Robotics / علم الروبوتات</b>		Module Delivery
Module Type	Support		<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	UoMCS411		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGIV	Semester of Delivery	
Administering Department	Computer Science	College	Compuyer Science and Mathematics
Module Leader	Haleema Essa Solayman	e-mail	Haleema_essa@uom.edu.iq

<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Ban ghanim	<b>e-mail</b>	Ban_ghanm2019@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>IT Project Management</b> إدارة مشاريع تكنولوجيا المعلومات		<b>Module Delivery</b>
<b>Module Type</b>	Elective		<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
<b>Module Code</b>	UoMCS412		
<b>ECTS Credits</b>	2		
<b>SWL (hr/sem)</b>	50		
<b>Module Level</b>	UGIV - 4	<b>Semester of Delivery</b>	
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Zeyad Abd-Algfoor Hasan	<b>e-mail</b>	drzeyad@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	not available	<b>e-mail</b>	E-mail
<b>Peer Reviewer Name</b>	Ban ghanim	<b>e-mail</b>	Ban_ghanm2019@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Operating Systems Concepts</b> مفاهيم نظم التشغيل		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	UoMCS301		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGIII	Semester of Delivery	Five
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Nadia Tarik Saleh	e-mail	<a href="mailto:nadia_tarik@uomosul.edu.iq">nadia_tarik@uomosul.edu.iq</a>
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Haleema Essa Solayman	e-mail	<a href="mailto:Haleema_essa@uom.edu.iq">Haleema_essa@uom.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	<b>Introduction to Artificial Intelligence</b> مقدمة في الذكاء الاصطناعي	Module Delivery
Module Type	Core	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab
Module Code	UOMCS302	

ECTS Credits	6		<input type="checkbox"/> Tutorial	
SWL (hr/sem)	150		<input checked="" type="checkbox"/> Practical	
			<input type="checkbox"/> Seminar	
Module Level	UGIII	Semester of Delivery	Five	
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Dr. Baydaa Ibraheem Khaleel	e-mail	<a href="mailto:baydaabraheem@uomosul.edu.iq">baydaabraheem@uomosul.edu.iq</a>	
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.	
Module Tutor	Hanaa Mohammed Osman	e-mail	Hanaosman@uomosul.edu.iq	
Peer Reviewer Name	Haleema Essa Solyman	e-mail	<a href="mailto:haleema_essa@uom.edu.iq">haleema_essa@uom.edu.iq</a>	
Scientific Committee Approval Date		Version Number	1.0	

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	<b>Cryptography</b> علم التشفير		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 checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	UoMCS303			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	UGIII	Semester of Delivery	Five	
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Dr. Saja J. Mohammed	e-mail	<a href="mailto:Sj_alkdo@uomosul.edu.iq">Sj_alkdo@uomosul.edu.iq</a>	
Module Leader's Acad. Title	Assist. Prof.	Module Leader's Qualification	Ph.D.	
Module Tutor	Sameera Abbas Fadhel	e-mail	<a href="mailto:sameeraabbasfadhel@uomosul.edu.iq">sameeraabbasfadhel@uomosul.edu.iq</a>	

Peer Reviewer Name	Haleema Essa Solayman	e-mail	<a href="mailto:Haleema_essa@uom.edu.iq">Haleema_essa@uom.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Algorithms Design and Analysis</b> تحليل وتصميم الخوارزميات		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS304		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGIII	Semester of Delivery	Five
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Ruba Talal Ibrahim	e-mail	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Haleema Essa Solayman	e-mail	<a href="mailto:Haleema_essa@uom.edu.iq">Haleema_essa@uom.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Computer Graphics</b> الرسم بالحاسوب		Module Delivery
Module Type	<b>Suport</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>UoMCS305</b>		
ECTS Credits	<b>5</b>		
SWL (hr/sem)	<b>125</b>		
Module Level	UGIII	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Yusra Faisal Mohammad	e-mail	yusrafaisalcs@uomosul.edu.iq
Module Leader's Acad. Title	Assist Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Haleema Essa Solayman	e-mail	<a href="mailto:Haleema_essa@uom.edu.iq">Haleema_essa@uom.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	<b>Democracy</b> ديمقراطية	Module Delivery



Module Type	Elective			<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	UoMCS306			
ECTS Credits	2			
SWL (hr/sem)	50			
Module Level	UGIII	Semester of Delivery		Five
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	م.م. عمر دريد ذنون		e-mail	Omer.thnon@uomusul.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification		M.A.
Module Tutor	Name (if available)		e-mail	E-mail
Peer Reviewer Name	Haleema Essa solayman	e-mail	<a href="mailto:Haleema_essa@uom.edu.iq">Haleema_essa@uom.edu.iq</a>	
Scientific Committee Approval Date		Version Number	1.0	

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Operating Systems نظم التشغيل			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	UoMCS307			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	UGIII	Semester of Delivery		6
Administering Department	Computer Science	College	Computer Science and Mathematics	

