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| <b>MASTER DEGREE IN BIOTECHNOLOGIES</b> | <b>MASTER DEGREE IN BIOTECHNOLOGIES</b>           |
| Title of the subject                    | PHARMACEUTICAL TECHNOLOGY                         |
| Degree Course (class)                   | Industrial and Environmental Biotechnology (LM-8) |
| ECTS credits                            | 3   |
| Compulsory attendance                   | YES   |
| Language                                | ITALIAN   |
| Academic year                           | 2020-21   |

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| <b>Subject Teacher</b>      |  |      |
| Name and Surname            | ADRIANA TRAPANI  |      |
| email address               | adriana.trapani@uniba.it                                       |      |
| Place and time of reception | PHARMACY-DRUG SCIENCES DEPARTMENT (agreement by email contact) |      |
| <b>ECTS credits details</b> | Discipline sector (SSD)  | Area |
|                             | CHIM/09  | ---  |

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| <b>Study plan schedule</b> | Year of study plan |            | Semester  |       |
|                            | II                 |            | I         |       |
| <b>Time management</b>     | Lessons            | Laboratory | Exercises | Total |
| CFU                        | 2                  | 1          |           | 3     |
| Total hours                | 50                 | 25         |           | 75    |
| In-class study hours       | 16                 | 12         |           | 28    |
| Out-of-class study hours   | 34                 | 13         |           | 47    |

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| <b>Syllabus</b>   |  |
| Prerequisites / Requirements  |  |
| <b>Expected learning outcomes (according to Dublin descriptors)</b> |  |
| Knowledge and understanding   | <i>Aspects related to the mechanism of action of pharmaceutical active ingredients; general knowledge and understanding of the legislative contexts for the storage, packaging, mixing, quality control, distribution and marketing of cosmetic preparations</i> |
| Applying knowledge  | Demonstrate skills in the control and quality certification of drugs   |

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|   | according to current legislative standards.  |
| Making informed judgments and choices   | <ul style="list-style-type: none"> <li>o Identifying pharmaceutically useful excipients and active ingredients</li> <li>o Check on pharmaceutical formulations</li> </ul>  |
| Communicating knowledge   | <ul style="list-style-type: none"> <li>o Accuracy in the denomination of excipients and pharmaceutically active substances</li> </ul>  |
| Capacities to continue learning   | Development of critical sense and a high degree of autonomy to face more advanced studies oriented to further professional development such as Masters and Specialization Courses in the pharmaceutical area with both small and large scale industrial working application  |
| <b>Study Program</b>  |  |
| Content   | Main excipients in drug delivery. Routes of administrations. Solid dosage forms (capsules, granules, tablets). Liquid dosage forms (syrups, emulsions). Parenterals and modified drug delivery systems (an introduction)   |
| Bibliography and textbooks  | Colombo, Catellani "Tecnologia Farmaceutica"   |
| Notes to textbooks  |  |
| Teaching methods  | Face lessons and laboratory exercises aimed at acquiring skills in the preparation of selected pharmaceutical forms  |
| Assessment methods (oral, written, ongoing assessment)                          | Written test consisting on topics concerning the program. Following the correction, the test will be commented and discussed together with the student and, if inaccurate, incomplete or inadequate answers are found, the oral question on the entire program of the course will be carried out   |
| Evaluation criteria (describe criteria for each of the above expected outcomes) | <ul style="list-style-type: none"> <li>• <i>Knowledge and understanding</i> <ul style="list-style-type: none"> <li>o 50% of the final mark expressed in thirtieths</li> </ul> </li> <li>• <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> <li>o 10% of the final mark expressed in thirtieths</li> </ul> </li> <li>• <i>Autonomy of judgment</i> <ul style="list-style-type: none"> <li>o 20% of the final mark expressed in thirtieths</li> </ul> </li> <li>• <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> <li>o 10% of the final mark expressed in thirtieths</li> </ul> </li> <li>• <i>Communication skills</i> <ul style="list-style-type: none"> <li>o 5% of the final mark expressed in thirtieths</li> </ul> </li> <li>• <i>Capacities to continue learning</i><br/>5% of the final mark expressed in thirtieths</li> </ul> |
| Further information   |  |