

# Action Plan 2022 - Department of Chemical Engineering

## Education and learning environment

Development of learning outcome and competence profile in light of “Fremtidens teknologistudier” (FTS) – main focus: Sustainability and Digitalization

1. Include sustainability assessment and modules for projects at the MSc level
2. Establish process modelling string in IKP courses (FTS pilot - digitalization)

Mapping need for competence development in using student active learning methods, (digital and non-digital methods, ref. FTS/CDIO).

Implement changes to organization of Felleslab – learning outcome/assessment

Establish/evaluate a regular meeting point and time between IKP and its students

Continued learning (EVU) efforts for industry

## Research

Promotion of interdisciplinary research proposals.

1. Workshops within sustainable topics (for permanent scientific staff)
2. Matrix of competence and applications for future research proposals IKP

Assistance in research proposals:

1. Information to postdocs/researchers about funding channels.
2. Quality in applications

Evaluate PhD courses at IKP

Evaluation of mid-term evaluation for PhDs (objective and process)

## Innovation

Strengthen the department’s industrial network

1. Evaluate number and profile of adjunct professors at IKP
2. Establish Alumni network and invite guest lecturers from the industry

Enhance IPR knowledge

1. Communicating on updated innovation ecosystem and support instruments for young researchers
2. TTO to give a presentation about IPR to students and staff at IKP-dagen

## Dissemination and recruitment of students

Visualize IKP's contribution to reach the UN's sustainability development goals and the green shift

- Establish target groups and communication plan
- IKP sustainability webpage

Encourage engagement and visibility from employees in the public debate.

- Identify candidates and provide media training
- Update NTNU expert list with relevant people from IKP

Evaluation of the student recruitment strategy to IKP

- MSCHEMBI
- MTKJ in light of recent changes of the program structure

## HSE

Establish local wiki for gas related topics

Establish HSE e-learning course  
Film HSE-related topics and implement this in the e-learning course

Incorporating the new risk assessment system at NTNU

## Organization development, competence development and leadership

Evaluate sustainability in the operation of the department  
Reduce unnecessary travelling, (ref: Environment Develop plan 2020-2030)

- Significant reduce travels to short meetings
- Prioritize travels that strengthen quality in research, education and innovation
- Arrange meetings, conferences and seminars in a way that minimizes travelling.
- Consider possibility for reuse before purchasing new materiel (fx. Furniture etc)

Promote the PhD-track as a possible career for IKP students

- PhDs to present at lunch meetings with students
- Dissemination at local events (IKP-dagen, Kjemedagen etc)

Establish project support team

- Establish work processes for start-up and execution of research projects

Development of work environment

1. Reestablishment of Social Committee.
2. Establish plan and organizing of social activities
3. Encourage cooperation between employee groups
4. K5- follow up based on previous of report from 2021
5. Establish contact areas for IKP students and PhDs

Incorporation of the new allocation model for funds from the faculty and evaluate effects on long term planning