

Republic of Iraq

The Ministry Of Higher Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Engineering

Department: Civil

Stage: Fourth year

Lecturer name: Yassir N. A.Kareem

Qualification: Master-Technology

Place of work: Civil Department

Form of Teaching Plan for a Course

Course Instructor	Yassir Nashaat Abdul Kareem				
E-mail	yassir.n.ak@uodiyala.edu.iq				
Title	Traffic Engineering				
Course Coordinator	Two hours \ week				
Course Objective	The objective of this course is to introduce students to traffic engineering fundamentals for highways which that improve and develop traffic movement organization, management, traffic operations.				
Course Description	Introduction to traffic engineering, road user characteristics, traffic engineering studies including data collection and analysis, analysis of traffic characteristics and flow theory, capacity and level of service analysis of freeways and highways, Intersections and design timing plans for signalized intersections, signs and marking of highways, safety and accident analysis.				
Textbook	Traffic and Highway Engineering by Nicholas J. Garber & Laster A. Hoel Highway and Traffic Engineering by Ben Thageesen Highway Capacity Manual by Transportation Research Board				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30 %	-	10 %	-	60 %
General Notes					

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1	22/09/2014	Introduction and planning in Traffic engineering.		
2	29/09/2014	The road user (driver)		
3	6/10/2104	The road user (vehicle)		
4	13/10/2104	The road user (road)		
5	20/10/2104	Volume studies: (composition, fluctuation).		
6	27/10/2104	Volume studies: traffic flow, volume characteristics		
7	3/11/2104	Volume studies: method of measuring		
8	10/11/2104	Speed studies: speed measurements		
9	17/11/2104	Speed studies: analysis of spot speed data		
10	24/11/2104	Travel time studies: purpose, measurements, analysis		
11	1/12/2104	Delay studies: survey procedure, factors affecting delay		
12	8/12/2104	Capacity and level of service		
13	15/12/2104	Capacity and service volume		
14	22/12/2104	Factors affecting capacity		
15	29/12/2104	Traffic flow parameters (flow, speed, density).		
16	50/01/2015	Relationships between traffic flow parameters		
Half – year break				
17	16/02/2015	Capacity analysis basic free way section		
18	23/02/2015	Capacity analysis basic free way section (Examples)		
19	2/03/2015	Capacity analysis of weaving section.		
20	9/03/2015	Capacity analysis of weaving section (Examples)		
21	16/03/2015	Intersection: types of Intersection.		
22	23/03/2015	Intersection: principle of Intersection design.		
23	30/03/2015	Signalization Intersection		
24	6/04/2015	Capacity analysis of Intersection		
25	13/04/2015	Traffic signal design.		
26	20/04/2015	Traffic signal design (Examples)		
27	27/04/2015	Traffic signs and marking		
28	4/05/2015	Highway safety: accidents, reporting and measures.		
29	11/05/2015	Parking studies: surveys, types, control.		
30	18/05/2015	Parking studies: parking design.		
31	25/05/2015	Computer application: use Excel program in data analysis		
32	2/06/2015	Computer application: use Vissim program in signal design		

Instructor Signature:

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