

UNIVERSITI TEKNOLOGI MARA BTP151: SITE PLANNING AND DESIGN PRINCIPLES

Course Name (English)	SITE PLANNING AND DESIGN PRINCIPLES APPROVED			
Course Code	BTP151			
MQF Credit	3			
Course Description	This course provides theoretical knowledge in the design techniques for the preparation of layout plans for residential, commercial, and industrial. It begins with the introduction of planning for a site, then the processes involved in design, next the standards required in designing, and finally the design techniques.			
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understand confidently and in a variety of contexts			
	Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination, and accountability			
	Demonstrate practical and contemporary knowledge of relevant professional, ethical and legal frameworks			
Teaching Methodologies	Lectures, Blended Learning, Field Trip			
CLO	CLO1 Able to discuss land use issue and sustainable development CLO2 Able to carry out and conduct site survey CLO3 Able to access land suitability for land development CLO4 Able to evaluate and analyse site feasibility CLO5 Able to synthesize and produce concept and schematic plan CLO6 Able to use and apply the basic design criteria in development of housing, commercial, and industrial			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Introduction 1.1) Planners respon	sibility			
2. Site Planning Pro 2.1) Steps in planning	g process and methodology			
3. Site Inventory and Analysis 3.1) Locality and Site Feasibility 3.2) Nature and Physical Attribute - Land form, topography (Contour and spot elevation), geology dab soils, water surface and drainage, climate, vegetation and wildlife 3.3) Sensuous Attribute - Visual quality, noise, smells/odors, colours 3.4) Culture Attribute - history, population, land us, movement and circulation, utilities 3.5) Site Potential and constraints- composite map				
4. Synthesis and Design Process 4.1) Design Process philosophy 4.2) Development of concept 4.3) Schematic and master plan				
5. Planning Principl 5.1) Road Design and 5.2) Subdivision 5.3) Zoning 5.4) Densities and so 5.5) Planning standa	d circulation			

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6. Residential Area Design

- 6.1) Types of housing 6.2) Housing density 6.3) Design criteria

7. Commercial Area Design
7.1) Hierarchy of commercial centres: neighborhood, district, regional
7.2) Types of commercial centres: its location factors and trends for local, strip, shopping centres, mixed development, suburban, business park
7.3) Design criteria

8. Industrial Area Design
8.1) Types of industries: light, medium, heavy
8.2) Industrial development: industrial estates, individual parks
8.3) Location factors and design criteria

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Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	40%	CLO1 , CLO2 , CLO3 , CLO4 , CLO5 , CLO6

Reading List	Reference Book Resources	American Planning Association 2006, <i>Planning and Urban Design Standards</i> , , John Wiley & Sons		
		Bentley, I. et.al 1985, Responsive Environments: A Manual for Designe, Architectural Press, London		
		Bentley, I., Alcock, A., Murrain, P., McGlynn 1985, Responsive environments: a manual for designe, Architectural Press, London		
		Biddulph, Mike 2006, <i>Introduction to Residential Layout</i> ,, Architectural Press, London		
		ORourke, Julian 2008, <i>Placemaking,</i> , RUDI, London		
		De Chiara, J. and Koppleman, 1984, <i>Time Savers Standards</i> for Site Planning,, New York, Mc-Graw Hill Book Co.		
		Jacobs, Jane 1961, <i>The death and life of great American cities,</i> , (Vintage Book edition, New York 1992)		
		Jenkins, Eric 2007, <i>To scale: one hundred urban plans,</i> , Routledge,		
		Jones, P, Boujenko, N, & Marshall, S 2008, <i>Link & Place: A Guide to Street Planning and</i> , Landor Publishing, London		
		De Chiara, J. and Koppleman, 1982, <i>Urban Planning and Design Criteria,</i> New York, Van Nostrand Reinhold Co.		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			

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