



(*)Facultade de Química

Presentation

The studies of Chemistry have a large tradition at the University of Vigo, where it has been taught during more than 30 years. The establishment of the University System of Galicia in the 90s and the current process of implantation of the European Space of Higher Education (EEES) modified the offer of degrees, but not the pioneering spirit of the chemists in research or in the quest for a better service to the society.



Degrees given in the Faculty

Degree in Chemistry

- Masters And Doctorates:
 - Industry and Chemical Research and Industrial Chemistry
 - Theoretical chemistry and Computational Modelling
- Master:
 - Science and Technology of Conservation of Fishing Products

Web page

Information about the Faculty of Chemistry:

<http://quimica.uvigo.es>

(*)Máster Universitario en Química Teórica e Modelización Computacional

Subjects

Year 1st

Code	Name	Quadmester	Total Cr.
V11M131V01101	European Language	An	5
V11M131V01102	Mathematical Foundations in Quantum Mechanics	An	5
V11M131V01103	Statistical Mechanics and Applications in Simulation	An	5
V11M131V01104	Symmetry in Atoms, Molecules and Solids	An	5

V11M131V01105	Numerical and Computational Techniques	An	5
V11M131V01106	Theoretical Chemistry Methods I	An	5
V11M131V01107	Theoretical Chemistry Methods II	An	5
V11M131V01108	Advanced Theoretical Chemistry Methods	An	5
V11M131V01109	Chemical Reaction Dynamics	An	5
V11M131V01110	Excited States	An	5
V11M131V01111	Solids	An	5
V11M131V01112	Linux and Linux for Management	An	5
V11M131V01113	Applied Theoretical Chemistry Practicals	An	5
V11M131V01114	Lasers	An	5
V11M131V01115	Computational Biochemistry	An	5

IDENTIFYING DATA				
Lingua Europea				
Subject	Lingua Europea			
Code	V11M131V01101			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel Nieto Faza, Olalla Silva López, Carlos			
E-mail	jose_hermida@uvigo.es			
Web				
General description				

Competencias

Code

Resultados de aprendizaxe

Expected results from this subject	Training and Learning Results
Mellorar a comunicación oral e escrita en Inglés ou outros idiomas europeos	
Ser capaz de obter e manexar bibliografía científica e técnica	

Contidos

Topic
Tema 1: Técnicas de lectura para a comprensión de textos e conferencias científicas
Tema 2: Técnicas de planificación e estructuración de textos en inglés (ou outras linguas europeas)

Planificación

	Class hours	Hours outside the classroom	Total hours
Traballo tutelado	5	35	40
Presentacións/exposicións	2	23	25
Eventos docentes y/o divulgativos	0	50	50
Traballos e proxectos	0	10	10

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Metodoloxía docente

	Description
Traballo tutelado	Traballaranse as competencias lingüísticas de expresión oral, comprensión oral e expresión escrita. Para isto pedirase ao alumno a lectura de artigos e preparación de redaccións en inglés.
Presentacións/exposicións	O alumno terá que preparar e presentar algún tema en inglés.
Eventos docentes y/o divulgativos	Asistencia a conferencias en inglés

Atención personalizada

Avaliación

Description	Qualification	Training and Learning Results
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Traballo tutelado	Pódese solicitar a realización de memorias sobre algún tema en lingua inglesa	50
Presentacións/exposicións	Pódese solicitar a preparación e exposición de traballos sobre algún tema en lingua inglesa	50

Other comments on the Evaluation

Bibliografía. Fontes de información

Basic Bibliography

Complementary Bibliography

Recomendacións

IDENTIFYING DATA				
Fundamentos Matemáticos da Mecánica Cuántica				
Subject	Fundamentos Matemáticos da Mecánica Cuántica			
Code	V11M131V01102			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Mecánica Estatística e Aplicacións en Simulación				
Subject	Mecánica Estatística e Aplicacións en Simulación			
Code	V11M131V01103			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject			Training and Learning Results	
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Simetría en Átomos, Moléculas e Sólidos				
Subject	Simetría en Átomos, Moléculas e Sólidos			
Code	V11M131V01104			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Técnicas Computacionais e Cálculo Numérico				
Subject	Técnicas Computacionais e Cálculo Numérico			
Code	V11M131V01105			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Métodos da Química Teórica I				
Subject	Métodos da Química Teórica I			
Code	V11M131V01106			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Métodos da Química Teórica II				
Subject	Métodos da Química Teórica II			
Code	V11M131V01107			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				

