SCHEME OF STUDIES
ELECTRICAL ENGINEERING

Batch 2016-17

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
SPRING	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-114	Functional English	3	0	3
	ME-104	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
FALL	EE-106	Engineering Drawing	3	0	3
	EE-121	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 17-18	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-205	Islamic Models OR	2	0	2
	HS-209	Ethical Behaviour			
SPRING 2018	EE-351	Electromagnetic Fields	2	0	2
	EE-323	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-255	Logic Design & Switching Theory	3	1	4
	MT-331	Probability and Statistics	3	0	3

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2018	EE-345	Electrical Machines	3	1	4
	EE-364	Digital Signal Processing	2	1	3
	EE-366	Electrical Power Transmission and Utilization	3	1	4
	EL-343	Power Electronics	3	1	4
	MT-442	Numerical Methods	3	0	3
SPRING 2019	EE-362	Power System Analysis	3	1	4
	EE-364	Electrical Power Transmission	3	1	4
	EE-374	Feedback Control Systems	3	1	4
	TC-307	Communication Systems	3	1	4
	HS-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2019	EE-417	Electrical Power System Protection	3	1	4
	EE-411	Power Generation	3	1	4
	CS-430	Microprocessor Programming & Interfacing	3	1	4
	EE-432	Occupational Safety and Health	3	0	3
	EP-300	Engineering Economics & Management	3	0	3
	EE-415	Power Generation Systems	3	1	4
	ME-451	Electrical Engineering Project	2	0	2
SPRING 2020	MG-491	Entrepreneurship	2	0	2
	EE-413	Alternate Energy Systems	3	1	4
	CS-419	Computer Communication Networks	3	1	4
	EE-451	Electrical Engineering Project	2	0	2

* Changed vide Resolution No.AC-146.4

Batch 2017

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 17-18	*EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-114	Functional English	3	0	3
	ME-104	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	EE-106	Engineering Drawing	3	0	3
	*EE-121	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2018	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-205	Islamic Models OR	2	0	2
	HS-209	Ethical Behaviour			
	HS-207	Chinese Language-II			NC
SPRING 2019	EE-352	Electromagnetic Fields	2	0	2
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Logic Design & Switching Theory	3	1	4
	MT-331	Probability and Statistics	3	0	3

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2019	EE-345	Electrical Machines	3	1	4
	EE-365	Digital Signal Processing	2	1	3
	EE-367	Electrical Power Transmission and Utilization	3	1	4
	EE-343	Power Electronics	3	1	4
	MT-442	Numerical Methods	3	0	3
SPRING 2020	EE-361	Power System Analysis	3	1	4
	EE-365	Electrical Power Transmission	3	1	4
	EE-375	Feedback Control Systems	3	1	4
	TC-307	Communication Systems	3	1	4
	HS-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2020	EE-417	Electrical Power System Protection	3	1	4
	EE-411	Power Generation	3	1	4
	CS-430	Microprocessor Programming & Interfacing	3	1	4
	EE-432	Occupational Safety and Health	3	0	3
	EP-300	Engineering Economics & Management	3	0	3
	EE-415	Power Generation Systems	3	1	4
	ME-451	Electrical Engineering Project	2	0	2
SPRING 2021	MG-491	Entrepreneurship	2	0	2
	EE-413	Alternate Energy Systems	3	1	4
	CS-419	Computer Communication Networks	3	1	4
	EE-451	Electrical Engineering Project	2	0	2

Batch 2018

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2018	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-114	Functional English	3	0	3
	ME-104	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-121	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	*LS-105	Engineering surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2019	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-205	Islamic Models OR	2	0	2
	HS-209	Ethical Behaviour			
	HS-207	Chinese Language-II			NC
SPRING 2020	EE-352	Electromagnetic Fields	2	0	2
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Logic Design & Switching Theory	3	1	4
	MT-331	Probability and Statistics	3	0	3

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2020	EE-345	Electrical Machines	3	1	4
	EE-365	Digital Signal Processing	2	1	3
	EE-367	Electrical Power Transmission and Utilization	3	1	4
	EL-343	Power Electronics	3	1	4
	MT-442	Numerical Methods	3	0	3
SPRING 2021	EE-362	Power System Analysis	3	1	4
	EE-364	Electrical Power Transmission	3	1	4
	EE-374	Feedback Control Systems	3	1	4
	TC-307	Communication Systems	3	1	4
	HS-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2021	EE-417	Electrical Power System Protection	3	1	4
	EE-411	Power Generation	3	1	4
	CS-430	Microprocessor Programming & Interfacing	3	1	4
	EE-432	Occupational Safety and Health	3	0	3
	EP-300	Engineering Economics & Management	3	0	3
	EE-415	Power Generation Systems	3	1	4
	ME-451	Electrical Engineering Project	2	0	2
SPRING 2022	MG-491	Entrepreneurship	2	0	2
	EE-413	Alternate Energy Systems	3	1	4
	CS-419	Computer Communication Networks	3	1	4
	EE-451	Electrical Engineering Project	2	0	2

