

Department of Electrical and Electronics Engineering

elec.ku.edu.np/static-page/b.e_power--control_20202021batch

First Year Course Structure

First Year First Semester			
S.N	Course Code	Course Title	Credit Hours
1	MATH 101	Calculus and Linear Algebra	3
2	PHYS 101	General Physics I	3
3	CHEM 101	General Chemistry	3
4	COMP 102	Computer Programming	3
5	ENGG 111	Elements of Engineering I	3
6	EDRG 101	Engineering Drawing I	2
7	ENGG 101	Engineering Project Preparation & Workshop Practice	2
Total			19
First Year Second Semester			
S.N	Course Code	Course Title	Credit Hours
1	MATH 104	Advanced Calculus	3
2	PHYS 102	General Physics II	3
3	ENVE 101	Introduction to Environmental Engineering	2

4	COMP 116	Object-Oriented Programming	3
5	ENGT 105	Technical Communication	3
6	ENGG 112	Elements of Engineering II	3
7	EDRG 102	Engineering Drawing II	2
8	ENGG 102	Engineering Project	2
Total			21

Second Year Course Structure

Second Year First Semester			
S.N	Course Code	Course Title	Credit Hours
1	MATH 207	Differential Equations and Complex Variables	4
2	EEEG 202	Digital Logic	3
3	EEEG 211	Electronics Engineering I	3
4	EEEG 207	Electrical Engineering Materials	3
5	EEEG 213	Network Analysis	3
6	EEEG 217	Digital Electronics Laboratory Work	1
7	EEEG 218	Analog Electronics Laboratory Work	1
8	EEEG 205	Engineering Project	1
Total			19

Second Year Second Semester			
S.N	Course Code	Course Title	Credit Hours
1	MATH 208	Probability and Statistics for Engineers	3
2	MCSC 202	Numerical Methods	3
3	EEEG 214	Electronics Engineering II	3
4	EEEG 221	Signals and Systems	3
5	EEEG 215	Electrical Machinery Fundamentals	3
6	EEEG 219	Electrical Machines Laboratory Work	1
7	EEEG 222	Electronics and Signals Systems Laboratory Work	1
8	EEEG 212	Engineering Project	2
Total			19

Third Year Course Structure

Third Year First Semester			
S.N	Course Code	Course Title	Credit Hours
1	MGTS 301	Engineering Economics	3
2	EEEG 309	Electromagnetic fields and Waves	3
3	EEEG 314	Microprocessors	3

4	EPEG 302	Advanced Electrical Machinery	3
5	EPEG 317	Measurement and Instrumentation	3
6	EEEG 306	Instrumentation and Microprocessor Laboratory Work	1
7	EPEG 307	Advanced Machinery Laboratory Work	1
8	PCEG 313	Engineering Project	1
Total			18
Third Year Second Semester			
S.N	Course Code	Course Title	Credit Hours
1	ETEG 301	Communication Systems	3
2	EEEG 320	Digital Circuits and System Design	3
3	COEG 301	Control Engineering	3
4	EPEG 315	Power Systems I	3
5	EPEG 318	Power Electronics	3
6	PCEG 308	Power and Control Laboratory Work	1
7	EEEG321	Digital Circuits and Systems Laboratory	1
8	PCEG 319	Engineering Project	2
Total			19

Fourth Year Course Structure

Fourth Year First Semester			
S.N	Course Code	Course Title	Credit Hours
1	MGTS 403	Engineering Management	3
2	COEG 401	Control Systems Design	3
3	EPEG 413	Power Systems II	3
4	EPEG 425	Power Plant Engineering	3
5	xxxx xxx	Elective I	3
6	PCEG 403	Power and Control Laboratory Work	1
7	PCEG 404	Engineering Project	2
Total			18
Fourth Year Second Semester			
S.N	Course Code	Course Title	Credit Hours
1	MGTS 402	Engineering Entrepreneurship	3
2	EPEG 427	Industrial Electrification & Control	3
3	EPEG 415	Switchgear and Protection	3
4	xxxx xxx	Elective II	3
5	PCEG 405	Power and Control Laboratory Work	1
6	PCEG 435	Engineering Project	3

7	PCEG 436	Industrial Internship	2
Total			18