Project Work Module				
Course Title	**Auto CAD Application in WRIE**			
Course Number	WRIE5202			
Program	B.Sc in Water Resources and Irrigation Engineering			
Module name	Project Work			
Module Coordinator	Name: . …….. Office location . …….. Mobile: . ……; e-mail: ……. Consultation Hours: _____			
Instructor Name	Name: . …….. Office location . …….. Mobile: . ……; e-mail: ……. Consultation Hours: _____			
Course Information	Academic Year :_____ Year : **V** Semester: I**I** Meeting Day: To be arranged at the beginning of the semester Meeting Time: To be arranged at the beginning of the semester Meeting Location: To be arranged at the beginning of the semester			
ECTS	**3 ECTS**			
Students' work load	**Lecture**	**Tutorial**	**Lab**	**Home study**
	0	0	3	2
Course Objectives and Competences Acquired	Introduce students the basic skills of Auto CAD. or computer soft ware for water resources engineers. At the end of the course students will be able to read and draw architectural and water resources engineering drawings			
Course Description	Introduction to Auto CAD environment, Setting up Auto CAD, Concept of layers, Drawing of two dimensional Objects, Modifying Objects, Text and dimension, Controlling the view, Mv set-up and plotting. Exercises on selected sample drawings in: Architectural drawing plans, sections and elevation of simple Residential buildings. Methods of detailing reinforced concrete structural elements. Sanitary drawing. Layouts and cross-sections of earthen and solid gravity dams and their appurtenant structures; regulations and cross-drainage works; canals in cutting and in embankment. Drawing of: gates and turbines.			
Pre-requisite	**Introduction to Computer Science & Programming**			
Status of Course	**Compulsory**			
Syllabus				
Week	**Topics and contact hours (tutorial, laboratory and practical)**			**Required reference (topics and pages)**
To be prepared by Water Resources and Irrigation Engineering Department				
Summary of Teaching and Learning Method	Lectures, lab exercises			
Assessment				

Assessment	**Tests & laboratory practice, 50% projects 20% Final Exam 30%**
Course Expectation	**Preparedness and participation**: both students and the teacher should be prepared since education is an interactive process. Students should be active participants in the teaching-learning process. They should be interested to the course and come to class with the necessary materials such as exercise books and pen. In addition, they should to take responsibility in their education. Teachers are also expected be prepared and interested to the course, which they are offering. They have to consult the essential materials ahead of time and try share their knowledge in an efficient and effective manner. **Material availability**: reference materials are expected to be available in the library nearest to respective faculties.
Policy	**Attendance**: A student required to attend at least 85 % of the classes lecture and 100% practical **Assignments**: all students must do all the assignments given **Tests/quizzes**: all students must sit/take all tests/quizzes given **Cheating/plagiarism**: cheating/plagiarism is strictly forbidden. It will result in disqualification of the course.
Reference /Literature	• Grabowski (2006). The Illustrated Auto CAD 2006: Quick Reference Australia • Jesa, P. (2001). Engineering Drawing with Auto CAD 2000 New Delhi • Magurie D. (1998). Engineering Drawing from First Principles Using Auto CAD Boston • French,T.E (1986). Engineering Drawing Graphic Technology. New York.