

Studieplan 2015/2016

Bachelor of Engineering - Mechanical Engineering: Industrial Design

Studyprogramcode

BIMAS-F

Expected learning outcomes

Knowledge

- The candidate has basic knowledge of design and/or manufacturing, materials and an overall understanding of system and product development. The candidate has the width and depth of knowledge to be able to contribute to relevant specialisation;
- The candidate has basic knowledge of mathematics, science and relevant social and business subjects and how these are integrated into system and product development, design, and production;
- The candidate has a grasp of the historical development of the mechanical engineer's role in society, and has awareness of the consequences of developing and using technological solutions;
- The candidate knows about research and development work, relevant methodology, and work practices within the field of mechanical engineering.
- The candidate is able to independently update knowledge both through the literature, through contact with professional groups and from practical experience.

Skills

- The candidate can apply knowledge of mathematics, physics, chemistry and technology topics in order to formulate, specify, plan and solve technical problems in an informed and systematic manner;
- The candidate understands development methodology, can use software for modelling and simulation, and can implement solutions and systems;
- The candidate can identify, plan and implement projects, experiments and simulations, as well as analyse, interpret and use the resulting data, both independently and in teams;
- The candidate can find, evaluate and utilise technical knowledge in a critical way and present it both orally and in writing to explain a problem;
- The candidate can contribute new ideas, innovation and entrepreneurial creativity through the development and realisation of sustainable and socially beneficial products, systems and solutions.

General Competence

- The candidate has insight into the environmental, health, social and economic consequences of industrial design products and solutions and can put them in an ethical and lifetime perspective;
- The candidate can convey professional engineering knowledge to wider audiences both orally and in writing, in Norwegian and in English, and can help to demonstrate technology's importance and consequences;
- The candidate can reflect on his/her personal professional practice, as well as in a team and interdisciplinary context, and can adapt practices to actual situations;

- The candidate can contribute to the development of good practice by taking part in discussions and sharing knowledge and experiences with others.

PUBLISHER

No

DEGREE

Bachelorgrad