CIV3104 Hydrology I

Hours per Semester				Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment Mark	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
60	0	0	60	100	60	40	4

Course Description

This course is intended to make students appreciate the availability of water, its current use and the challenges; climate change; introductory water resources planning; meteorology; the hydrological cycle and processes of precipitation, surface runoff, infiltration, interception, depression storage, evapo-transpiration; their estimation and analysis. It will include the carbon cycle; drought, its effects and mitigation, reservoir planning and sedimentation.

Objectives

- To learn about the availability, the use and challenges in the management of water resources worldwide, including climate change
- To learn about the importance of meteorology and the planning of a water resource project
- To learn about the processes of precipitation, infiltration and soil moisture, surface runoff and evapotranspiration in the hydrological cycle, and their estimation.
- To learn about the carbon cycle, drought and its mitigation