

แผนการเปิดรายวิชา ภาควิชาวิศวกรรมไฟฟ้า ปีการศึกษา ๒๕๕๗

ฉบับวันที่ ๒๘ พฤษภาคม ๒๕๕๗

| ลำดับ | รหัสวิชา | รายวิชา | ภาคต้น | | ภาคปลาย | | ภาคฤดูร้อน | |
|-------|----------|---|--------|-------|---------|-------|------------|-------|
| | | | ปกติ | พิเศษ | ปกติ | พิเศษ | ปกติ | พิเศษ |
| 1 | 01205201 | Introduction to Electrical Engineering | 3 | 3 | 3 | 3 | | |
| 2 | 01205202 | Electrical Engineering Laboratory I | 3 | 2 | 5 | 2 | | |
| 3 | 01205203 | Electronics for Computer Engineers | | | 0 | | | |
| 4 | 01205204 | General Electronics I | 1 | | | | | |
| 5 | 01205205 | General Electronics II | | | 1 | | | |
| 6 | 01205211 | Electric Circuit Analysis I | 3 | 3 | 1 | 1 | | |
| 7 | 01205212 | Electric Circuit Analysis II | | | 2 | 2 | 1 | 1 |
| 8 | 01205213 | Electric Circuit Laboratory | | | 3 | 3 | | |
| 9 | 01205216 | Computer Programming for Electrical Eng. | 2 | 2 | 1 | 1 | | |
| 10 | 01205217 | Applied Linear Algebra In Electrical Eng. | 1 | 1 | 0 | 0 | | |
| 11 | 01205217 | Electrical Engineering Mathematics | | | 2 | 2 | | |
| 12 | 01205218 | Introduction to Power & Communication Systems | | | 0 | 0 | | |
| 13 | 01205221 | Telecommunication Engineering | 2 | 2 | | | | |
| 14 | 01205231 | Electronic Circuits & Systems I | | | 3 | 3 | 1 | 1 |
| 15 | 01205232 | Digital Circuits & Logic Design | 1 | 1 | 2 | 2 | | |
| 16 | 01205251 | Electromechanical Energy Conversion I | | | 2 | 2 | 1 | 1 |
| 17 | 01205252 | Introduction to Electric Power System | | | 2 | 2 | | |
| 18 | 01205291 | Electrical Practice | 2 | 2 | | | | |
| 19 | 01205303 | Electronics Laboratory for Computer Engineers | 1 | | | | | |
| 20 | 01205305 | Digital Circuits & Microcontrollers | 1 | 1 | | | | |
| 21 | 01205306 | Digital Circuits & Microcontrollers Lab. | | | 1 | 1 | | |
| 22 | 01205311 | Signals & Systems | 2 | 2 | 1 | 1 | | |
| 23 | 01205312 | Applied Probability for Electrical Engineers | 2 | 2 | 1 | 1 | | |
| 24 | 01205314 | Digital Signal Processing | 1 | 1 | | | | |
| 25 | 01205315 | Digital Signal Processing Laboratory | | | 1 | 1 | | |
| 26 | 01205319 | Electrical Engineering Materials | 1 | 1 | | | | |
| 27 | 01205321 | Principles of Communications | | | 1 | 1 | | |
| 28 | 01205322 | Digital Communications | 1 | 1 | | | | |
| 29 | 01205323 | Communications Laboratory | 1 | 1 | | | | |
| 30 | 01205324 | Telecommunication Engineering | 1 | 1 | | | | |
| 31 | 01205327 | Data Communications & Networks I | 1 | 1 | | | | |
| 32 | 01205331 | Electronic Circuits & Systems II | 2 | 1 | 1 | 1 | | |
| 33 | 01205332 | Electronics Laboratory | 3 | 3 | | | | |
| 34 | 01205333 | Advanced Electronics Laboratory | | | 1 | 1 | | |
| 35 | 01205334 | Solid-State Electronics | | | 1 | 1 | | |
| 36 | 01205335 | Microprocessor | 3 | 2 | 1 | 1 | | |
| 37 | 01205336 | Microprocessor Laboratory | | | 1 | 1 | | |
| 38 | 01205337 | Electronic circuit Design | 1 | 1 | | | | |

