## Republic of Iraq

Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Apparatus



**College: Shatt Al-Arab University College** 

**Department: Civil Engineering** 

Stage: 3<sup>rd</sup> stage

Lecturer name: Dr. Wisam Abdulla Najim

**Academic title: Lecturer** 

## **Course Weekly Outline**

Name	Dr. Wisam Abdulla Najim AlHalfi				
E-mail address	Engwisam7@gmail.com				
Course name	Transportation Engineering (CE317)				
Course objective	This course aims to introduce the basic concepts of transportation planning as an introduction to the study of the process of forecasting demand for travel and public transportation.				
Course description	<ul> <li>A. Cognitive and educational objectives <ol> <li>Apply the basic elements of transportation planning.</li> <li>Apply the sequential steps of the travel demand forecasting process (four-step process).</li> <li>Introduction to public transportation.</li> </ol> </li> <li>B. Course specific skill objectives <ol> <li>Ability to identify and analyze engineering problems.</li> <li>Apply quantitative and numerical methods for the purpose of solving transportation engineering problems.</li> <li>Ability to design, collect, analyze and interpret data and information.</li> </ol> </li> </ul>				
References	Traffic & Highway Engineering (4th Edition, SI) Nicholas J. Garber and Lester A. Hoel Cengage Learning, Stamford, USA, 2010.				
External sources	<ol> <li>Highway and Traffic Engineering in Developing Countries by Bent Thagesen.</li> <li>Traffic and Highway Engineering by Nicholas J. Garber and Lester A. Hoel.</li> </ol>				
Course assessment	Rebot	Quizzes and assessment	Mid-term exam	Final exam	
	5	10	25	60	
General notes		ı	1	1	

## Republic of Iraq

Ministry of Higher
Education and Scientific
Research
Supervision and Scientific
Evaluation Apparatus



**College: Shatt Al-Arab University College** 

**Department: Civil Engineering** 

Stage: 3<sup>rd</sup> stage

Lecturer name: Dr. Wisam Abdulla Najim

**Academic title: Lecturer** 

## **Course Weekly Outline**

Week No.	Theoretical	Experimental	Aims
1	Introduction to	Introduction and	as an ublic
	Transportation Engineering	Background	
2	Introduction to Transportation Engineering	History of	g gt d b
		transportation	This course aims to introduce the basic concepts of transportation planning as an introduction to the study of the process of forecasting demand for travel and public transportation.
		engineering	
4	Introduction to	Modes of	tra tra
		Transportation	or
	Transportation Engineering	& mode	orta
		selection	spc
	Transportation Planning	transportation	der
	Urban	Planning	of t
5	Basic Elements of	Transportation	SCS
	Transportation Planning	Planning	eca
6	Travel Demand Forecasting	Travel Demand	onc
		Forecasting	ob
	T 1D 1E .:	process	sss
7	Travel Demand Forecasting	Data Collection	oce
8	Travel Demand Forecasting	Trip Generation	the
9	Travel Demand Forecasting	Trip Generation	the
10	Travel Demand Forecasting	Trip Distribution	opo
11	Travel Demand Forecasting	Modal Split	atrc dy
12	Travel Demand Forecasting	Traffic	o ii stu
		Assignment	s to
13	Public Transportation	Bus and Rail	uim o t
		Operations	se 2 on t lior
14	Public Transportation	Capacity of Bus	urs ctic
	Tublic Transportation	Stop	This course ai introduction to transportation.
15	Public Transportation	Constructing	his ntro
		Route Schedule	