Batch 2019

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2019	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-114	Functional English	3	0	3
	ME-104	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-121	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2020	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-205	Islamic Models OR	2	0	2
	HS-209	Ethical Behaviour			
	HS-207	Chinese Language-II			NC
SPRING 2021	EE-352	Electromagnetic Fields	2	0	2
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Logic Design & Switching Theory	3	1	4
	MT-331	Probability and Statistics	3	0	3

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2021	EE-345	Electrical Machines	3	1	4
	EE-365	Digital Signal Processing	2	1	3
	EE-367	Electrical Power Transmission and Utilization	3	1	4
	EL-343	Power Electronics	3	1	4
	MT-442	Numerical Methods	3	0	3
SPRING 2022	EE-362	Power System Analysis	3	1	4
	EE-364	Electrical Power Transmission	3	1	4
	EE-374	Feedback Control Systems	3	1	4
	TC-307	Communication Systems	3	1	4
	HS-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2022	EE-417	Electrical Power System Protection	3	1	4
	EE-411	Power Generation	3	1	4
	CS-430	Microprocessor Programming & Interfacing	3	1	4
	EE-432	Occupational Safety and Health	3	0	3
	EP-300	Engineering Economics & Management	3	0	3
	EE-415	Power Generation Systems	3	1	4
	ME-451	Electrical Engineering Project	2	0	2
SPRING 2023	MG-491	Entrepreneurship	2	0	2
	EE-413	Alternate Energy Systems	3	1	4
	CS-419	Computer Communication Networks	3	1	4
	EE-451	Electrical Engineering Project	2	0	2

Batch 2020

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2020	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	*HS-114	Functional English	3	0	3
	*ME-116	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	*EE-113	Introduction to Computing	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-108	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering surveying	2	1	3
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I			NC
	HS-205	Islamic Models OR			
	HS-207	Chinese Language-II			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2021	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-209	Ethical Behaviour			
	HS-207	Chinese Language-II			NC
SPRING 2022	EE-352	Electromagnetic Fields	2	0	2
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Logic Design & Switching Theory	3	1	4
	MT-331	Probability and Statistics	3	0	3

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2022	*EE-346	Electrical Machines-I	2	1	3
	*EE-366	Digital Signal Processing	2	1	3
	EE-368	Electrical Power Transmission and Utilization	3	1	4
	*EE-372	Power Electronics	2	1	3
	MT-442	Numerical Methods	3	0	3
SPRING 2023	EE-362	Power System Analysis	3	1	4
	*EE-367	Electrical Machines-II	2	1	3
	*EE-384	Embedded Systems	2	1	3
	*TC-306	Communication Systems	2	1	3
	HS-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2023	EE-417	Electrical Power System Protection	3	1	4
	*EE-423	Occupational Safety and Health	2	1	3
	*EE-452	Electrical Power Transmission	2	1	3
	*EE-454	Electrical Power Systems	2	1	3
	*EE-457	Electrical Engineering Project	2	1	3
	*EE-459	Computer Communication Networks	2	1	3
	*MG-451	Entrepreneurship	2	0	2
	EE-411	Power Generation	3	1	4
	*EP-300	Engineering Economics & Management	2	1	3
	*EE-451	Electrical Engineering Project	2	1	3

Batch 2021

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2021	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-111	Functional English	3	0	3
	ME-116	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	CS-113	Introduction to Computing	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-108	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering Surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I OR			NC
	HS-201	Turkish Language-I			NC
	HS-204	German language-I			NC
	HS-206	French language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2022	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	HS-205	Islamic models OR	2	0	2
	HS-209	Ethical behaviour			
	HS-207	Chinese Language-II			NC
SPRING 2023	EE-352	Electromagnetic Fields	2	0	2
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Digital Logic Design	2	1	3
	MT-331	Probability and Statistics	3	0	3
	HS-201	Turkish Language-II			NC
	HS-204	Chinese Language-II			NC
	HS-206	Community Service			NC

