

Study plan

Semester 1 of Year 1

Subject Code	Subject Name	Number of Credits*
200-102	Into Engineering World	1((1)-0-2)
200-112	Fundamental Mathematics for Engineer	3((3)-0-6)
200-113	Fundamental Physics for Engineer	3((3)-0-6)
200-114	Fundamental Chemistry for Engineer	3((3)-0-6)
200-116	Basic Engineering Programming	3((2)-2-5)
200-117	Basic Engineering Drawing	2((1)-2-3)
200-118	Fundamental Physics for Engineer II	3((3)-0-6)
200-119	Physics Laboratory for Engineer II	1(0-2-1)
890-00xG1	Gen Ed Area 6: Language and Communication	2((2)-0-4)
	Total	21((18)-6-39)

*Number of Credits (Theory – Practical – Self-Study)

Semester 2 of Year 1		
Subject Code	Subject Name	Number of Credits*
322-111	Differential Equations	3((3)-0-6)
333-112	Fundamental Physics Laboratory for Engineers	1(0-3-0)
325-107	Basic Chemistry Laboratory for Engineers	1(0-2-1)
212-101	Electrical Engineering Laboratory I	1(0-3-0)
212-111	Electric Circuits	3((3)-0-6)
212-131	Principles of Electronics	2((2)-0-4)
212-181	Linear Algebra	3((3)-0-6)
212-191	Digital Systems	3((3)-0-6)
200-103G7	Modern Life for Green Love	2((2)-0-4)
890-00xG1	Gen Ed Area 6: Language and Communication	2((2)-0-4)
	Total	21((18)-8-37)

Study plan for Power Engineering

Semester 1 of Year 2 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
322-110	Vector Calculus	3((3)-0-6)
212-202	Electrical Engineering Laboratory II	1(0-3-0)
212-212	Network and Linear Systems Analysis	2((2)-0-4)
212-221	Electromechanical Energy Conversion	3((3)-0-6)
212-232	Electronic Circuits	2((2)-0-4)
212-241	Signals and Systems	3((3)-0-6)
212-291	Microcontroller I	2((1)-3-2)
212-292	Data Communications and Computer Networking	3((3)-0-6)
XXX-XXXG2A	Gen Ed Area 5: Logical and Numerical Reasoning (Compulsory)	2((2)-0-4)
	Total	21((19)-6-38)
Semester 2 of Year 2 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
221-101	Engineering Mechanics I	3((3)-0-6)
238-111	Engineering Materials	2((2)-0-4)
212-203	Mini Project	1(0-3-0)
212-204	Electrical Instruments and Measurements	3((3)-0-6)
212-205	Power Engineering Laboratory I	1(0-3-0)
212-222	Electrical Power Generation and Transmission	3((3)-0-6)
212-223	Power Electronics	3((3)-0-6)
212-251	Electromagnetic Field Theory	3((3)-0-6)
XXX-XXXG6	Gen Ed Area 2: Citizenship and Peaceful Living	2((2)-0-4)
	Total	21((19)-6-38)

Semester 1 of Year 3 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
212-282	Probability	3((3)-0-6)
212-301	Power Engineering Laboratory II	1(0-3-0)
212-312	Illumination Engineering	3((3)-0-6)
212-324	Power System Analysis	3((3)-0-6)
212-325	Electric Drive Systems	3((3)-0-6)
212-340	Control Systems Laboratory	1(0-3-0)
212-342	Continuous-Time Control Systems	3((3)-0-6)
XXX-XXXG4	Gen Ed Area 4: Digital Technology	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	21((19)-6-38)
Semester 2 of Year 3 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
347-208	Basic Statistics for Engineers	3((3)-0-6)
212-302	Power Engineering Laboratory III	1(0-3-0)
212-307	Project Preparation	1(0-2-1)
212-313	Electrical System Design and Installation	3((3)-0-6)
212-314	High Voltage Engineering	3((3)-0-6)
212-326	Power System Protection	3((3)-0-6)
XXX-XXXG2B	Gen Ed Area 5: Systematic Thinking (Compulsory)	2((2)-0-4)
XXX-XXXG5	Gen Ed Area 1: Health for All	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	20((18)-5-37)

