



UNIVERSITI TEKNOLOGI MARA

BTP252: TRANSPORTATION PLANNING

Course Name (English)	TRANSPORTATION PLANNING APPROVED
Course Code	BTP252
MQF Credit	2
Course Description	This subject provides basic knowledge on the theoretical aspect of transportation planning especially on the relationship between land use and transportation.
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts Demonstrate practical and contemporary knowledge of relevant professional, ethical and legal frameworks Demonstrate professional skills, knowledge and competencies
Teaching Methodologies	Lectures, Field Trip, Simulation Activity, Directed Self-learning
CLO	CLO1 Able to comprehend the transportation Planning Process and the land use. CLO2 Able to identify and analysis the transportation planning problems and solution in terms plan and design. CLO3 Understand the relationship on transportation planning and traffic and transportation studies.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Transportation Planning 1.1) The landuse – Transportation Planning Process 1.2) New Approach to Transportation Planning Process	
2. Traffic and Transportation Studies 2.1) Traffic Counting Studies 2.2) Origin – Destination Survey 2.3) Parking Studies 2.4) Motor Vehicle Speed Studies 2.5) Traffic Accident Speed Studies 2.6) Traffic Management	
3. Introduction to Travel Demand Forecast 3.1) Trip Generation 3.2) Trip Distribution 3.3) Modal Split 3.4) Traffic Assignment	
4. Computer in Transportation Planning 4.1) Introduction to various transport softwares 4.2) Common softwares in transportation planning	
5. Road Traffic Legislation and Administration in Malaysia 5.1) Road Traffic Legislation 5.2) Finance and Administration of public roads	
6. Public Transport 6.1) Modes 6.2) Service characteristics 6.3) Issues	

7. Assignment

7.1) Group Assignment

8. Exam

8.1) n/a

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Group Project	Traffic study	20%	CLO2 , CLO3
	Quiz	Online Quiz	10%	CLO1 , CLO2 , CLO3
	Test	Class Test	10%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources	<ul style="list-style-type: none"> • Bruton, M.J. 1985, <i>Introduction to Transportation Planning</i>, 3 Ed., , London, Hutchinson [ISBN:] • Faulks, R.W. 1986, <i>Principles of Transport</i> , 4 Ed., , [ISBN:] • Salter, R.J. 1985, <i>Highway Traffic Analysis and Design</i>, Ed., , Hong Kong, Macmillan. [ISBN:] • The Institution of The Highways and Transpor 1987, <i>Road and Traffic in Urban Areas</i>, , Ed., , London, HMSO Publication Centre [ISBN:] • Button, K.J., Pearman A.S. 1982, <i>Car Ownership Modelling and Forecasting</i>, , Ed., , Aldershot, Gower [ISBN:] • Morlok, E.K. 1978, <i>Introduction to Transportation Engineering an</i>, Ed., , New York, Mc Graw Hill. [ISBN:] • Ortuzar, J de D and Willumsen, L.G. 1998, <i>Modelling Transport</i>, 2 Ed., , Chichester. John Wiley & Sons. [ISBN:] • Pagageorgiou, M. (ed) 1991, <i>Concise Encyclopaedia of Traffic &</i>, Ed., , Oxford, Pergamon Press. [ISBN:] • Ben Akiva, M.E. and Lerman, S.R 1985, <i>Discrete Choice Analysis :Theory</i>, Ed., , The MIT Press. [ISBN:] • Cleve, D.E. 1964, <i>Manual of Traffic Engineering Studies</i>, Ed., , Washington, Institute of Traffic Engineers [ISBN:] • David Banister 2002, <i>Transport Planning</i>, Taylor & Francis [ISBN: 0-415-26171-6] • Jeffrey Tumlin 2012, <i>Sustainable Transportation Planning</i>, John Wiley & Sons [ISBN: 9780470540930] • Frank Zeman 2012, <i>Metropolitan Sustainability</i>, Woodhead Pub Limited [ISBN: 9780857090461] • Peter Headicar 2009, <i>Transport Policy and Planning in Great Britain</i>, Routledge [ISBN: 0203894464]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	