

Electrical Engineering Technology Program (B. Tech) (216)

Semester 1- Fall	Course Title	Credits
ENGL 101	Composition & the Spoken Word [GER 10]	3
MATH 123	Pre-Calculus [GER 1]	4
SOET 116	Introduction to CAD and Design	2
ELEC 161	Electronic Fabrications	2
ELEC 101	Electric Circuits I	3
ELEC 109	Electric Circuits I Lab	1
		15
Semester 2-Spring		
ELEC 141	Industrial Controls	2
ELEC 102	Electric Circuits II	3
ELEC 129	Electric Circuit II Lab	1
MATH 161	Calculus I	4
ELEC 165	Digital Fundamentals & Systems	3
ELEC 166	Digital Fundamentals & Systems Lab	1
		14
Semester 3- Fall		
PHYS 121/131	College/University Physics I [GER 2]	3
PHYS 125/135	College Physics I Lab/University Physics I Lab	1
ELEC 213	Microprocessors	3
ELEC 231	Electronic Circuits	4
ENGS 102	Programming for Engineers	2
MATH 162	Calculus II	4
		17
Semester 4- Spring		
ELEC 243	Computer Automated Control Systems	2
PHYS 122/132	College/University Physics II	3
PHYS 126/136	College Physics II Lab/University Physics II Lab	1
ELEC 215	Electrical Energy Conversion	4
ELEC 225	Telecommunications	3
MATH 263	Calculus III	4
		17
Semester 5- Fall		
MATH 141	Statistics I	3
ELEC 343	Advanced Circuit Analysis	3
ELEC 332	Industrial Power Electronics	3
GER (3)	Diversity Elective Course	3
SOET 377	Engineering Ethics	1
MATH 364	Differential Equations	4
		17

Semester 6- Spring

ELEC 380	LAN/WAN Technology	3
ELEC 385	Electronic Communications I	3
ELEC 383	Power Transmission and Distribution	3
SOET 348	Engineering Safety	1
	Program Elective	3
	GER course [4,5,6,7,8,9]	3
		16

Semester 7- Fall

SOET 361	Project Management	3
	Program Elective	3
ELEC 386	Electronic Communications II	3
ELEC 416	Microelectronics Circuit Design	3
	GER course [4,5,6,7,8,9]	3
		15

Semester 8-Spring

	Program Elective	3
ELEC 477	Capstone Project	3
ECON 370	Engineering Economics	3
ELEC 436	Biomedical Electronics	3
	GER course [4,5, 6,7,8,9]	3
		15

Total Credits : 126

Graduation requirements: 126 semester credit hours with a G.P.A of 2.0 minimum

Fall 2024

Program Electives
ELEC 355 Embedded Electronics
ELEC 375 Fiber Optic Communications
ELEC 379 Digital Signal Processing
ELEC 405 Satellite Communications
AREA 340 Geothermal Energy
MECH 342 Thermodynamics
PHYS 301 Introduction to Photonics
SOET 373 Management Telecommunications
MECH 351 Design of Experiments
AREA 303 Wind Turbines
SOET 349 Industrial Safety and Health
SOET374 Industrial Management
MATH Minor Courses: 341, 361, 351, 371, 461
<i>Or Elective course approved by the program coordinator</i>