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

Academic Program Description Form for Colleges and Institutes Academic Year

University: Shatt Al-Arab College/Institute: Engineering Scientific Department: Civil

Name of Head of Department:

Date of Form Completion: 01/09/2024

Signature Signature

Asst. Lecturer Nabeel Najm Abdullah Name of Scientific Assistant: Dr. Jawad Kadhim

Reviewed by:

Quality Assurance and University Performance Division Name of Division Director: Dr. Jasem Mohsen Yasser

Signature:

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	F	П	Modu	le Delivery		
Module Type		Core			☐ Theory	
Module Code		CE214			☐ Lecture	
ECTS Credits		5			☐ Lab	
SWL (hr/sem)		75			☐ Tutorial☐ Practical☐	
			T		☐ Seminar	
Module Level		2	Semester o	Semester of Delivery		1,2
Administering Dep	partment	Type Dept. Code	College	Type C	ollege Code	
Module Leader	Qasim Moham	imed	e-mail	E-mail		
Module Leader's A	Acad. Title	Ass. Lecturer	Module Lea	Module Leader's Qualification M.S		M.Sc.
Module Tutor	Name (if available)		e-mail	E-mail		
Peer Reviewer Name N		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/09/2024	Version Nu	mber	1.0	

Relation with other Modules	
العلاقة مع المواد الدراسية الأخرى	

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	
Modu	le Aims, Learning Outcomes and Indicative C	ontents	
	هداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادة	,	
Module Aims أهداف المادة الدر اسية	 To develop problem solving skills and understand the Mechanics in civil engineering. This course deals with the basic concepts This is the basic subject for all electrical and 4- To understand viscous fluid flow problems. 	of Fluid Mecha	nics.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 To understand general principles of fluid To understand incompressible and compressible and compressible and open To understand flow through pipes and open 	essible flow	
Indicative Contents المحتوياتالإرشادة	This module covers a wide range of topics of flooffer basic knowledge and foundations appengineering problems. This module introconservation (mass, momentum and energy) law (ideal) flow, inviscid compressible flow and viscalso complemented by lab classes and tutorials	licable to vari duces fundaments of fluid flow	ious civil ental of potential

Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
	The main strategy that will be adopted in delivering this module is to		
Stratogics	encourage students' participation in the exercises, while at the same time		
Strategies	refining and expanding their critical thinking skills. This will be achieved		
	through classes, and interactive tutorials.		

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ 15 اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	128	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب اسبو عيا	9
Unstructured SWL (h/sem) الحى الدر اسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدر اسي غير المنتظم للطالب اسبوعيا	6.46
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	225		

Module Evaluation

تقييم المادة الدراسية

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)		
Formative	Assignments	2	10% (10)		
assessment	Projects / Lab.	1	10% (10)		
	Report	1	10% (10)		
Summative	Midterm Exam	2 hr	10% (10)		
assessment	Final Exam	2hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	Applications of Bernoulli's Equation			
Week 2	Applications of Bernoulli's Equation			
Week 3	Applications of Bernoulli's Equation			
Week 4	Measurement of Flow			
Week 5	Measurement of Flow			
Week 6	Momentum equation			
Week 7	Laminar and turbulent flow			
Week 8	Laminar and turbulent flow			
Week 9	Flow through the pipes and the primary and secondary losses in energy			
Week 10	Flow through the pipes and the primary and secondary losses in energy			
Week 11	Flow through the pipes and the primary and secondary losses in energy			
Week 12	Flow through the pipes and the primary and secondary losses in energy			

Week 13	Flow in open channels
Week 14	Flow in open channels
Week 15	Flow in open channels
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر			
	Material Covered		
Week 1	Some Physical Properties of Fluids		
Week 2	Fluid Pressure at a Point		
Week 3	Simple Manometers, Differential Manometers		
Week 4	Hydrostatic Forces on Submerged Surfaces		
Week 5	Impulse Momentum Equation		
Week 6	Types of Resistances and Losses of Energy in Pipes		
Week 7	Flow Measuring Devices		

Learning and Teaching Resources مصادر التعلم والتدريس			
Text Library?			
Required Texts	Fluid Mechanics, Streeter	Yes	
Recommended Texts	Fluid Mechanics, White, F.M., 2016	No	
Websites			

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امة از	90 - 100	Outstanding Performance	
6	B - Very Good	ج د جدا	80 - 89	Above average with some errors	
Success Group (50 - 100)	C - Good	جد	70 - 79	Sound work with notable errors	
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required	

Note: Marks 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.