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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**](mailto: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