

UUDET OPINTOJAKSOT/NEW COURSES				
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Vuosikurssi/Year	Periodi/Period
BK10A4500	Renewable Packaging Materials JEDI	5	DI 1	1-2
BK10A4600	Control of Mechatronic Machines JEDI	5	DI	1-2
BK10A4700	Metalliset materiaalit JEDI	6	DI 2	1-2
BK10A4800	Virtual Welding JEDI	6	DI 2	Int.vk 20
BK10A4900	Package Design and Consumer - Package Interactions JEDI	5	DI 2	1-2
BK10A5000	Modern Packaging Lines, Machinery and Package Manufacturing JEDI	5	DI 1	3-4
BK10A5100	Functional Intelligent Packages JEDI*	5	DI 2	1-2

* Luennoidaan ensimmäisen kerran lukuvuonna 2018-2019/Will be lectured first time in academic year 2018-2019

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	
BK10A1301	Tekniikan kandidaatin tutkinnon työharjoittelu	2-8	BK10A1300 Tekniikan kandidaatin tutkinnon työharjoittelu 2 op	
BK10A2001	Hitsaustekniikan jatkokurssi JEDI	5	BK10A2000 Hitsaustekniikan jatkokurssi JEDI 6 op	
BK10A2201	Laser Based Manufacturing for Design JEDI	5	BK10A2200 Laser Based Products and Production Technology JEDI 5 ECTS cr	
BK10A2401	Digital Advanced Manufacturing with Lasers JEDI	5	BK10A2400 Laboratory Course on Laser Processing Technology JEDI 4 ECTS cr	
BK10A2601	Tuotantotekniikan erityisopintojakso JEDI	5	BK10A2600 Tuotantotekniikan erityisopintojakso JEDI 6 op	
BK10A3201	Machine Dynamics JEDI	5	BK10A3200 Machine Dynamics JEDI 6 op	
BK10A3601	Valmistus- ja tuotantotekniikka	11	BK10A3600 Valmistus- ja tuotantotekniikka 12 op	
BK30A0803	Digital Advanced Manufacturing with Lasers	5	BK30A0802 Laboratory Course of Laser Based Manufacturing 5 ECTS cr	
BK30A1201	Laser Materials Processing	5	BK30A1200 Laser Based Processes for Materials Processing 5 ECTS cr	
BK30A1301	Laser Based Manufacturing for Design	5	BK30A1300 Laser Based Manufacturing for Design 5 ECTS cr	
BK50A3401	Tekninen dokumentointi ja 3D-mallinnus	6	BK50A3400 Tekninen dokumentointi ja 3D-mallinnus 5 op	
BK50A4401	Fabrication Laboratory	5-10	BK50A4400 Fabrication Laboratory 5 ECTS cr	
BK80A1302	Applications of FE-method for Steel Structures	5	BK80A1301 FE-Analysis, Advanced Course 5 ECTS cr	
BK80A2701	Lujuusoppi	9	BK80A2700 Lujuusoppi 12 op	
BK80A2900	Lujuustekniikan perusteet	3		
BK80A2601	Mekaniikka	7	BK80A2600 Mekaniikka 10 op	
BK80A3200	Mekaniikan perusteet	3		

POISTUVAT OPINTOJAKSOT/COURSES REMOVED			
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Korvaava opintojakso (jos päätetty)/Replaced by the course (if any)
BK10A1900	Diplomityö ja seminaari JEDI	30	BK10A1501 Master's Thesis and Seminar 30 ECTS cr
BK10A4200	Tuotesuunnittelu ja -mallinnus	5	Ota yhteyttä opintojen ohjaajaasi.
BK30A1100	Laser Technology and 3D-printing	4	Please contact your study counsellor.
BK60A1400	Mechatronic Control Engineering (MCE)	3	Please contact your study counsellor.

EI LUENNOIDA 2017-18/NOT LECTURED IN 2017-18		Luennoidaan seuraavan kerran/Next time lectured in	
Tunniste/Code	Opintojakson nimi/Name of the course		
BK10A5100	Functional Intelligent Packages JEDI	18-19	
BK50A4200	Product Flow in Job Shops	18-19	

PERIODIMUUTOKSET/CHANGES TO TEACHING PERIODS			
Tunniste/Code	Opintojakson nimi/Name of the course	2016-17	2017-18
BK80A1402	Fatigue Design	3-4	1-2

Jatko-opintojaksomuutokset/Post-graduate course changes 2017-2018

UUDET OPINTOJAKSOT/NEW COURSES				
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Vuosikurssi/Year	Periodi/Period
BK30AJ105	Postgraduate Course in Advanced Digital Photonic Manufacturing*	10	Doctoral Studies	1-4
BK30AJ110	Postgraduate Course in Laser Based Additive Manufacturing and 3D Printing**	10	Doctoral Studies	1-4
BK30AJ115	Advanced Photonic Digital Products and Production***	10	Doctoral Studies	1-4

* Course will be lectured every third year. Next time in academic year 2017-2018.

** Course will be lectured every third year. Next time in academic year 2019-2020.

*** Course will be lectured every third year. Next time in academic year 2018-2019.

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

POISTUVAT OPINTOJAKSOT/COURSES REMOVED			
Tunniste/Code	Opintojakson nimi/Name of the course	Op/ECTS	Korvaava opintojakso (jos päätetty)/Replaced by the course (if any)

EI LUENNOIDA 2017-18/NOT LECTURED IN 2017-18		Luennoidaan seuraavan kerran/Next time lectured in	
Tunniste/Code	Opintojakson nimi/Name of the course		
BK10AJ005	Postgraduate Research Seminar in Mechanical Engineering	18-19	
BK30AJ110	Postgraduate Course in Laser Based Additive Manufacturing and 3D Printing	19-20	
BK30AJ115	Advanced Photonic Digital Products and Production	18-19	
BK60AJ130	Postgraduate Course in Modelling, Simulation and Control of Mechatronic Machines	18-19	
BK70AJ112	Postgraduate Course in Real-Time Multibody System Dynamics	18-19	
BK70AJ120	Computational Mechanics	18-19	

PERIODIMUUTOKSET/CHANGES TO TEACHING PERIODS			
Tunniste/Code	Opintojakson nimi/Name of the course	2016-17	2017-18
BK60AJ130	Postgraduate Course in Modelling, Simulation and Control of Mechatronic Machines	3-4	1-2