<b>Module Leader</b>	Nadia Tarik Saleh	<b>e-mail</b>	<a href="mailto:nadia_tarik@uomosul.edu.iq">nadia_tarik@uomosul.edu.iq</a>
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	Name (if available)	<b>e-mail</b>	E-mail
<b>Peer Reviewer Name</b>	عائشة صديق	<b>e-mail</b>	Aeeshashaheen_1965@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>Information Security</b> أمنية معلومات		<b>Module Delivery</b>
<b>Module Type</b>	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
<b>Module Code</b>	UoMCS308		
<b>ECTS Credits</b>	٦		
<b>SWL (hr/sem)</b>	150		
<b>Module Level</b>	UGIII	<b>Semester of Delivery</b>	6
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Dr. yaseen Hikmat Ismail	<b>e-mail</b>	yaseen-hikmat@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Professor Ass.	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	Muna Jaffer sedeeq	<b>e-mail</b>	muna.jaffer@uomosul.edu.iq
<b>Peer Reviewer Name</b>	عائشة صديق	<b>e-mail</b>	aeeshashaheen_1965@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Intelligent Techniques تقنيات ذكائية		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	UoMCS309		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGIII	Semester of Delivery	
Administering Department		College	
Module Leader	Dr. Fawziya Mahmood Ramo	e-mail	fawziyaramo@uomosul.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	عائشة صديق	e-mail	aeeshashaheen_1965@uomosul.edu.iq
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	Multimedia Technology تكنولوجيا الوسائط المتعددة	Module Delivery

Module Type	Basic		<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	UoMCS310			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	UGIII	Semester of Delivery		6
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Dr. Zohair Al-Ameen		e-mail	qizohair@uomosul.edu.iq
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification		Ph.D.
Module Tutor			e-mail	
Peer Reviewer Name	عائشة صديق	e-mail	Aeeshashaheen_1965@uomosul.edu.iq	
Scientific Committee Approval Date			Version Number	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	<b>Mobile Applications Programming</b> برمجة تطبيقات المحمول		Module Delivery	
Module Type	Support		<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	UoMCS311			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	UGIII - 3	Semester of Delivery		6
Administering Department	Computer Science	College	College of Computer Science and	

			Mathematics
<b>Module Leader</b>	Dr. Basim Mohammed Mahmood	<b>e-mail</b>	bmahmood@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Associate Professor	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	عائشة صديق	<b>e-mail</b>	aeeshashaheen_1965@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
<b>Module Title</b>	<b>Arabic Language</b> اللغة العربية		<b>Module Delivery</b>
<b>Module Type</b>	<b>Elective</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
<b>Module Code</b>	<b>UoM3CS312</b>		
<b>ECTS Credits</b>	<b>2</b>		
<b>SWL (hr/sem)</b>	<b>50</b>		
<b>Module Level</b>	UGIII-3	<b>Semester of Delivery</b>	6
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	م.م. مروة عدنان اسماعيل	<b>e-mail</b>	<a href="mailto:Loversmewa80@gmail.com">Loversmewa80@gmail.com</a>
<b>Module Leader's Acad. Title</b>	Assist. Lecture	<b>Module Leader's Qualification</b>	MSc.
<b>Module Tutor</b>	NA	<b>e-mail</b>	NA
<b>Peer Reviewer Name</b>	عائشة صديق	<b>e-mail</b>	Aeeshashaheen_1965@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Object Oriented Programming البرمجة الكيانية		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 checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS201		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGII	Semester of Delivery	Three
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	م. زيد عبد الاله منذر	e-mail	zaidabdulelah@uomosul.edu.iq
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Master
Module Tutor	م.م. ياسر علي محمود	e-mail	yaser.ali@uomosul.edu.iq
Peer Reviewer Name	Ruba Talal	e-mail	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Database Fundamentals</b> اساسيات قواعد البيانات		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	UoMCS202		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGII-2	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Ammar Thaher Yaseen	e-mail	ammarthaher@uomosul.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Maison Khadir Husain	e-mail	<a href="mailto:maisonkhadir@uomosul.edu.iq">maisonkhadir@uomosul.edu.iq</a>
Peer Reviewer Name	RubaTalal	e-mail	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	<b>Microprocessors</b> معالجات	Module Delivery
Module Type	Core	<input checked="" type="checkbox"/> Theory

Module Code	UoMCS203		<input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	UGII	Semester of Delivery	Three	
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Dr.Wael Wadullah Mahmood	e-mail	wael.hadeed@uomosul.edu.iq	
Module Leader's Acad. Title	Lec.	Module Leader's Qualification	Ph.D.	
Module Tutor		e-mail		
Peer Reviewer Name	Ruba Talal	e-mail	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>	
Scientific Committee Approval Date		Version Number	1.0	

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Data Structures هياكل البيانات		Module Delivery	
Module Type	B		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	UoMCS204			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	UGII-2	Semester of Delivery	3	
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	Ban Sharief Mustafa	e-mail	Banmustafa66@uomosul.edu.iq	