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|-------|----------|---|--------|-------|---------|-------|------------|-------|
| | | | ปกติ | พิเศษ | ปกติ | พิเศษ | ปกติ | พิเศษ |
| 39 | 01205338 | VLSI Systems | | | 1 | 1 | | |
| 40 | 01205339 | Industrial Electronics | | | 1 | 1 | | |
| 41 | 01205341 | Electromagnetic Fields & Waves I | 2 | 2 | 1 | 1 | | |
| 42 | 01205343 | Passive Radio Frequency Circuit Design | | | 0 | | | |
| 43 | 01205351 | Electromechanical Energy Conversion II | 2 | 2 | 1 | 1 | | |
| 44 | 01205352 | Electromechanical Energy Conversion Lab. I | 4 | 3 | | | | |
| 45 | 01205353 | Electromechanical Energy Conversion Lab. II | | | 2 | 2 | | |
| 46 | 01205354 | Power Systems in Building | | | 2 | 2 | | |
| 47 | 01205355 | Elec. Power System Analysis I | | | 1 | 1 | | |
| 48 | 01205356 | High-Voltage Engineering | | | 1 | 1 | | |
| 49 | 01205361 | Electrical Measurements & Instruments I | 1 | 1 | 2 | 2 | | |
| 50 | 01205362 | Linear Control Systems | 1 | 1 | 2 | 2 | | |
| 51 | 01205363 | Control and Measurement Laboratory | | | 1 | 1 | | |
| 52 | 01205364 | Digital Control Systems | 1 | 1 | | | | |
| 53 | 01205365 | Industrial Automation and Control | 1 | 1 | | | | |
| 54 | 01205366 | Industrial Auto.and Control Laboratory | 1 | 1 | | | | |
| 55 | 01205371 | Hard Drive Technology & Manufacturing | | | 1 | 1 | | |
| 56 | 01205381 | Embedded System Design | | | 1 | | | |
| 57 | 01205412 | Complex Analysis in Electrical Engineering | | | 1 | 1 | | |
| 58 | 01205414 | Digital Signal Processing Design & Implement. | | | 1 | 1 | | |
| 59 | 01205415 | Digital Image Processing | 1 | 1 | | | | |
| 60 | 01205423 | Applied Coding | | | 1 | 1 | | |
| 61 | 01205424 | Digital Telephone System | 1 | | | | | |
| 62 | 01205425 | Visual Communications | 0 | 0 | | | | |
| 63 | 01205427 | Data Communications & Networks II | | | 1 | 1 | | |
| 64 | 01205428 | Wireless Communications | | | 1 | 1 | | |
| 65 | 01205429 | Satellite Communications | | | 1 | 1 | | |
| 66 | 01205431 | Microelectronics Processing & Device Modeling | 1 | 1 | | | | |
| 67 | 01205432 | Optical devices | 1 | 1 | | | | |
| 68 | 01205433 | Semiconductor Sensors | | | 1 | 1 | | |
| 69 | 01205437 | Power Electronics for Energy Conservation | | | 0 | 0 | | |
| 70 | 01205438 | Analog IC Application Design | | | 1 | 1 | | |
| 71 | 01205442 | Antenna Engineering | 1 | 1 | | | | |
| 72 | 01205443 | Antenna Laboratory | | | 1 | | | |
| 73 | 01205444 | Microwave Engineering | | | 1 | 1 | | |
| 74 | 01205445 | Microwave Engineering Laboratory | 1 | | | | | |
| 75 | 01205447 | Optical Fiber Communications | | | 1 | 1 | | |
| 76 | 01205452 | Electric Drive | | | 1 | 1 | | |
| 77 | 01205453 | Electric Power Plants | | | 1 | 1 | | |
| 78 | 01205454 | Electric Power System Analysis II | 1 | 1 | | | | |
| 79 | 01205456 | High-Voltage Engineering Laboratory | 2 | 1 | | | | |

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|-------|----------|---|--------|-------|---------|-------|------------|-------|
| | | | ปกติ | พิเศษ | ปกติ | พิเศษ | ปกติ | พิเศษ |
| 80 | 01205457 | Power System Protection | | | 1 | 1 | | |
| 81 | 01205458 | Harmonics in Power Systems | 1 | 1 | | | | |
| 82 | 01205461 | Introduction to Dynamic Control | | | 0 | 0 | | |
| 83 | 01205462 | Process Control | | | 1 | 1 | | |
| 84 | 01205463 | Process Control Laboratory | | | | | | |
| 85 | 01205464 | Computer Control of Machines and Processes | | | 1 | 1 | | |
| 86 | 01205465 | Real-Time Computer Control | | | 1 | 1 | | |
| 87 | 01205466 | Introduction to Robotic Systems | 1 | 1 | | | | |
| 88 | 01205469 | App. Artificial Neural Networks & Fuzzy Logic | | | 1 | 1 | | |
| 89 | 01205471 | Distributed Electric Generation System | 1 | 1 | | | | |
| 90 | 01205481 | Biomedical Electronics | 1 | 1 | | | | |
| 91 | 01205482 | Illumination Engineering | 1 | 1 | | | | |
| 92 | 01205485 | Elec. Sys. & Signal Sys. in Building | 1 | 1 | | | | |
| 93 | 01205486 | Power Electronics | 2 | 2 | | | | |
| 94 | 01205491 | Electrical Engineering Project I | 1 | 1 | | | | |
| 97 | 01205497 | Seminar | 4 | 3 | | | | |
| 98 | 01205499 | Electrical Engineering Project II | | | 1 | 1 | | |
| 99 | 01205511 | Applied Mathematics for Electrical Eng. | 1 | | | | | |
| 100 | 01205512 | Stochastic process | 1 | | | | | |
| 101 | 01205513 | Numerical Analysis for Electrical Engineers | 1 | | 1 | | | |
| 102 | 01205514 | Signal Processing Theory | 1 | | | | | |
| 103 | 01205515 | Image Processing and Representation | 1 | | | | | |
| 104 | 01205516 | Computer & Robot Vision | | | 1 | | | |
| 105 | 01205517 | Remote Sensing & Interpretation | 1 | | | | | |
| 106 | 01205518 | Principle of Machine Learning | | | 1 | | | |
| 107 | 01205519 | Pattern Recognition | | | 1 | | | |
| 108 | 01205521 | Digital Communications Systems | 1 | | | | | |
| 109 | 01205522 | Signal Detection & Estimation | | | 1 | | | |
| 110 | 01205524 | Source Coding Theory & Data Compressing | 1 | | | | | |
| 111 | 01205525 | Channel Coding Theory | | | 1 | | | |
| 112 | 01205526 | Multiuser Wireless Communications | | | 1 | | | |
| 113 | 01205527 | Data Communications Networks | 0 | | | | | |
| 114 | 01205528 | Wireless Communication System Design | 1 | | | | | |
| 115 | 01205529 | Wireless Sensor Networks | | | 1 | | | |
| 116 | 01205531 | Digital System Design | 1 | | | | | |
| 117 | 01205532 | Analog Integrated Circuits | 1 | | | | | |
| 118 | 01205533 | Digital Integrated Circuit | | | 1 | | | |
| 119 | 01205535 | Sensor Technology | 1 | | | | | |
| 120 | 01205536 | Optoelectronic Devices | | | 1 | | | |
| 121 | 01205538 | Solar Cell Technology | | | 1 | | | |
| 122 | 01205541 | Advanced Electromagnetic Theory | 1 | | | | | |

