

| Teaching commitments, Academic year 2024/2025, (BESSEDIK Madani)  | Teaching commitments, Academic year 2024/2025, (BESSEDIK Madani)   |
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| <p><b>COURSE TITLE*</b> Water treatment and wastewater treatment</p> <p><b>CODE*</b> HS321 <b>CREDIT*</b> 4 <b>Coefficient*</b> 2</p> <p><b>HOURLY VOLUME*:</b> Lectures: 1h30, Workshops: 1h30</p> <p><b>TOTAL SEMESTER DURATION OF THE COURSE (15)</b></p> <p><b>FIELD/SPECIALITY*</b> Hydraulics</p> <p><b>LEADER [TEACHER and ASSISTANT]*</b> BESSEDIK Madani</p> <p><b>GENERAL OBJECTIVE OF THE COURSE</b></p> <p>In this course, the student will learn the different modes and stages of treatment and purification of drinking water and wastewater.</p> <p><b>LEARNING OBJECTIVES</b></p> <p>The student will be able to design and size water treatment plants or wastewater treatment plants.</p> <p><b>DESCRIPTION AND STRUCTURE* (AND TIMETABLE?)</b></p> <p><b>Part 1: Water treatment</b></p> <ul style="list-style-type: none"> <li>• Chapter I: General information on drinking water and potability standards (1 week)</li> <li>• Chapter II: Pre-treatment of drinking water (2 weeks)</li> <li>• Chapter III: Clarification Treatment (4 weeks)</li> <li>• Chapter IV: Finishing treatment (2 weeks)</li> </ul> <p><b>Part 2: Wastewater treatment</b></p> <ul style="list-style-type: none"> <li>• Chapter I: General information on the origins of wastewater (1 week)</li> <li>• Chapter II: Mechanical wastewater treatment (1 week)</li> <li>• Chapter III: Biological treatment and clarification (2 weeks)</li> <li>• Chapter IV: Sludge Treatment (1 week)</li> </ul> <p><b>COURSE MATERIALS</b></p> <p>The course is available on the following platforms: teams, moodle</p> <p><b>PREREQUISITES*</b></p> <p>Basic mathematics, physics and chemistry.</p> | <p><b>BIBLIOGRAPHICAL RESOURCES</b></p> <ol style="list-style-type: none"> <li>1. Olivier Atteia, 3Chimie et pollutions des eaux souterraines3, édition Tec et Doc, 2005.</li> <li>2.Laura Sigg, Philippe Behra et Werner Stumm, "Chimie des milieux aquatiques - Chimie des eaux naturelles et des interfaces dans l'environnement", édition Dunod, 2006,</li> <li>3. Jean Rodier, "L'Analyse de l'eau: Eaux naturelles, eaux résiduaires, eau de mer", Edition Dunod.</li> <li>4. F. EDELIN, "L'épuration biologique des eaux: Théorie et technologie des réacteurs", Ed. Cebedoc, liège, 1993, 298 p.</li> <li>5. A. GAID, "Epuration biologique des eaux usées urbaines", Tome 1, Ed. OPU, Alger, 1984, 261 p.</li> <li>6. A. GAID, "Epuration biologique des eaux usées urbaines", Tome 2, Ed. OPU, Alger, 1984, 234 p.</li> <li>7. C. GOMELLA et H. GUERREE, "Les eaux usées dans les agglomérations urbaines ou rurales, Tome 2: Le traitement", Ed. Eyrolles, 1982, paris, 260 p.</li> <li>8. Anonyme, "Mémento technique de l'eau (Tome 1 et 2)", Ed. Degremont-Suez, 10ème édition, 2005, 1904p</li> </ol> <p><b>ORGANISATION AND OPERATING PRINCIPLES OF THE COURSE</b></p> <p>The course is done in the classroom, and students will have a note related to their attendance that will be included in the continuous control note.</p> <p><b>INSTRUCTIONS FOR INDIVIDUAL OR GROUP EXERCISES OR TASKS</b></p> <p><b>ASSESSMENT*</b> Continuous assessment: 40%; Final examination: 60%.</p> <p><b>INFORMATION ON ADDITIONAL SERVICES</b></p> <p><b>CONTACT</b></p> <p><a href="mailto:mabessedik@yahoo.fr">mabessedik@yahoo.fr</a> / <a href="mailto:madani.bessedik@univ-tlemcen.dz">madani.bessedik@univ-tlemcen.dz</a></p> |

\*Rubriques obligatoires