Competencias
Code

Resultados de aprendizaxe	
Expected results from this subject	Training and Learning Results

Contidos
Topic

Planificación			
	Class hours	Hours outside the classroom	Total hours

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Metodoloxía docente
Description

Atención personalizada

Avaliación		
Description	Qualification	Training and Learning Results

Other comments on the Evaluation

Bibliografía. Fontes de información
Basic Bibliography
Complementary Bibliography

Recomendacións

IDENTIFYING DATA				
Profundización nos Métodos da Química Teórica				
Subject	Profundización nos Métodos da Química Teórica			
Code	V11M131V01108			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Mandado Alonso, Marcos			
Lecturers	Mandado Alonso, Marcos			
E-mail	mandado@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Dinámica das Reaccións Químicas				
Subject	Dinámica das Reaccións Químicas			
Code	V11M131V01109			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Estados Excitados				
Subject	Estados Excitados			
Code	V11M131V01110			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Sólidos				
Subject	Sólidos			
Code	V11M131V01111			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Linux e Linux de Xestión				
Subject	Linux e Linux de Xestión			
Code	V11M131V01112			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				

Competencias

Code

Resultados de aprendizaxe

Expected results from this subject	Training and Learning Results
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Contidos

Topic

Planificación

	Class hours	Hours outside the classroom	Total hours
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Metodoloxía docente

Description

Atención personalizada

Avaliación

Description	Qualification	Training and Learning Results
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Other comments on the Evaluation

Bibliografía. Fontes de información

Basic Bibliography

Complementary Bibliography

Recomendacións

IDENTIFYING DATA				
Laboratorio de Química Teórica Aplicada				
Subject	Laboratorio de Química Teórica Aplicada			
Code	V11M131V01113			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department	Química Física Química orgánica			
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Flores Rodríguez, Jesús Ramón Hermida Ramón, José Manuel Mandado Alonso, Marcos Nieto Faza, Olalla Peña Gallego, María de los Ángeles Silva López, Carlos			
E-mail	jose_hermida@uvigo.es			
Web				
General description				

Competencias

Code

Resultados de aprendizaxe

Expected results from this subject	Training and Learning Results
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Contidos

Topic

Planificación

	Class hours	Hours outside the classroom	Total hours
Obradoiro	10	10	20
Titoría en grupo	10	10	20
Prácticas en aulas informáticas	40	40	80
Probas de resposta curta	3	10	13

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Metodoloxía docente

Description
Obradoiro
Titoría en grupo
Prácticas en aulas informáticas

Atención personalizada

Methodologies	Description
Prácticas en aulas informáticas	
Obradoiro	
Titoría en grupo	

Avaliación

	Description	Qualification	Training and Learning Results
Obradoiro		0	
Prácticas en aulas informáticas		0	

Other comments on the Evaluation

Bibliografía. Fontes de información

Basic Bibliography

Complementary Bibliography

Recomendacións

IDENTIFYING DATA				
Láseres				
Subject	Láseres			
Code	V11M131V01114			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				
Competencias				
Code				
Resultados de aprendizaxe				
Expected results from this subject				Training and Learning Results
Contidos				
Topic				
Planificación				
	Class hours	Hours outside the classroom	Total hours	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				
Metodoloxía docente				
	Description			
Atención personalizada				
Avaliación				
Description	Qualification	Training and Learning Results		
Other comments on the Evaluation				
Bibliografía. Fontes de información				
Basic Bibliography				
Complementary Bibliography				
Recomendacións				

IDENTIFYING DATA				
Bioquímica Computacional				
Subject	Bioquímica Computacional			
Code	V11M131V01115			
Study programme	Máster Universitario en Química Teórica e Modelización Computacional			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1	An
Teaching language				
Department				
Coordinator	Hermida Ramón, José Manuel			
Lecturers	Hermida Ramón, José Manuel			
E-mail	jose_hermida@uvigo.es			
Web				
General description				

Competencias
Code

Resultados de aprendizaxe	
Expected results from this subject	Training and Learning Results

Contidos
Topic

Planificación			
	Class hours	Hours outside the classroom	Total hours

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Metodoloxía docente
Description

Atención personalizada

Avaliación		
Description	Qualification	Training and Learning Results

Other comments on the Evaluation

Bibliografía. Fontes de información
Basic Bibliography
Complementary Bibliography

Recomendacións
