Contacts:
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Course lecturers:
Principal investigators at the Division of Industrial Biotechnology (Lisbeth Olsson, Carl Johan Franzén, Johan Larsbrink, Yvonne Nygård, Cecilia Geijer and several national + international guest lecturers).
The aim is to introduce the students to production of biofuels and other chemicals using plant cell wall materials as the raw material with emphasis on the biotechnology aspect of the production process. Lectures and exercises will be mixed. The course also includes a presentation of the group exercise completed during the course.

Who should attend?
The course is suitable to PhD students or researchers with a background in biotechnology, chemical engineering or biochemistry. The course can be taken as a 3 ETCS course, by following lectures + passing the end exam, or as a 5 ETCS course, by additionally completing a group assignment.

Course fee
The course fee is 700 SEK (= 70 €) for academic participants and 1000 SEK (= 100 €) for participants from the industry. The course fee includes all course material, participation through zoom and feedback of group assignment (presentation + written report).

Registration and information
The registration form is available at https://docs.google.com/forms/d/e/1FAIpQLSc4wGZEqhP-xpn-4JJE0VT_1F0bcaNY7cuBXZZLXLL_sz8FCQ/viewform.
Registration by the 30th of September 2021. Scan the QR for video about the course’s previous edition.

Course Program

Daily schedule
9 – 12 Lectures
13 – 15 Exercises in breakout rooms
15 – 17 Seminars presenting applications, by invited speakers

Monday
Biomass composition and characterization

Tuesday
Enzymes and their action

Wednesday
Microorganisms as cell factories

Thursday
Fermentation processes

Friday
Analytics
Written exam
Presentation of group work

The updated course program will be available at http://www.chalmers.se/en/departments/bio/research/doctoral-studies/Pages/Industrial-Biotechnology-Course.aspx