

ماجستير في الهندسة المدنية

التخصصات المتاحة حاليا هي:

- هندسة الإنشاءات
- هندسة المواصلات
- هندسة التشييد

يمكن للطلاب التحويل من اي تخصص الى آخر ومن اي مسار الى آخر (رسالة او بدون رسالة) بعد الفصل الاول من الدراسة وذلك بتقديم طلب الى رئيس القسم يبدي رغبته بالانتقال الى تخصص آخر او مسار آخر.

- عدد إجمالي المقررات في البرنامج:
- مسار الرسالة: 33 ساعة معتمدة موزعة على 24 ساعة معتمدة مواد + 9 ساعات رسالة و موزعة حسب الفصول الدراسية كالتالي: (مرفق قائمة بالمواد الاجبارية والمواد الاختيارية)

Year	Semester	Course	Credits	Remarks
1	Fall	Core Course	3	
		Core Course	3	
		Elective Course	3	
		Total	9	
	Spring	Core Course	3	
		Elective Course	3	Specialization
		Elective Course	3	Specialization
		Seminar Course	0	
		Total	9	Thesis proposal approval
2	Fall	Elective Course	3	Specialization
		Thesis	3	
		Total	12	
	Spring	Elective Course	3	Specialization
		Thesis	6	IP
		Total	3	

- مسار المشروع (بدون رسالة): 42 ساعة معتمدة موزعة حسب الفصول الدراسية كالتالي:

Year	Semester	Course	Credits	Remarks
1	Fall	Core Course	3	
		Core Course	3	
		Core Course	3	

		Elective Course	3	
		Seminar	0	
		Total	12	
	Spring	Core Course	3	
		Elective Course	3	Specialization
		Elective Course	3	Specialization
		Elective Course	3	
		Total	12	Project Proposal Approval
2	Fall	Elective	3	Specialization
		Elective	3	Specialization
		Elective	3	Specialization
		Seminar	0	
		Total	9	
	Spring	Elective	3	Specialization
		Elective	3	Specialization
		Engineering Design Project	3	
		Total	9	

المواد الاجبارية والاختيارية

(Core Courses) المواد الاجبارية لكافة التخصصات

Course code	Course name	Cr.
MATH 505	Advanced Engineering Mathematics	3
MATH 506	Advanced Engineering Statistics	3
CIVE 507	Computer Application in Civil Engineering	3
CIVE 599	Seminar	0
CIVE 598	Engineering Design Project (Non-Thesis Program only)	3
CIVE 600	Research Thesis (Thesis-Program only)	9

المواد الختيارية لكافة التخصصات

• هندسة الانشاءات (Structural Engineering)

المواد الاختيارية (Elective Courses)

Course code	Course name	Cr.
CIVE 510	Advanced Reinforced Concrete	3
CIVE 511	Evaluation And Testing Of Concrete Structures	3
CIVE 512	Concrete Materials	3
CIVE 513	Advanced Structural Mechanics	3
CIVE 514	Advanced Structural Analysis	3
CIVE 515	Earthquake Engineering	3
CIVE 516	Behaviour And Design Of Steel Structures	3
CIVE 517	Finite Elements Methods	3
CIVE 518	Pre-Stressed Concrete	3
CIVE 519	Special Topics In Structural And Material Engineering	3

• تخصص هندسة المواصلات (Transportation Engineering)
المواد الاختيارية (Elective Courses)

Course code	Course name	Cr.
CIVE 570	Advanced Transportation Engineering	3
CIVE 571	Pavement Structures And Design	3
CIVE 572	Urban Transportation Planning	3
CIVE 573	Advanced Traffic Engineering	3
CIVE 574	Geometric Design of Highways	3
CIVE 575	Transportation System Management	3
CIVE 576	Public Transportation Systems	3
CIVE 577	Special Topics In Transportation Engineering	3

• تخصص هندسة التشييد (Construction Engineering and Management)
المواد الاختيارية (Elective Courses)

Course code	Course name	Cr.
CIVE 580	Engineering Quality Management	3
CIVE 581	Construction Engineering, Equipment, and Methods	3
CIVE 582	Advanced Project Management	3
CIVE 583	Construction Liability and Contracts	3
CIVE 584	Construction Cost Estimating and Bidding	3
CIVE 585	Techniques of Project Planning and Control	3
CIVE 586	Construction Cost Engineering	3
CIVE 587	Operation Management	3
CIVE 588	Construction of Building	3
CIVE 589	Special Topics in Construction Engineering	3