



Erasmus+

Co-funded by the
Erasmus+ Programme
of the European Union

1. General Information and objective

DigiChem is an international network for the study of sustainable chemistry. The project named "DigiChem - Creating a digital study environment for sustainable chemistry" involves four international partners and is a direct project funded by the European Union to the consortium composed by the University of Gießen, Padova, Ljubljana and Zagreb.

Chemistry plays an important role with regard to a sustainable economy and society. As new chemical processes must be developed, and existing processes must be adapted to changing conditions, advanced sustainable chemistry should be implemented. This topic involves transnational problems and therefore international viewpoints should be included in the study program. For this reason, within the framework of an "Erasmus+ Cooperation Partnership" the project "DigiChem" started in February 2022 gathering together partners from Gießen, Ljubljana, Padua and Zagreb universities. The overall objective is to enable intercultural exchange for students and teachers in the real and digital spaces as well as in the context of mutual visits.

2. Program Plan

Four modules will include online lectures and 4 weeks of on-site seminars. DigiChem is shaped by the scientific consortium composed by the four universities above mentioned which are in charge for managing each module accordingly to the university expertise (Introduction to sustainability, Sustainable Organic Chemistry, Energy materials and Water Management).

The program consists of 4 weeks of on-site lectures which will take place in the four different countries. Each partner is in charge of managing the teaching contents and the logistics of the week. Each week consists of 36 hours of lectures and each partner will be in charge of delivering the timetable of the on-site lectures, including some laboratory activity. Each partner will also deliver more than 30 hours of remote lectures about the thematic of the module.

3. Student responsibility

The student who is selected for the program will be responsible for the following tasks.

- Join the full week of on-site lecture (except in the case of exams or other proved justification)
- Join at least 8 hours of the remote video of each module
- Participate to the examination session organized by the consortium after each module termination
- Give feedback to the activities and put the effort to fit academic with the project engagement



4. Student Selection and eligibility

The students are considered eligible for the program if they are regularly enrolled or pre-enrolled or willing to be enrolled but still not enrolled due to justifiable reasons at the university of Padova as first year master students in Chemistry or Industrial Chemistry course. Moreover, of the starting academic year and must be winners of a selection according to the Art.5 of the present document. The program will allow a group of max. 5 students from each University who will be selected from each partner to follow the lectures in person and participate in the lab courses on-site. The Italian evaluation commission is composed by the Italian project coordinator and the two presidents of the master courses steering committee involved in the project.

Any further information and exception will be delivered to the interested part from the official email address.

5. Evaluation Criteria for the selection

The ranking list for the selection of the applicants to be enrolled is based on the following criteria:

- i. 15 points for the bachelor's degree. The points are awarded in proportion to the grade obtained using the formula: $((x-66)/44)x14 + y$, where x is the applicant grade and $y=1$ if $x=110L$. For students without a bachelor's degree, it will be used the expected grade or the grade calculated with the weighted averaged mark considering 3 additional extra-points;
- ii. 15 points for the bachelor's degree weighted average of the examination marks. The points are awarded by using the following formula: $((x-18)/12)x15$, where x is the applicant bachelor's degree weighted average of the examination marks;
- iii. 30 points for the letter of motivation (or interview if needed).

Only the applicants getting a score larger or equal to 30/60 will be considered eligible for the program.

6. Enrolment and procedure regulations

The criteria for eligibility are reported in the Art.4. Procedures for student enrolment are implemented by each party, in accordance with the rules and regulations at each university. The students studying at the host university are expected to have the students' rights and to abide by all applicable rules and regulations of the host university. University of Padova will refuse any abide after the start of the first module, except for proved personal or academic justification. Moreover, concerning University of Padova the information about application procedure is published through the website at the following link:

<https://www.chimica.unipd.it/corsi/corsi-di-laurea-magistrale/laurea-magistrale-chimica/digichem-international-network>



The information about eligibility and criteria evaluation are reported in Art.4 and Art.5 of the present document. The results and other official information will be delivered through the official email digichem.chimica@unipd.it. For additional information please refer to Art.11.

7. Examination Session

The examination type is decided by the consortium accordingly to the teaching content delivered. Preferably the examination will occur online, and it will be constituted by a group work and discussion/questions aimed to assess the acquisition of the most important concepts delivered by the four module

8. Financial conditions

For each student involved in the project a financial contribution is foreseen. The contribution depends on the destination and is determined by the European Union in the Erasmus+ Program framework. In the following table are reported granted Scholarship from the Erasmus+ program which will be made available by the sending institution.

<i>Destination</i>	<i>Travel cost/person</i>	<i>Accommodation cost/person</i>
<i>Ljubljana; Zagreb</i>	€180	€406
<i>Giessen</i>	€275	€406

The modality of financial support delivery is agreed, as listed among Student responsibilities in Art.3, among the parties (project coordinator, accounting department and students). In case of no agree among parties the Department will refund students the amount of money pointed in the above table after each module take place.

9. Consortium responsibilities

- To ensure and facilitate the implementation of the measures of this agreement, each institution shall appoint an academic coordinator as contact person.
- The host university shall assist the students of the sending university to the best of its ability in assisting to obtain the respective permits (visa, etc.) that are necessary to enable the implementation of this agreement.
- The partner universities of this contract shall permit the students who are sent to the host university on the basis of this agreement to use its academic and social facilities during their stay. In particular, the participating students shall be granted priority in the reservation of student housing, where applicable and available.



10. Award

The four modules will be awarded 20 CFU to each of the five students.

Moreover, the project will be awarded with an open badge and a certificate which certifies the participation of the modules and the completion of the program.

11. Contacts

The official communication channel for the project in Italy can be reached at digichem.chimica@unipd.it

The official responsible coordinator is Prof. Dr. Silvia Gross at silvia.gross@unipd.it The lead partner is the university of Giessen, and the contacts are Prof. Dr. Richard Göttlich at Richard.Goettlich@org.chemie.uni-giessen.de and Prof. Dr. Bernd Smarsly at Bernd.Smarsly@phys.chemie.uni-giessen.de