

COURSE: **CEE 9568 A/B/L - ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR WATER RESOURCES PROJECTS**

OBJECTIVES: To understand environmental impact assessment process applied to water resources engineering projects and the interdisciplinary nature of water resources engineering to protect water resources and the environment. To learn the design of water resources projects that have minimal effect on the natural environment, social or economic environment.

PREREQUISITES: Basic knowledge of water resources engineering including hydrology and hydraulics.

TOPICS: (1) The need for environmental assessment, (2) Objectives of the assessment, (3) Policy, institutional and legal framework, (4) The environmental impact assessment process, (5) Scoping and public participation, (6) Monitoring and audits, (7) Major impact on water resources projects, (8) Case studies of water resources engineering projects.

CONTACT HOURS: One 2 – hour lecture per week and one 1 hour tutorial per week. Guest lecturers from public and private sectors will also be arranged.

TEXT: Class notes and reference materials.

REFERENCE:

1. Environmental Impact Assessment: Practice and Participation By Kevin S. Hanna;
2. Environmental Impact Assessment of Irrigation and Drainage Projects, By T. C. Dougherty, A. W. Hall; and
3. Case Study Reports

ASSIGNMENTS: Five (05) assignment for the entire course and must be completed and submitted every two weeks.

EXAMINATION: Final Exam will be 3 hours open book.

EVALUATION:	Assignments:	20%
	Course Project and Presentation:	30%
	Final Examination:	50%

	Total	100%

Note: Students must pass the final examination (at least 50%) to pass this course.

The students will select a project study provided by the instructor. The assessment will be based on PowerPoint presentation and final report. The project will include the EIA process for water related system. The student will be required to present the case study using power point. The project should be undertaken in a group.

INSTRUCTOR: TBA

ATTENDANCE: Any students who, in the opinion of the instructor, is absent too frequently from class or laboratory periods in any course, will be reported to the Dean (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean, the student will be debarred from taking the regular examination in the course.

CHEATING: University policy states that cheating is a scholastic offense. The commission of a scholastic offense is attended by academic penalties which might include expulsion from the program. If you are caught cheating, there will be no second warning.

ENGLISH: In Accordance with Senate and Faculty Policy, students may be penalised up to 10% of the marks on all assignments, tests, and examinations for the improper use of English. Additionally, poorly written work with the exception of the final examination may be returned without grading. If resubmission of the work is permitted, it may be graded with marks deducted for poor English and/or late submission.

General Learning Objectives:

Knowledge Base	x	Individual Work	x	Ethics and Equity	
Problem Analysis		Team Work	x	Economics and Project Management	
Investigation	x	Communication	x	Life-Long Learning	x
Design		Professionalism			
Engineering Tools		Impact on Society	x		