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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)** |
| **Instrument control** |

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| **COURSE TEACHER** | **Abdelhakim CHERGUI** |
| Receiving students per week |
| Email  | **chergui.abdelhakim@univ-ouargla.dz** | Day  | **Sunday**   | Hour  | **1:30:00 PM** |
| Landline phone |  | Day |  | Hour  | **1:30:00 PM** |
| Secretary phone  |  | Day  |  | Hour  |  |
| Other  | **661287986** | Building  | **ISTA**  | Office  | **PPP1** |

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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** | **Sunday**  | **3:00:00 PM** |  |  |  |  |
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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** | **Renewable energies lab** | **Sunday**  | **13:30** |  |  |  |  |
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| **Course description** |
| Objective  | Acquire the basics of information transmission (controlling). |
| Type of Teaching Unit | UEF (Fundamental) |
| Short content | Basic architecture of a computer.Instrumentation bus: analysis and implementation.Advanced programming of instruments and human-machine interfaces |
| Subject Credits | **1.5** |
| Subject coefficient | **1.5** |
| Weighting Participation | **65%** |
| Weighting Attendance | **85%** |
| Average Calculation | **Attendance/5 + participation/5 + test1/5 + test2/5**  |
| Skills targeted | Implement data exchange between a measuring instrument and a computer |

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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) |
| **Sunday**  | **3:00:00 AM** | **45** | **E** | **No**  |  |  | **A, R** |
| **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**  |  |  | **A, R** |

(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 microprocessor  |
| Laboratory material  | PC + microprocessor kit |
| 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  | Introduction to microprocessors and microcontrollers |
| Articles (papers)  |  |
| Handouts  | Course of controlling  |
| Websites  | <https://www.technologuepro.com>  |

Stamp of the department