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|-------|----------|--|--------|-------|---------|-------|------------|-------|
| | | | ปกติ | พิเศษ | ปกติ | พิเศษ | ปกติ | พิเศษ |
| 123 | 01205547 | Optical Communications Theory | 0 | | | | | |
| 124 | 01205548 | Computer and Communication Network for Power Systems | 0 | | | | | |
| 125 | 01205551 | Power System Transients | 1 | | | | | |
| 126 | 01205552 | Power System Stability | 1 | | | | | |
| 127 | 01205553 | Power System Operation & Control | 1 | | | | | |
| 128 | 01205554 | Power System Protection Engineering | | | 1 | | | |
| 129 | 01205556 | Computer Methods of Power System | 1 | | | | | |
| 130 | 01205557 | Power System Quality Engineering | 1 | | 0 | | | |
| 131 | 01205558 | Power Systems Planning | 1 | | | | | |
| 132 | 01205559 | Economic Operation of Power Systems | | | 1 | | | |
| 133 | 01205561 | Dynamical Systems & Control | 1 | | | | | |
| 134 | 01205562 | Digital Control of Dynamic Systems | 1 | | | | | |
| 135 | 01205563 | Nonlinear Control Systems | | | 1 | | | |
| 136 | 01205564 | Optimum Control | | | 1 | | | |
| 137 | 01205568 | Robotic Theory & Design | 1 | | | | | |
| 138 | 01205571 | Dynamics of Electrical Machines | | | 0 | | | |
| 139 | 01205572 | Model.Con.Three-Phase Pulse Width Modu.Con. | 1 | | | | | |
| 140 | 01205575 | Unbalanced Fault Analysis | | | 1 | | | |
| 141 | 01205576 | Advanced High Voltage Engineering | | | 1 | | | |
| 142 | 01205577 | Distributed Generation and Energy Storage | 0 | | | | | |
| 143 | 01205578 | Electric Power Distri. System Reliability | 1 | | | | | |
| 144 | 01205579 | Smart Grid Components and Advanced Control Method | 1 | | | | | |
| 145 | 01205581 | Computer System Architecture | | | 0 | | | |
| 146 | 01205582 | Operating System | 0 | | | | | |
| 147 | 01205584 | Data Mining for Electrical Engineers | 1 | | | | | |
| 148 | 01205587 | Biomedical Instrumentation and Design | | | 1 | | | |
| 149 | 01205589 | Smart Grid Integration and Management | | | 1 | | | |
| 150 | 01205591 | Research Methods in Electrical Engineering | 2 | | 1 | | | |
| 151 | 01205596 | Selected Topics in Electrical Engineering | | | 1 | | | |
| 152 | 01205597 | Seminar | 5 | | 5 | | | |
| 153 | 01205598 | Special problems | | | 0 | | | |
| 154 | 01205599 | Thesis | 1 | | 1 | | | |
| 155 | 01205691 | Advanced Research Methods in Electrical Engineering | 0 | | 1 | | | |
| 156 | 01205696 | Selected Topics in Electrical Engineering | 2 | | | | | |
| 157 | 01205697 | Seminar | 2 | | 2 | | | |
| 158 | 01205698 | Special problems | 1 | | | | | |
| 159 | 01205699 | Thesis | 1 | | 1 | | | |