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| **Institute of Technology (IT) - university of Ouargla –**  **Department: Applied Engineering** |

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| **SUBJECT SYLLABUS**  **(to be published on the website)** |
| **Water and industrial effluent treatment** |

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| **COURSE TEACHER** | | **Soumia Amina KABDI** | | | |
| Receiving students per week | | | |
| Email | Kabdi.soumiaamina@univ-ouargla.dz | Day | **Tuesday** | Hour | **1:30:00 PM** |
| Landline phone |  | Day |  | Hour |  |
| Secretary phone |  | Day |  | Hour |  |
| Other | **661888841** | Building | **ISTA** | Office | **Room 03** |

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| **Tutorials**  (Receiving students per week) | | | | | | | |
| Name of teacher | Office/reception room | Session 1 | | Session 2 | | Session 3 | |
| Day | Session | Day | Hour | Day | Session |
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| **Practical works**  (Receiving of students per week) | | | | | | | |
| Name of teacher | Office/reception room | Session 1 | | Session 2 | | Session 3 | |
| Day | Session | Day | Hour | Day | Session |
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| **Course description** | |
| Objective | Knowing the different waters to be treated. Identify the effectiveness and limitations of different treatment technologies |
| Type of Teaching Unit | UEM (Methodological) |
| Short content | Reminders of physico-chemical notions of water-.-Measurement of water quality with physical, chemical and biological parameters.- Water treatment processes and industrial effluents |
| Subject Credits | **2** |
| Subject coefficient | **2** |
| Weighting Participation |  |
| Weighting Attendance |  |
| Average Calculation | **Final exam + continuous evaluation** |
| Skills targeted | knowing the measurement of water quality and national and international standards  knowing the wastewater treatment process |

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| **Assessment of continuous knowledge test** | | | | | | | |
| **First knowledge test** | | | | | | | |
| Day | Session | Duration | Type (1) | Doc. Allowed (yes/no) | Scale | Exchange after evaluation (date of sheet consulting) | Evaluation criteria (2) |
|  |  |  | EC |  | 12pts |  | S |
| **Second knowledge test** | | | | | | | |
| Day | Session | Duration | Type (1) | Doc. Allowed (yes/no) | Scale | Exchange after evaluation (date of sheet consulting) | Evaluation criteria (2) |
|  |  |  | E | No | 5pts |  | S |

(1) Type: E=written, EI=individual presentation, EC=class presentation, EX=experimentation, MCQ

(2) Assessment criteria: A=Analysis, S=synthesis, AR=argumentation, D=approach, R=results.

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| **Used Equipment and Material** | |
| Platforms addresses | SNDL |
| Application names (web, local networks) |  |
| Handouts |  |
| Laboratory material |  |
| Protective material |  |
| Material to be used in the field |  |

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| **Expectations** | |
| Expectations of students (Participation-involvement) |  |
| Teacher expectations |  |
| **Bibliography** | |
| Books and digital resources | Water analysis 9th edition Jean Rodier .-Irrigation with wastewater and health Pay Drehsel..-Water treatment F.Berné.. J.Cordonner.- Drinking water production Bernard Legube. |
| Articles (papers) |  |
| Handouts | DEPARTMENTAL ANALYSIS LABORATORY "On-site" physico-chemical unit (COFRAC accredited unit) |
| Websites | Guide to extensive wastewater treatment processes  https://drive.google.com/file/d/1QbleAnvj2\_ioT-  5AI3HFa7WY6d9cO3q/view?usp=drivesdk. |

Stamp of the department