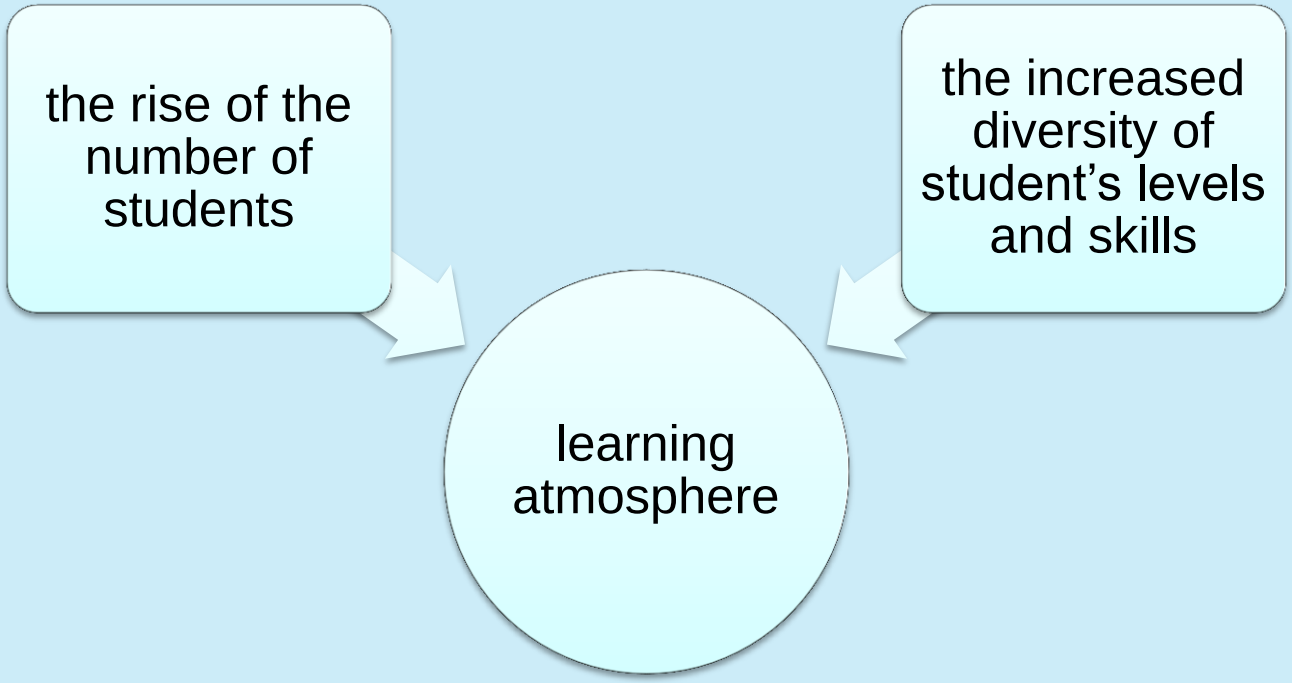
Innovative Methods in Engineering Education

Why do we need innovation in engineering education?

What do innovative methods in engineering education mean?

Challenges for tertiary institutions



project-based learning in engineering education

- Qualified lecturers
- Qualified graduate teaching assistants
- Adequate technical equipment and facilities
- Scheduling of the lecturers given by curriculum

project-based learning in engineering education

Lecturer

Student Group

- Questioning
- Planning
- Researching
- Creating
- Improving
- Presenting

dual system of vocational education and studies

example curriculum in Baden-Württemberg:

1st semester	practice	theory
2nd semester	theory	practice
3rd semester	theory	theory
4th semester	practice (project-based learning)	practice (project-based learning)
5th semester	theory (project-based learning)	practice
6th semester	theory (project-based learning)	practice (Bachelor thesis)

= practical training in a company

= theoretical training at the vocational academy

Thank you for your attention