

		PAKET / PACKAGE 1 (SPC)	PAKET / PACKAGE 2 (SPC+)
Özelleşilan Alan / Specialized Area  1  Signal Processing and Communications		<b>Signal Processing And Communications</b> <b>Sinyal İşleme ve Haberleşme</b> <b>1 Zorunlu/Required + 2 Seçmeli/Electives</b>	<b>Advanced Signal Processing And Communications</b> <b>İleri Sinyal İşleme ve Haberleşme</b> <b>1 Zorunlu/Required + 5 Seçmeli/Electives</b>
		<b>(Başarı kriteri / Satisfaction Criteria:</b> Bu derslerden not ortalaması en az 2.00 olan öğrenciler bu uzmanlık alanından başarılı olmuş sayılır / Students with a minimum GPA of 2.00 from these courses will be successful for this track)	<b>Başarı kriteri / Satisfaction Criteria:</b> 6 ders tamamlamak/ Complete at least 6 courses
		<b>EE 302 (M) AI Based Digital Signal Processing</b> EE 421 Digital Image Processing EE 422 Digital Speech Processing EE 423 Deep Learning for Signal Processing EE 444 Wireless Communications EE 450 Wireless Networks EE 432 Advanced MATLAB for Signal Processing CS 447 Computer Networks CS 423 Computer Vision	Courses of Package SPC <b>AND</b> CS 440 ML in Finance CS 446 Security for Network Technologies CS 454 Introduction to ML & ANN CS 466 Introduction to Deep Learning EE 432 Sinyal İşleme için İleri MATLAB CS 468 Contemporary Topics in Networking EE 442 Introduction to Digital Communication CS 304 Introduction to Artificial Intelligence, Machine Learning, and Data Science

		PAKET / PACKAGE 1 (CAS)	PAKET / PACKAGE 2 (CAS+)
Özelleşilan Alan / Specialized Area  2  Circuits & Systems		<b>Circuits And Systems</b> <b>Devreler ve Sistemler</b> <b>1 Zorunlu/Required + 2 Seçmeli/Electives</b>	<b>Advanced Circuits And Systems</b> <b>İleri Devreler ve Sistemler</b> <b>2 Zorunlu/Required+ 4 Seçmeli/Electives</b>
		<b>(Başarı kriteri / Satisfaction Criteria:</b> Bu derslerden not ortalaması en az 2.00 olan öğrenciler bu uzmanlık alanından başarılı olmuş sayılır / Students with a minimum GPA of 2.00 from these courses will be successful for this track)	<b>Başarı kriteri / Satisfaction Criteria:</b> 6 ders tamamlamak/ Complete at least 6 courses
		<b>EE 350 (M) Electronics II</b> EE 302 AI Based Digital Signal Processing EE 367 Introduction to Optics EE 457 System Level RF design EE 480 Advanced Optoelectronics: Innovative Design EE 483 Microwave Circuits and Devices EE 484 Antennas EE 486 Quantum Information Technologies EE 488 Photonics	Courses of Package CAS <b>AND</b> <b>EE 302 (M) AI Based Digital Signal Processing</b> EE 423 Deep Learning for Signal Processing EE 442 Introduction to Digital Communication EE 444 Wireless Communications EE 458 Circuit Level RF design CS 304 Introduction to Artificial Intelligence, Machine Learning, and Data Science

		PAKET / PACKAGE 1 (DSS)	PAKET / PACKAGE 2 (DSS+)
Özelleşilan Alan / Specialized Area  3  Digital Systems & Software		<b>Digital Systems &amp; Software</b> <b>Dijital Sistemler ve Yazılım</b> <b>2 Zorunlu/Required + 1 Seçmeli/Electives</b>	<b>Advanced Digital Systems &amp; Software</b> <b>İleri Dijital Sistemler ve Yazılım</b> <b>2 Zorunlu/Required + 4 Seçmeli/Electives</b>
		<b>(Başarı kriteri / Satisfaction Criteria:</b> Bu derslerden not ortalaması en az 2.00 olan öğrenciler bu uzmanlık alanından başarılı olmuş sayılır / Students with a minimum GPA of 2.00 from these courses will be successful for this track)	<b>Başarı kriteri / Satisfaction Criteria:</b> 6 ders tamamlamak/ Complete at least 6 courses
		<b>EE 462 (M) Digital Electronics and FPGA Design (yeni kodu EE 362)</b> <b>CS 201 (M) Data Structures and Algorithms</b> EE 302 AI Based Digital Signal Processing EE 421 Digital Image Processing EE 422 Digital Speech Processing EE 491 Control Systems EE 497 Introduction to Automotive Embedded Software ME 417 Mechatronics CS 240 Computer Architecture CS 320 Software Engineering One from CS Minor Course List (CS202, CS321, CS333, CS350, CS410, CS447)	Courses of Package DSS <b>AND</b> CS 105 or CS 102 Object-Oriented Programming CS 304 Introduction to Artificial Intelligence, Machine Learning, and Data Science EE 208 Course Name / Dersin Adı Fundamental Programming Concepts in C / C kullanarak Temel Programlama <b>Note:</b> Paket 1'in tamamlanması için CS201 zorunlu derstir. CS105 dersi CS201 dersinin önkoşuludur. CS105 dersi Paket 1'in içerisinde değerlendirilmemiştir. Öğrencilerin Paket 1 listesinden bir başka dersi alması gerekmektedir. <b>Note:</b> CS201 is a mandatory course for completion of Package 1. The CS105 course is the prerequisite for the CS201 course. The CS105 course is not included in Package 1. Students must take another course from the Package 1 list.

		PAKET / PACKAGE 1 (PES)	PAKET / PACKAGE 2 (PES+)
Özelleşilan Alan / Specialized Area  4  Power & Energy Systems		<b>Power &amp; Energy Systems</b> <b>Güç ve Enerji Sistemleri</b> <b>1 Zorunlu/Required + 2 Seçmeli/Electives</b>	<b>Advanced Power &amp; Energy Systems</b> <b>İleri Güç ve Enerji Sistemleri</b> <b>2 Zorunlu/Required + 4 Seçmeli/Electives</b>
		<b>(Başarı kriteri / Satisfaction Criteria:</b> Bu derslerden not ortalaması en az 2.00 olan öğrenciler bu uzmanlık alanından başarılı olmuş sayılır / Students with a minimum GPA of 2.00 from these courses will be successful for this track)	<b>Başarı kriteri / Satisfaction Criteria:</b> 6 ders tamamlamak/ Complete at least 6 courses
		<b>EE 303 (M) Fundamentals of Power Systems</b> EE 302 AI Based Digital Signal Processing EE 372 Basics of Electric Machines EE 473 Energy Systems EE 474 Optimization for Engineers EE 475 E-Mobility Ecosystem EE 476 Energy Markets and Policies EE 493 Power Electronics ME 417 Mechatronics ME 419 Computational Methods for Engineers	Courses Package PES <b>AND</b> <b>EE 473 (M) Energy Systems</b> IE 357 Energy Insights CS 440 ML in Finance CS 454 Introduction to ML & ANN IE 203 Engineering Economics CS 304 Introduction to Artificial Intelligence, Machine Learning, and Data Science