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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**](mailto: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