

EE Curriculum

Bachelor of Engineering Program in Electrical Engineering (Communication Engineering) English Program

Program Structure

(1) General Education	30 Credits
- Wellness	6 Credits
- Entrepreneurship	3 Credits
- Language and Communication	13 Credits
- Thai Citizen and Global Citizen	5 Credits
- Aesthetics	3 Credits
(2) Specific Courses	106 Credits
2.1 Basic Course	33 Credits
2.1.1 Basic Mathematics and Science Courses	21 Credits
2.1.2 Basic Engineering Courses	12 Credits
2.2 Major Course	73 Credits
2.2.1 Major Required Courses	32 Credits
2.2.2 Major Elective Courses	41 Credits
(3) Free Electives	6 Credits

2.1 Basic Course	33 Credits
2.1.1 Basic Mathematics and Science Courses	21 Credits
01403114 Laboratory in Fundamentals of General Chemistry	1(0-3-2)
01403117 Fundamental of General Chemistry	3(3-0-6)
01417167 Engineering Mathematics I	3(3-0-6)
01417168 Engineering Mathematics II	3(3-0-6)
01417267 Engineering Mathematics III	3(3-0-6)
01420111 General Physics I	3(3-0-6)
01420112 General Physics II	3(3-0-6)
01420113 Laboratory in Physics I	1(0-3-2)
01420114 Laboratory in Physics II	1(0-3-2)

2.1.2 Basic Engineering Courses	12 Credits
01204111 Computers and Programming	3(2-3-6)
01208111 Engineering Drawing	3(2-3-6)
01208221 Engineering Mechanics I	3(3-0-6)
01213211 Materials Science for Engineers	3(3-0-6)
2.2 Major Course	73 Credits
2.2.1 Major Required Courses	32 Credits
01205211 Electric Circuit Analysis I	3(3-0-6)
01205213 Electronics and Electrical Engineering Laboratory	1(0-3-2)
01205214 Electrical Machines Laboratory and Electrical Practices	1(0-3-2)
01205215 Computer Programming for Electrical Engineers	3(3-0-6)
01205216 Signals and Systems	3(3-0-6)
01205217 Electromagnetic Fields and Waves	3(3-0-6)
01205218 Electrical Measurements and Instruments	3(3-0-6)
01205241 Digital Circuits and Logic Design	3(3-0-6)
01205242 Electronic Circuits and Systems I	3(3-0-6)
01205251 Electromechanical Energy Conversion I	3(3-0-6)
01205311 Microprocessor	3(3-0-6)
01205312 Linear Control Systems	3(3-0-6)
2.2.2 Major Elective Courses	41 Credits
01205219 Applied Probability for Electrical Engineering	3(3-0-6)
01205321 Principles of Communications	3(3-0-6)
01205342 Digital Communications	3(3-0-6)
01205325 Communication Network and Transmission Lines	3(3-0-6)
01205326 Data Communications and Networks I	3(3-0-6)
01205327 Mobile Communications	3(3-0-6)
01205329 Antenna Engineering	3(3-0-6)
01205323 Digital Signal Processing	3(3-0-6)

01205381	Communication Architecture and Devices Laboratory	1(0-3-2)
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01205382	Communication Systems and Networks Laboratory	1(0-3-2)
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- Choose at least 3 EE elective courses (01205xxx - 9 credits)

- For students who do not participate in cooperative education/exchange program.

01205399	Internship	1
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01205491	Electrical Engineering Project I	1(0-3-2)
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01205497	Seminar	1
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01205499	Electrical Engineering Project II	3(0-9-5)
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- For students who participate in cooperative education.

01205490	Co-operative Education	6
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3. Free Electives

6 Credit