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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)** |
| **Measurement, control and test chains** |

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| **COURSE TEACHER** | **Abdelhakim CHERGUI** |
| Receiving students per week |
| Email  | **Chergui.abdelhakim@univ-ouargla.dz** | Day  | **Monday**  | Hour  | **8:00:00 AM** |
| Landline phone |  | Day |  | Hour  |  |
| Secretary phone  |  | Day  |  | Hour  |  |
| Other  | 661287986 | Building  | **ISTA**  | Office  | PPP2 |

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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 |
| **Abdelhakim CHERGUI** | **Room 02** |  | **9:30:00 AM** |  |  |  |  |
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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 |
| **Abdelhakim CHERGUI** | **Measurement lab** | **Monday**  | **09:30** |  |  |  |  |
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| **Course description** |
| Objective  | Mobilize the skills acquired to define and implement a chain of measurements, control and tests based on a need |
| Type of Teaching Unit | UEF (Fundamental) |
| Short content | Synthesis of sensor types and technologies. Choice and implementation of the components of a chain of measures, tests in response to specifications. Analysis, interpretation, exploitation of results. |
| Subject Credits | 2 |
| Subject coefficient | 2 |
| Weighting Participation | 80% |
| Weighting Attendance | 90% |
| Average Calculation | (Attendance/5 + participation/5 + test1/5 + test2/5) /20 |
| Skills targeted | Choose and implement measurement, control and test devices and methods according to their characteristics and needs |

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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) |
|  | 9:30:00 AM | 45 | EI | No  |  |  | S |
| **Second knowledge test** |
| Day | Session | Duration | Type (1) | Doc. Allowed (yes/no) | Scale | Exchange after evaluation (date of sheet consulting) | Evaluation criteria (2) |
|  |  | 30 | E | No  |  |  | 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  |  |
| Application names (web, local networks) |  |
| Handouts  | Course of sensors and measurement chains |
| Laboratory material  | Kit of sensors measurement  |
| 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  | Sensors in industrial instrumentation  |
| Articles (papers)  |  |
| Handouts  | Course of sensors and measurement chains |
| Websites  | <https://www.techno-science.net>  |

Stamp of the department