

WTRT B53
“Water & Wastewater Analysis”

Student Learning Outcomes	Measure	PLO	ILO	GE
1. The student will demonstrate technical subject knowledge through participation in class discussion, demonstration, written examinations and reports pertaining to water quality standards	Written Assignment	1, 2	I, II, III, IV	
2. The student will demonstrate through discussion and examination the ability to interpret basic water and waste water test results.	Written Assignment	1,2	I, II, III	
3. The student will demonstrate through discussion and written exercises and examinations knowledge of common water treatment problems.	Written Assignment	1,2	I, II, III	
4. The student will demonstrate through demonstration and written examination the ability to perform calculations pertaining to the presentation of water test results.	Written Assignment	1, 2	I, III	
5. The student will demonstrate through discussion and written reports, knowledge of the need for quality control and safety in the treatment plant.	Written Assignment	1, 2, 3	I, II, III, IV	
6. The student will demonstrate through class discussion and written examination the purpose, types and methods of good record keeping.	Written Assignment	1, 2	I, III	

PLOs:

- 1.** Students will demonstrate proficiency in technical skills and safety principles required for industrial employment.
- 2.** Students will demonstrate problem solving skills used in industrial design and product development
- 3.** Students will demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

ILOs:

- I. Think critically and evaluate sources and information for validity and usefulness.**
- II. Communicate effectively in both written and oral forms.**
- III. Demonstrate competency in a field of knowledge or with job-related skills.**
- IV. Engage productively in all levels of society – interpersonal, community, the state and nation, and the world.**