

Addendum to the Course Information Year 2021-2022

Possible adaptations due to COVID 19:

- **Scenario A:** Face-to-face reduced schedule
- **Scenario B:** Face-to-face suspended schedule

Elija la Titulación

General Information of the course

Name: Lubricant Technology

Code: V

Year: 1

Semester: 2

Course Information

<http://www.uhu.es/etsi/estudiantes-2/incoming-students/>

SCENARIO A

Syllabus adaptation

In a less classroom setting with teaching that combines online classes (synchronous or asynchronous) and classroom, the syllabus of this subject will continue according to what is established in the typical teaching guide and verification report

Adequacy of training activities and teaching methodologies

Training activity	Type*
Theoretical sessions	Online
Problem solving sessions	Face-to-face
Sessions in laboratory or computer classroom	Face-to-face
Fieldwork sessions	Face-to-face
Academically directed teaching activities	Online

* Face-to-face/Online

Description of teaching methodologies used for each training activity

- Theoretical sessions: It will be participatory master classes that will take place synchronously online, through Zoom application. In them, the teacher will explain the fundamental theoretical content of each lesson and its importance in the context of the subject. They will be supported with specific readings and visualization of multimedia material submitted by Moodle, which the students must previously work on. To increase participation, participatory forums will be opened in Moodle about the content that is being taught at all times.

- Problem solving sessions: These sessions will take place face-to-face, provided that the minimum distance of 1.5m can be respected. In them, practical cases of industrial interest will be solved applying the theoretical contents seen in the theoretical sessions.

Description of teaching methodologies used for each training activity (continued)

-Sessions in laboratory: These sessions will be held face-to-face in the laboratories of the Complex Fluids Group, provided that the minimum distance of 1.5m can be respected. They will explain the operation of different standardized equipment and tribometers for characterizing the properties of lubricants.

- Fieldwork sessions. They will be carried out as long as the company to visit allows it. In the event that it cannot be carried out, students will be offered multimedia and applied resources, complementary to the syllabus, which will be visualized and worked throughout the course.

- Academically directed teaching activities: These sessions will take place on-line asynchronously, by carrying out a bibliographic work in a group of students. These activities are based on individual or team work on a specific topic, which must be previously delivered and defended by videoconference with the participation of each of the team members. The ability of each student to work as a team, the quality of the written work (clear and justified exposition of the contents) and the oral exposition (clear exposition and communication skills) will be evaluated, according to the objectives of the activity, the capacity for analysis and synthesis of the bibliography used, as well as coordination between team members. Forums will be enabled in Moodle to favor the resolution of doubts in the issues raised, as well as to get an effective work from the different groups of students.

Adaptation of evaluation system (continuous assessment)

Evaluation system	Type*	Percentage
Exam/Test offline	Synchronous	40
Practice presentation	Face-to-face	10
Oral presentation / defense by videoconference	Synchronous	30
Individual student monitoring	Asynchronous	20

* Face-to-face/ Synchronous/ Asynchronous

Description of evaluation system

- Problems / theory exam: A number of tests will be carried out through questionnaires by Moodle where the student must demonstrate the acquisition of knowledge and skills. Obtaining a mark lower than 3.5 in an exam does not imply the possibility of taking an average with the rest of the tests and the student will have to go to the final test with this syllabus content.

- Practice exam: There will be a written test, under conditions similar to the previous one, with questions about laboratory practices.

- Oral presentation / defense by videoconference: The state of art carried out by student groups on a specific topic, which must be delivered previously and defended face-to-face or synchronously online through zoom with the participation of each of the team members. Forums will be enabled in Moodle to favor the resolution of doubts in the issues raised, as well as to get an effective work from the different groups of students.

- Individual student monitoring: Attitude and especially daily work will be valued in the training activities proposed, both face-to-face and online (viewing of multimedia content, readings, participation in forums, questionnaires, etc.).