Semester 3 (Summer) of Year 3 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
212-300	Practical Training	No less than 320 hours

Semester 1 of Year 4 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
212-401	Electrical Engineering Capstone Project I	3(0-9-0)
212-403	Seminar	1(0-2-1)
212-421	Renewable Energy and Energy Storage Systems	3((3)-0-6)
XXX-XXXG3	Gen Ed Area 3: Entrepreneurial thinking	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
XXX-XXX	Free Elective Course	3(x-y-z)
XXX-XXX	Free Elective Course	3(x-y-z)
	Total	17((x)-y-z)

Internship and Project Study Plan

Semester 2 of Year 4 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
212-402	Electrical Engineering Capstone Project II	3(0-9-0)
212-XXX	Specialized Elective Course	3((3)-0-6)
	Total	6((3)-9-6)

Cooperative Education Study Plan

Semester 2 of Year 4 for Power Engineering		
Subject Code	Subject Name	Number of Credits*
212-404	Cooperative Education	6(0-40-0)
	Total	6(0-40-0)

Study plan for Telecommunication Engineering

Semester 1 of Year 2 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
322-110	Vector Calculus	3((3)-0-6)
212-202	Electrical Engineering Laboratory II	1(0-3-0)
212-212	Network and Linear Systems Analysis	2((2)-0-4)
212-221	Electromechanical Energy Conversion	3((3)-0-6)
212-232	Electronic Circuits	2((2)-0-4)
212-241	Signals and Systems	3((3)-0-6)
212-291	Microcontroller I	2((1)-3-2)
212-292	Data Communications and Computer Networking	3((3)-0-6)
XXX-XXXG2A	Gen Ed Area 5: Logical and Numerical Reasoning (Compulsory)	2((2)-0-4)
	Total	21((19)-6-38)
Semester 2 of Year 2 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
221-101	Engineering Mechanics I	3((3)-0-6)
238-111	Engineering Materials	2((2)-0-4)
212-203	Mini Project	1(0-3-0)
212-204	Electrical Instruments and Measurements	3((3)-0-6)
212-207	Telecommunications Laboratory I	1(0-3-0)
212-251	Electromagnetic Field Theory	3((3)-0-6)
212-253	Optical Communications	3((3)-0-6)
212-282	Probability	3((3)-0-6)
XXX-XXXG6	Gen Ed Area 2: Citizenship and Peaceful Living	2((2)-0-4)
	Total	21((19)-6-38)

Semester 1 of Year 3 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
212-305	Telecommunications Laboratory II	1(0-3-0)
212-340	Control Systems Laboratory	1(0-3-0)
212-342	Continuous-Time Control Systems	3((3)-0-6)
212-352	Principle of Communication Systems	3((3)-0-6)
212-353	Transmission Lines and Its Applications in Modern Communication Circuits	3((3)-0-6)
212-361	Routing and Switching: Entry Level	3((2)-3-4)
XXX-XXXG4	Gen Ed Area 4: Digital Technology	2((2)-0-4)
XXX-XXXG5	Gen Ed Area 1: Health for All	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	20((17)-9-34)
Semester 1 of Year 3 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
347-208	Basic Statistics for Engineers	3((3)-0-6)
212-306	Telecommunications Laboratory III	1(0-3-0)
212-307	Project Preparation	1(0-2-1)
212-354	Digital Communications	3((3)-0-6)
212-355	Microwave Engineering and Its Applications	3((3)-0-6)
212-356	Antenna Engineering	3((3)-0-6)
212-362	Routing and Switching: Intermediate Level	3((2)-3-4)
XXX-XXXG2B	Gen Ed Area 5: Systematic Thinking (Compulsory)	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	21((18)-8-37)

Semester 3 (Summer) of Year 3 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
212-300	Practical Training	No less than 320 hours

Semester 1 of Year 4 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
212-401	Electrical Engineering Capstone Project I	3(0-9-0)
212-403	Seminar	1(0-2-1)
212-451	Mobile Broadband Networks	3((3)-0-6)
XXX-XXXG3	Gen Ed Area 3: Entrepreneurial thinking	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
XXX-XXX	Free Elective Course	3(x-y-z)
XXX-XXX	Free Elective Course	3(x-y-z)
	Total	17((x)-y-z)

