

Course Description Form

1. Course Name: Traffic Engineering					
2. Course Code: CIV055					
3. Semester / Year: First semester/2025					
4. Description Preparation Date: 3/09/2025					
5. Available Attendance Forms: Bologna system attendance form					
6. Number of Credit Hours (Total) / Number of Units (Total): SSWL 93+ USSWL 32; ECTS 5					
7. Course administrator's name (mention all, if more than one name)					
Name: Sally Muwafaq Talib					
Email: sallay.muwafaq@uowa.edu.iq					
8. Course Objectives					
Course Objectives		To introduce students to cover the technical details of traffic characteristics, elements of roads and highways, and analysis and design the highway section according vehicle operation.			
9. Teaching and Learning Strategies					
Strategy		A combination of lectures, example and field work are used to explain the principles of traffic engineering and to develop the students' understanding of the material and its relevance to Engineering Problems. Students are expected to undertake all the tutorial sheets issued throughout the module in preparation for the relevant example classes and to broaden their understanding of engineering problems. Successful completion of all the tutorial sheets will help the students towards meeting the learning outcomes.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	4	2, 6	Introduction to traffic engineering	In person	HM & Quizzes
2	4	2, 6	Road user and vehicle characteristics-part1	In person	HM & Quizzes
3	4	2, 6	Road user and vehicle characteristics-part2	In person	HM & Quizzes
4	4	2, 6	Road user and vehicle characteristics-part3	In person	HM & Quizzes
5	4	2, 6	Roadways and their geometric characteristics-part 1	In person	HM & Quizzes
6	4	2, 6	Roadways and their geometric characteristics-part2	In person	HM & Quizzes
7	4	2, 6	Roadways and their geometric characteristics-part3	In person	HM & Quizzes
8	4	2, 6	Roadways and their geometric characteristics-part4	In person	HM & Quizzes
9	4	2, 6	Traffic Flow characteristics	In person	HM & Quizzes
10	4	2, 6	Analysis of highway sections	In person	HM & Quizzes
11	4	2, 6	Intersections-part1	In person	HM & Quizzes
12	4	2, 6	Intersections-part2	In person	HM & Quizzes
13	4	2, 6	Signalized intersection-part1	In person	HM & Quizzes
14	4	2, 6	Signalized intersection-part2	In person	HM & Quizzes
15	4	2, 6	Preparatory week before the final Exam	In person	HM & Quizzes
16	4	2, 6	Final exam	In person	HM & Quizzes

11. Course Evaluation

Mid-term exam	10%
HWs	5%
Quizzes	15%
Seminar	5 %
Attendance sheet	5%
Practical	10%
Final Exam	50%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. R. P. Roess, E. S. Prassas, and W. R. McShane "Traffic Engineering", 4th edition 2. N.J. Garber & L.A. Houel "traffic & Highway engineering" 4th edition 3. Traffic Engineering Handbook, 6th edition 4. Uniform Vehicle Code and Model Traffic Ordinance 5. Manual on Uniform Traffic Control Devices, 2003(new edition anticipated in 2009-2010) 6. Highway Capacity Manual, 4th edition (5th edition anticipated in 2010) 7. A Policy on Geometric Design of Highways and
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	Streets (The AASHTO Green Book), 5th edition 8. Traffic Signal Timing Manual, 1st edition 9. Transportation Planning Handbook, 3rd edition 10. Trip Generation, 8th edition 11. Parking Generation, 3rd edition
Main references (sources)	-
Recommended books and references (scientific journals, reports...)	Ministry of housing and construction “ Highway design Manual” 2003
Electronic References, Websites	-