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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 standardsknowing 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 processeshttps://drive.google.com/file/d/1QbleAnvj2\_ioT-5AI3HFa7WY6d9cO3q/view?usp=drivesdk. |

Stamp of the department