Internship and Project Study Plan

Semester 2 of Year 4 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
212-402	Electrical Engineering Capstone Project II	3(0-9-0)
212-XXX	Specialized Elective Course	3((3)-0-6)
	Total	6((3)-9-6)

Cooperative Education Study Plan

Semester 2 of Year 4 for Telecommunication Engineering		
Subject Code	Subject Name	Number of Credits*
212-404	Cooperative Education	6(0-40-0)
	Total	6(0-40-0)

Study plan for Electronic Engineering

Semester 1 of Year 2 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
322-110	Vector Calculus	3((3)-0-6)
212-202	Electrical Engineering Laboratory II	1(0-3-0)
212-212	Network and Linear Systems Analysis	2((2)-0-4)
212-221	Electromechanical Energy Conversion	3((3)-0-6)
212-232	Electronic Circuits	2((2)-0-4)
212-241	Signals and Systems	3((3)-0-6)
212-291	Microcontroller I	2((1)-3-2)
212-292	Data Communications and Computer Networking	3((3)-0-6)
XXX-XXXG2A	Gen Ed Area 5: Logical and Numerical Reasoning (Compulsory)	2((2)-0-4)
	Total	21((19)-6-38)

Semester 2 of Year 2 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
221-101	Engineering Mechanics I	3((3)-0-6)
238-111	Engineering Materials	2((2)-0-4)
212-203	Mini Project	1(0-3-0)
212-204	Electrical Instruments and Measurements	3((3)-0-6)
212-206	Electronics Laboratory I	1(0-3-0)
212-233	Electronics Circuits and Systems	3((3)-0-6)
212-242	Discrete Time Signal Processing	3((3)-0-6)
212-251	Electromagnetic Field Theory	3((3)-0-6)
XXX-XXXG6	Gen Ed Area 2: Citizenship and Peaceful Living	2((2)-0-4)
	Total	21((19)-6-38)

Semester 1 of Year 3 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
212-223	Power Electronics	3((3)-0-6)
212-282	Probability	3((3)-0-6)
212-303	Electronics Laboratory I	1(0-3-0)
212-340	Control Systems Laboratory	1(0-3-0)
212-342	Continuous-Time Control Systems	3((3)-0-6)
212-XXX	Specialized Elective Course	3((3)-0-6)
212-XXX	Specialized Elective Course	3((3)-0-6)
XXX-XXXG4	Gen Ed Area 4: Digital Technology	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	21((19)-6-38)

Semester 2 of Year 3 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
347-208	Basic Statistics for Engineers	3((3)-0-6)
212-304	Electronics Laboratory III	1(0-3-0)
212-307	Project Preparation	1(0-2-1)
212-344	Model-Based Control System Design	3((3)-0-6)
212-XXX	Specialized Elective Course	3((3)-0-6)
212-XXX	Specialized Elective Course	3((3)-0-6)
XXX-XXXG2B	Gen Ed Area 5: Systematic Thinking (Compulsory)	2((2)-0-4)
XXX-XXXG5	Gen Ed Area 1: Health for All	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
	Total	20((18)-5-37)

Semester 3 (Summer) of Year 3 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
212-300	Practical Training	No less than 320 hours

Semester 1 of Year 4 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
212-401	Electrical Engineering Capstone Project I	3(0-9-0)
212-403	Seminar	1(0-2-1)
212-XXX	Specialized Elective Course	3((3)-0-6)
XXX-XXXG3	Gen Ed Area 3: Entrepreneurial thinking	2((2)-0-4)
XXX-XXXG8	Gen Ed Elective Course	2((2)-0-4)
XXX-XXX	Free Elective Course	3(x-y-z)
XXX-XXX	Free Elective Course	3(x-y-z)
	Total	17((x)-y-z)

Internship and Project Study Plan

Semester 2 of Year 4 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
212-402	Electrical Engineering Capstone Project II	3(0-9-0)
212-XXX	Specialized Elective Course	3((3)-0-6)
	Total	6((3)-9-6)

Cooperative Education Study Plan

Semester 2 of Year 4 for Electronic Engineering		
Subject Code	Subject Name	Number of Credits*
212-404	Cooperative Education	6(0-40-0)
	Total	6(0-40-0)