Course	code	25S	24F	24S	23F	23S	22F	22S	21F	21S	20F	20S	19F	19S	18F
Mechanical Engineering															
Advanced Dynamics	502		■		■		■		■		■		■		■
Dynamics of Nonlinear Systems	506														
Applied Optimal Control	507							■				■			
Modern Control	511		■		■		■		■		■		■		■
Vehicle Dynamics	513					■		■		■		■		■	
Kinematic Analysis of Mechanisms	519										■		■		
Principles of Robotics	522	■		■		■		■		■		■			
Computer Aided Design	533										■		■		■
Computer Control of Machines	534												■		
Design of Intelligent Machines	536		■		■		■		■		■				
Design of High Precision CNC Machinery	551														
Computer Engineering															
Deep Learning	501		■		■	■	■	■	■	■	■		■		■
Advanced Deep Learning	502			■		■		■						■	
Artificial Intelligence	561								■				■		■
Machine Learning	562	■	■	■	■	■	■	■			■		■		
Pattern Recognition	564												■		■
Multiagent Systems	580	■								■		■			
Computer Vision	583														
Fundamentals of Autonomous Robotics	585												■		
Robot Locomotion: Models and Algorithms	787													■	
Learning and Development in Robotics	88														
Computer Animation	732														
Planning of Robotic Manipulation	782														
Robot Motion Planning and Control	786		■		■		■		■		■				
Deep Generative Models	796			■		■		■		■		■			

Course	code	25S	24F	24S	23F	23S	22F	22S	21F	21S	20F	20S	19F	19S	18F
Electric Electronic Engineering															
Linear Systems Theory I	501		■		■		■		■		■		■		■
Linear Systems Theory II	502	■		■		■		■		■		■		■	
Neurocomputers and Deep Learning	543		■				■		■		■				■
Optimization	553		■		■		■		■		■		■		■
Optimal Control Theory	554		■			■						■		■	
Stability Theory of Dynamical Systems	555				■		■		■		■		■		■
Estimation Theory	557				■		■			■					
System Identification & Adaptive Control	558	■		■		■		■		■				■	
Intelligent Control	559					■		■		■		■		■	
Pattern Recognition	583		■		■		■		■		■		■		■
Machine Vision	584	■		■		■		■		■		■		■	
Probabilistic Robotics	585						■				■		■		■
Artificial Intelligence	586								■						
Introduction to Robotics	587		■		■		■		■		■		■		■
Robot Hand: Dynamics of Manipulation	588														
Machine Learning by Probabilistic Models	5420							■							
Discrete Event Systems: Modeling & Control	7551								■				■		■
Aerospace Engineering															
Advanced Mathematics for Engineers I	501		■		■		■		■		■		■		■
Advanced Mathematics for Engineers II	502	■		■		■		■		■		■		■	
Automatic Flight Control Systems	581		■		■		■		■		■		■		
Robust Control in Aerospace Systems	582					■					■			■	
Helicopter Dynamics, Stability and Control	584								■		■		■		■