

Opintojaksomuutokset/Course changes 2025-2026

Konetekniikan koulutusohjelma/Degree Programme in Mechanical Engineering

UUDET OPINTOJAKSOT/NEW COURSES				
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Vuosikurssi/Year	Periodi/Period
BK80A2530	Applied Design and Experimental Studies of Welded Joints	5	MSc1	3-4
BK80A2540	Structural Design and Fabrication for Welded Structures	5	MSc2	1-2
BK85A0010	Control of Mechatronic Systems	5	MSc1	3-4
BK85A0020	Project Course in Mechatronic Systems	5-12	MSc1	3-4
BK85A0030	Optimization in Mechanics and Dynamics: Decision Making for Design and Control	5	MSc2	1-2
BK80A2520	Advanced Finite Element Methods in Solid and Structural Mechanics	5	MSc1	3-4

MUUTTUVAT OPINTOJAKSOT/COURSES CHANGING				
Uusi opintojakso/New course			Korvaa opintojakson/Replaces the course	
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Tunniste, nimi ja op-määrä/Code, name, ECTS	
BK80A2510	Steel Structures 2	5	BK80A2303 Steel Structures II, 5 op	
BK50A6101	Manufacturing of Metal Products	5-12	BK50A6100 Manufacturing of Metal Products 5 op	
BK10A3801	Principles of Industrial Manufacturing Processes	7	BK10A3800 Principles of Industrial Manufacturing Processes 5 op	

POISTUVAT OPINTOJAKSOT/COURSES REMOVED (lukuvuodelta 25-26)				
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Korvaava opintojakso/Replaced by the course	
BK80A2303	Steel Structures II	5	BK80A2510 Steel Structures 2 5 op	
BK80A1302	Applications for FE-method for Steel Structures	5	BK80A2520 Advanced Finite Element Methods in Solid and Structural Mechanics 5 op	
BK80A3101	Experimental Research of Welding and Structures	5	BK80A2530 Applied Design and Experimental Studies of Welded Joints 5 op	
BK80A3000	Integrated Design and Fabrication of Welded Structures	5	BK80A2540 Structural Design and Fabrication for Welded Structures 5 op	
BK80A3400	Design of Advanced Plate and Shell Structures	5	BK20A3200 Welding Quality and Economy 5 op tai BK50A5500 Sustainable Sheet Metal Product Fabrication 5 op tai BK70A0600 Computational Methods in Mechanics 5 op. Mikäli kaikki kolme edellä mainittua kurssia kuuluvat opiskelijan tutkintorakenteeseen, kurssin voi korvata millä tahansa konetekniikan maisterikursseilla.	
BK50A6001	Design Thinking and Innovation in Design	5	Ei suoraa korvaavuutta/No direct replacement	
BK10A4902	The Language of Product-to-consumer Interaction in Product and Packaging Design	5	Ei suoraa korvaavuutta/No direct replacement	
BK80A3300	Structural and Mechanical System Design	5	Ei suoraa korvaavuutta/No direct replacement	
BK50A6004	Human Centered Design	10	Ei suoraa korvaavuutta/No direct replacement	
BK50A6005	Circular Design	5	Ei suoraa korvaavuutta/No direct replacement	
BK80A2900	Lujuustekniikan perusteet	3	BK80A4000 Mekaniikka I 6op (korvaa Lujuustekniikan perusteet+Johdatus Mekaniikkaan koten, enten, ymten kandirakenteessa)	
BK80A2701	Lujuusoppi	9	BK80A4020 Mekaniikka III 8op	

BK10A6500	Engineering Mechanics 3	7	BK80A4020 Engineering Mechanics III 8op
BK50A3900	Integration of Product's Design, Sustainable Production and Material Select	5	BK50A6101 Manufacturing of Metal Products 5-12 op
BK50AJ105	Design for Manufacturability and Assembly (DFM/DFMA)	6	BK50A6101 Manufacturing of Metal Products 5-12 op
BK30AJ105	Postgraduate Course in Advanced Digital Photonic Manufacturing	10	Ei suoraa korvaavuutta/No direct replacement
BK60A1800	Developing AI Algorithms for Brain Computer Interface Technology	5	Ei suoraa korvaavuutta/No direct replacement
BK50A6006	Product Design, Visualization and Production Process	5-10	Ei suoraa korvaavuutta/No direct replacement
BK50A5600	Design for Manufacturing	4	Ei suoraa korvaavuutta/No direct replacement
BK60A1001	Control of Mechatronic Machines	5	BK85A0010 Control of Mechatronic Systems 5 op

POISTUVAT OPINTOJAKSOT/COURSES REMOVED (lukuvuodelta 26-27, luennoidaan viimeisen kerran 25-26)

Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Korvaava opintojakso/Replaced by the course
BK60A0800	Fluid Power	5	BK85A0020 Project Course in Mechatronic Systems 5-12 op
BK60A1700	Control and Design of Robot Systems	5	BK85A0030 Optimization in Mechanics and Dynamics: Decision Making for Design and Control 5 op
BK50A5500	Sustainable Sheet Metal Product Fabrication	5	BK50A6101 Manufacturing of Metal Products 5-12 op
BK50A3800	Productivity and Sustainability of Metal Cutting	5	BK50A6101 Manufacturing of Metal Products 5-12 op

New Hebei-courses (HDD)				
Code	New Hebei Course	ECTS	Replaces the course in BScDD programmes	ECTS
HDD2010	Technical Documentation and 3D Modeling (HDD)	6	BK10A6101 Technical Documentation and 3D Modeling	6