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Code	<b>ECE 506</b>
Name	<b>Advanced Theory of Power Electronics</b>
Hour per week	3 (3+0)
Credit	3
ECTS	10
Level/Year	Graduate / Master, Ph.D.
Semester	Spring
Type	Elective
Prerequisites	EE 451 Power Electronics
Content	Fundamental concepts in Power Electronics. DC Machine Drives. E-Class Converter Operating Principles. DC Motor Control with E-Class Converter. Operating E-Class Converter as a DC/AC Inverter. Harmonic Reduction Techniques in Inverters. Voltage Source Inverters-VSI PWM Techniques, Advantages and Disadvantages. New VSI Techniques, Advantages and Disadvantages. Forced Commutated Converters and Inverters. Forced Commutated Current Source Inverters-CSI. Resonant Power Converters

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