



KURSPLAN

Integrerad produktframtagning, 7,5 högskolepoäng

Integrated Product Realization, 7.5 credits

Kurskod:	TIPR21	Utbildningsnivå:	Avancerad nivå
Fastställd av:	VD 2021-03-01	Utbildningsområde:	Tekniska området
Reviderad av:	Utbildningschef 2021-05-19	Ämnesgrupp:	MA2
Gäller fr.o.m.:	Vd beslut 2021/014	Fördjupning:	A1N
	Ny kurs för nya masterprogram, start HT21 för TAMM1 Materials and Manufacturing 120 credits, TAPE1 Production Engineering and Management 120 credits TAPD1 Product Design 120 credits	Huvudområde:	Produktionssystem, Produktutveckling
	Rev 2 - Ny litteratur.		
Version:	2		

Lärandemål

After a successful course, the student shall:

Kunskap och förståelse

- demonstrate comprehension of all stages in the product realization process
- display knowledge of methods and tools used in the different stages of the product realization process
- demonstrate comprehension of the organization of the product realization process

Färdighet och förmåga

- demonstrate an ability to formulate and conduct product realisation projects
- demonstrate an ability to use various tool and methods for developing products towards given objectives
- demonstrate the ability to use tools and methods to solve problems related to product realization

Värderingsförmåga och förhållningssätt

- demonstrate the ability to value and reflect over the result of the project towards pre-determined objectives
- demonstrate an understanding of the multidisciplinary nature of the product realization process.

Innehåll

The course covers the different stages in the product realization process' and provides the students with a framework for the realization of products.

The course includes the following elements:

- Requirement specifications
- Product and production specifications
- Standards in product realization
- Organizational methods in product development such as lean product development
- Group dynamics, leadership and communication in the different stages of the product realization process

Undervisningsformer

Lectures and exercises.

Undervisningen bedrivs på engelska.

Förkunskapskrav

Passed courses 180 credits in first cycle, at least 90 credits within the major subject Mechanical Engineering, Industrial Engineering and Management or Civil Engineering, and 15 credits in Mathematics. Proof of English proficiency is required (or the equivalent).

Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd .

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Tentamen	4 hp	5/4/3/U
Individuella inlämningsuppgifter	3,5 hp	5/4/3/U

Kurslitteratur

Course literature is determined 8 weeks before the course starts.

Title: Product Design and Development, Seventh Edition

Author: Karl T. Ulrich. Steven D. Eppinger. Maria C. Yang

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