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| **Identity card of the specialty**: Academic License: Physics of Materials |

**Level:**Licence

**Domain:**Science of the matter

**Sector:**Physical

**Speciality:**Physics of Materials

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| **1- Location of the training:** |

**Faculty (or Institute)**: Faculty of Exact Sciences

**Department**: Science of the matter

References of the decree authorizing the diploma to be prepared: Decree n°793 of 05/08/2015

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| **2- External partners:** |

**Companies and other socio-economic partners**: Company names

**International partners**: name of international partners

**Other partner establishments**: names of other companies, organisations, etc.

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| **3- General organization of the training: position of the project** |

Common base of the field: SM (1st year) +L2 Physics > L3 Physics of Materials

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| **4- Context of the training:** |

Research in fields as rich and varied as materials will undoubtedly have many positive repercussions on the economic, scientific and technological development of Algeria.

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| **5- Objectives of the training:** |

The objective of this license in materials physics is to give students a basic training in fundamental physics and in physics applied to materials including a theoretical and practical approach. This broad culture is necessary to be able to successfully integrate a Master in Materials Engineering. On the other hand the student must master different techniques such as DRX, SEM, Dilatometry,… for analysis purposes in companies, etc…

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| **6- Profiles and skills targeted:** |

The skills targeted are general scientific skills in the physics of materials encompassing the fundamental aspect and the technical aspect linked to the procedures for the development and characterization of the different types of materials up to analysis and control techniques. Aptitude for control and analysis in industry, laboratories and design offices.

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| **7- Local, regional and national employability potential:** |

Graduates can join the professional environment of analysis and control laboratories as well as design offices in the very large materials sector in the Msila region. In general, the main targeted trades are:

* industry: any sector related to materials, renewable energies, nuclear power, microelectronics, micromechanics, metallurgy, plastics, aeronautical construction, railway construction, automobile construction, etc.
* research: R&D sector in industry,
* education: in primary, middle,…