<b>Module Leader's Acad. Title</b>	Associate Professor	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Ruba Talal	<b>e-mail</b>	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>Computational Statistics</b> الإحصاء الحاسوبي		<b>Module Delivery</b>
<b>Module Type</b>	<b>Support</b>		<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
<b>Module Code</b>	<b>UoMCS205</b>		
<b>ECTS Credits</b>	<b>5</b>		
<b>SWL (hr/sem)</b>	<b>125</b>		
<b>Module Level</b>	UGII	<b>Semester of Delivery</b>	3
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Dr. Zohair Al-Ameen	<b>e-mail</b>	<a href="mailto:gizohair@uomosul.edu.iq">gizohair@uomosul.edu.iq</a>
<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Ruba Talal	<b>e-mail</b>	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Human Rights</b> حقوق الانسان		Module Delivery
Module Type	Elective		<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	UoMCS206		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGII	Semester of Delivery	Three
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	م.م. عمر دريد ذنون	e-mail	Omer.thnon@uomusul.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	M.A.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Ruba Talal	e-mail	<a href="mailto:rubatalal@uomosul.edu.iq">rubatalal@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information		
معلومات المادة الدراسية		
Module Title	<b>Visual Programming</b> البرمجة المرئية	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 checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	UoMCS207			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	UGII	Semester of Delivery	Four	
Administering Department	Computer Science	College	Computer Science and Mathematics	
Module Leader	م. زيد عبد الاله منذر	e-mail	zaidabdulah@uomosul.edu.iq	
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Master	
Module Tutor	م.م. ياسر علي محمود	e-mail	yaser.ali@uomosul.edu.iq	
Peer Reviewer Name	Rana Muayad Hasan	e-mail	<a href="mailto:Ranamuayad@uomosul.edu.iq">Ranamuayad@uomosul.edu.iq</a>	
Scientific Committee Approval Date		Version Number	1.0	

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Architecture معمارية الحاسوب		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS208		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGII	Semester of Delivery	4
Administering Department	Computer Science	College	Computer Science and Mathematics

<b>Module Leader</b>	Dr.Wael Wadullah Mahmood	<b>e-mail</b>	wael.hadeed@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Lec.	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>	Name (if available)	<b>e-mail</b>	E-mail
<b>Peer Reviewer Name</b>	Rana Muayad Hasan	<b>e-mail</b>	ranamuayad@uomosul.edu.iq
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	<b>Distributed Database</b> قواعد البيانات الموزعة		<b>Module Delivery</b>
<b>Module Type</b>	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
<b>Module Code</b>	UoMCS209		
<b>ECTS Credits</b>	6		
<b>SWL (hr/sem)</b>	150		
<b>Module Level</b>	UGII	<b>Semester of Delivery</b>	Four (4)
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics
<b>Module Leader</b>	Rayan Yousif Yacob Alkhayat	<b>e-mail</b>	rayan@uomosul.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	Rana Muayad Hasan	<b>e-mail</b>	<a href="mailto:ranamuayad@uomosul.edu.iq">ranamuayad@uomosul.edu.iq</a>
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Compilers</b> مترجمات		Module Delivery
Module Type	Basic		<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	UoMCS210		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGII	Semester of Delivery	4
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Dr. Ielaf O. Abdul-Majjed	e-mail	<a href="mailto:ie_osamah@uomosul.edu.iq">ie_osamah@uomosul.edu.iq</a>
Module Leader's Acad. Title	Assist Prof	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Rana Muayad Hasan	e-mail	<a href="mailto:ranamuayad@uomosul.edu.iq">ranamuayad@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information	
معلومات المادة الدراسية	

<b>Module Title</b>	<b>Software Engineering</b> هندسة البرمجيات		<b>Module Delivery</b>	
<b>Module Type</b>	<b>Support</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar	
<b>Module Code</b>	<b>UoMCS211</b>			
<b>ECTS Credits</b>	<b>5</b>			
<b>SWL (hr/sem)</b>	<b>125</b>			
<b>Module Level</b>	UGII	<b>Semester of Delivery</b>	4	
<b>Administering Department</b>	Computer Science	<b>College</b>	Computer Science and Mathematics	
<b>Module Leader</b>	Dr. Shayma Mustafa Mohi-Aldeen	<b>e-mail</b>	shaymamustafa@uomosul.edu.iq	
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph.D.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	Rana Muayad Hasan	<b>e-mail</b>	Ranamuayad@uomosul.edu.iq	
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0	

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>English Language 2</b> اللغة الإنكليزية ٢		Module Delivery
Module Type	Elective		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UoMCS212		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGII	Semester of Delivery	
Administering Department	Computer Science	College	Computer Science and Mathematics
Module Leader	Zainab Qusay Ahmed Taqi	e-mail	Zainab.q@uomosul.edu.iq
Module Leader's Acad. Title	Asst. lecturer	Module Leader's Qualification	MSc.
Module Tutor		e-mail	
Peer Reviewer Name	Rana Muayad Hasan	e-mail	<a href="mailto:ranamuayad@uomosul.edu.iq">ranamuayad@uomosul.edu.iq</a>
Scientific Committee Approval Date		Version Number	1.0