Description of evaluation system (continued)

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Adaptation of evaluation system (final assessment)

Sistema de Evaluación	Formato*	Porcentaje
Problems / theory exam	Face-to-face	50
Oral presentation / defense by videoconference	Face-to-face	50

* Face-to-face/ Synchronous/ Asynchronous

Description of evaluation system

There will be a final exam by face-to-face with the theoretical / practical content developed in the course. Likewise, they must deliver and defend orally the realization of a work on a specific topic related to the subject.

SCENARIO B

Syllabus adaptation

In a on-line scenary (synchronous or asynchronous) and classroom, the syllabus of this subject will continue according to what is established in the typical teaching guide and verification report

Adequacy of training activities and teaching methodologies

Training activity	Type*
Theoretical sessions	Online
Problem solving sessions	Online
Sessions in laboratory or computer classroom	Online
Academically directed teaching activities	Online

* In scenario B, all the training activities will be carried out *Online*

Description of teaching methodologies used for each training activity

- Theoretical sessions: It will be participatory master classes that will take place synchronously online, through Zoom application. In them, the teacher will explain the fundamental theoretical content of each lesson and its importance in the context of the subject. They will be supported with specific readings and visualization of multimedia material submitted by Moodle, which the students must previously work on. To increase participation, participatory forums will be opened in Moodle about the content that is being taught at all times.

- Problem solving sessions: These sessions will take place synchronous or asynchronously online, provided that the minimum distance of 1.5m and online can be respected. In them, practical cases of industrial interest will be solved applying the theoretical contents seen in the theoretical sessions.

-Sessions in laboratory: These sessions will take place synchronously online using Zoom. Multimedia resources will be displayed and virtual meetings will be held where the operation of different standardized equipment and tribometers are explained to characterize the properties of lubricants. In addition, the fieldwork sessions of approach to the Industrial reality would be suppressed. In its place, students will be offered multimedia resources, complementary to the syllabus and of an applied nature, which will be visualized and worked throughout the course. .

- Academically directed teaching activities: These sessions will take place on-line asynchronously, by carrying out a bibliographic work in a group of students. These activities are based on individual or team work on a specific topic, which must be previously delivered and defended by videoconference with the participation of each of the team members. The ability of each student to work as a team, the quality of the written work (clear and justified exposition of the contents) and the oral exposition (clear exposition and communication skills) will be evaluated, according to the objectives of the activity, the capacity for analysis and synthesis of the bibliography used, as well as coordination between team members. Forums will be enabled in Moodle to favor the resolution of doubts in the issues raised, as well as to get an effective work from the different groups of students.

Evaluation system	Type*	Percentage
Offline exam	Online	50
Oral presentation / defense by videoconference	Online	30
Individual student monitoring	Online	20

* In scenario B, all the evaluation systems will be carried out *Online*

Description of evaluation system

- Offline exams They will be carried out through various questionnaires in Moodle, enabled throughout the completion of each thematic block, where the student must demonstrate the acquisition of knowledge and skills of a theoretical-practical nature. Your percentage will be weighted proportionally to the number of questionnaires completed. Obtaining a grade lower than 3.5 in a questionnaire does not imply the possibility of taking an average with the rest of the exams and you must go to the final test with this thematic content.
- Oral presentation / defense by videoconference: The state of art carried out by student groups on a specific topic, which must be delivered previously and defended synchronously online through Zoom with the participation of each of the team members. Forums will be enabled in Moodle to favor the resolution of doubts in the issues raised, as well as to get an effective work from the different groups of students.
- Individual student monitoring: Attitude and especially daily work will be valued in the training activities proposed, online (viewing of multimedia content, readings, participation in forums, questionnaires, etc.).

Evaluation system	Type*	Percentage
Problems / theory exam	Online	50
Oral presentation / defense by videoconference	Online	50

* In scenario B, all the evaluation systems will be carried out *Online*

Description of evaluation system

There will be a final exam in a synchronous online format with the theoretical / practical content developed in the course. Likewise, they must deliver and defend orally by videoconference the realization of a work on a specific topic related to the subject.