REDAC FINAL YEAR PROJECT 2007/2008

Supervisor: Prof. Dr. Aminuddin Ab. Ghani				
STUDENT/TITLE	TASKS			
Muhd Hakim Abdul Rahman Kajian Membangunkan Lengkung Kadar Pengangkutan Endapan Menggunakan Perisian FLUVIAL-12	 Field Data Collection @ Sg. Juru River modeling using FLUVIAL-12 Flow rating curve development 			
Mohd Husnul Asrul Hussin The Efficiency of Detention Pond As A Flood Water Management System	Field Data CollectionWater Level Measurement			
Norley Nadirah Shaari Ciri-ciri Aliran Sistem Saliran Berumput Bio-Ekoligikal	 Field Data Collection Flow velocity and depth measurements for Swale 			
Supervisor: Mr. Zorkeflee Abu Hasan				
STUDENT/TITLE	TASKS			
Mastura Ahmad The Hydrologic Modelling of Bukit Merah Reservoir Catchment Using HEC-HMS & GIS	 Hydrologic data collection Field data collection and analyses Establishment of GIS data-based for Bukit Merah Reservoir Catchment Hydrologic Modelling using HEC-HMS 			
Muhammad Ashraf Shah Zainal Abidin Shah Simulation of Dam Operation for water Optimization Using HED-ResSim: Case Study of Bukit Merah Reservoir	 Establishment of GIS data-based for Bukit Merah Reservoir Field data collection and analyses Collate dam operation data and information Reservoir modelling 			
Umi Rahayu Maznan Application of AVSWAT2005 for Water Resources Management	 Hydrologic data collection Establishment of GIS data-based for Bukit Merah Reservoir Catchment Field data collection and analyses Watershed Modelling using AVSWAT2005 			

Supervisor: Dr. Lai Sai Hin			
STUDENT/TITLE	TASKS		
Su Wei Loon The use of SWAT for hydrologic and water quality modeling	 to use ArcView in preparation of Theme layers, Grid layer, DEM and database files. to obtain data (metheorological, landuse etc.) and parameters (soil, Landuse properties, etc.) needed to run SWAT model. To estimate discharge and water quality from multiple watershed using SWAT model 		
Liew Tek Jin The use of artificial neural network for flood estimation	 To learn artificial neural network. To write a program for discharge estimation of natural rivers under flood conditions. 		
Pang Chin Chong Comparison of Rainfall-Runoff Relationship between Conventional and MSMA Drainage	 To learn about MSMA, rainfall-runoff relationship To analyze the data from BIOECODS project (consider as MSMA drain). Assume the MSMA drain as conventional drain and perform simple a simple modelling through mathematic to obtain the rainfall runoff relationships. To obtained the effectiveness of MSMA drain in reducing the peak hydrograph 		

Supervisor:	Dr. I	I Md.	Azamathulla
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STUDENT/TITLE	TASKS
Kee Li Choo Genetic Programming to Predict Bridge Pier Scour	 Data Collection from literature To learn artificial neural network.(ANN) To learn Genetic Programming (GP) Write Program code for scour predition at Bridges using ANN & GP
Khor Jiang Chai ANN Model for Total bed Material load prediction	 Data Collection from literature To learn artificial neural network. (ANN) To learn Genetic Programming (GP) To write a program for bed load predition
Irwan Shamsuddin Yatim Mustafa Genetic Programming to Predict Flip Bucket Spillway Scour	 Data Collection from literature To learn artificial neural network. (ANN) To learn Genetic Programming (GP)To write a program for scour predition for flip bucket spillway