UNIVERSIDAD DE BURGOS

MASTER'S DEGREE IN ADVANCED CHEMISTRY

SPECIALISING IN NEW MATERIALS

SPECIALISING IN INDUSTRIAL PRODUCTS AND PROCEDURES

ELECTIVE COURSES (Choose 45 credits)

Module: ADVANCED GENERAL STUDIES

Code	Course	ECTS	Semester
7465	Bond Activation by Transition Metal Complexes	5	Fall
7467	Advanced Techniques I: X-Ray and Mass Spectrometry Techniques	5	Fall
7470	Computational Chemistry	5	Fall
7795	Synthesis, Modelization and Properties of Organometallic Complexes	5	Spring
7468	Advanced Techniques II: Multinuclear Magnetic Resonance, Paramagnetic Electronic Resonance and Molecular Magnetism	5	Spring
7471	Seminars	5	Fall and Spring

Module: NEW MATERIALS
(Students of this specialty must take 20 credits of this module)

Code	Course	ECTS	Semester
7472	Advanced Electrochemical Methods	5	Fall
7473	Modern Methods In Organic Synthesis	5	Fall
7474	Polymer Materials: Synthesis, Properties and Applications	5	Fall
7475	Advances in New Materials (I)	5	Spring
7476	Advances in New Materials (II)	5	Spring
7477	Industrial Applications of New Materials	5	Spring

Module: INDUSTRIAL PRODUCTS AND PROCEDURES
(Students of this specialty must take 20 credits of this module)

Code	Course	ECTS	Semester
7478	Chemiometric Multivariate and Multivariant Methods	5	Fall
7479	Advanced Technologies in Industrial Processes	5	Fall
7480	Quality Control and Assurance of Procedures, Processes and Products	5	Fall
7481	Advanced Methods in Experimental Design and Natural Calculation .	5	Spring
7482	Green Chemistry and Sustainable Development	5	Spring
7483	Organic and Inorganic Industrial Chemistry.	5	Spring

PRACTICUM

Code	Course	ECTS	Semester
7484	Practicum	15	Fall and Spring

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COMPULSORY CORE MODULE

Code	Course	ECTS	Semester
🇪🇸🇬🇧 **7485**	Final Master's Project	15	Fall and Spring

IMPORTANT INFORMATION:

🇪🇸🇬🇧 English Friendly Courses.
• Fall Semester = 1º Semester
• Spring Semester= 2º Semester
Elective courses require a minimum of students and could change the semester
Final Degree Dissertation and Internships may need special requirements