* Changed vide Resolution No. AR-150.4(i)

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2023	SE-246	Electrical Machines-I	2	1	3
	SE-266	Digital Signal Processing	2	1	3
	SE-268	Electrical Power Transmission and Utilization	3	1	4
	SE-372	Power Electronics	2	1	3
	MT-442	Numerical Methods	3	0	3
SPRING 2024	SE-362	Power System Analysis	3	1	4
	SE-367	Electrical Machines-II	2	1	3
	SE-384	Embedded Systems	2	1	3
	TC-306	Communication Systems	2	1	3
	*EA-304	Business Communication & Ethics	3	0	3

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2024	SE-427	Electrical Power System Protection	2	1	3
	SE-423	Occupational Safety and Health	2	1	3
	SE-452	Electrical Power Transmission	2	1	3
	SE-454	Electrical Power Systems	2	1	3
	SE-457	Electrical Engineering Project	2	1	3
	SE-459	Computer Communication Networks	2	1	3
	*MG-451	Entrepreneurship	2	0	2
	SE-411	Power Generation	2	1	3
	SE-451	Electrical Engineering Project	2	1	3
SPRING 2025	*SA-103	Foreign Language-I			NC
	*EP-300	Engineering Economics & Management	2	1	3
	*EE-451	Electrical Engineering Project	2	1	3

* Under Section 26(iv) Office Order Award(16)/16/8911

Batch 2022

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2022	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-111	Functional English	3	0	3
	ME-116	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	CS-113	Introduction to Computing	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-108	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering Surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I OR			NC
	HS-201	Turkish Language-I			NC
	HS-204	German language-I			NC
	HS-206	French language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2023	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	*HS-205	Islamic models OR	2	0	2
	*HS-209	Ethical behaviour			
	*HS-207	Chinese Language-II			NC
SPRING 2024	*EE-352	Electromagnetic Fields	2	0	2
	*EA-223	Turkish Language-II			NC
	*EA-223	German language-II			NC
	*EA-223	French language-II			NC
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Digital Logic Design	2	1	3
	MT-331	Probability and Statistics	3	0	3
	SA-102	Urdu Language-I			NC
	SA-102	Japanese Language-I			NC
	SA-102	Russian Language-I			NC
	*EA-200	Community Service			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

** Under Section 26(iv) Office Order Award(16)/16/8911

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2024	SE-246	Electrical Machines-I	2	1	3
	SE-266	Digital Signal Processing	2	1	3
	SE-268	Electrical Power Transmission and Utilization	3	1	4
	SE-372	Power Electronics	2	1	3
	MT-442	Numerical Methods	3	0	3
SPRING 2025	SE-362	Power System Analysis	3	1	4
	SE-367	Electrical Machines-II	2	1	3
	SE-384	Embedded Systems	2	1	3
	TC-306	Communication Systems	2	1	3
	*EA-304	Business Communication & Ethics	3	0	3
	*SA-103	Foreign Language-I			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2025	SE-427	Electrical Power System Protection	2	1	3
	SE-423	Occupational Safety and Health	2	1	3
	SE-452	Electrical Power Transmission	2	1	3
	SE-454	Electrical Power Systems	2	1	3
	SE-457	Electrical Engineering Project	2	1	3
	SE-459	Computer Communication Networks	2	1	3
	*MG-451	Entrepreneurship	2	0	2
	SE-411	Power Generation	2	1	3
	*EP-300	Engineering Economics & Management	2	1	3
	*EE-451	Electrical Engineering Project	2	1	3
SPRING 2026	*SA-103	Foreign Language-I			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

Batch 2023

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2023	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-111	Functional English	3	0	3
	ME-116	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	CS-113	Introduction to Computing	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-108	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering Surveying	2	1	3
	EE-165	Computer and Programming	3	1	4
	HS-105	Pakistan Studies OR	2	0	2
	HS-107	Pakistan Studies (For Foreigners)			
	HS-204	Chinese Language-I OR			NC
	HS-201	Turkish Language-I			NC
	HS-204	German language-I			NC
	HS-206	French language-I			NC

SECOND YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2024	EL-040	Electronic Devices & Circuits	3	1	4
	MA-266	Linear structures and Algorithms	2	1	3
	MT-272	Linear Algebra & Geometry	3	0	3
	MT-226	Multi Variable Calculus	3	0	3
	HS-214	Academic Writing	3	0	3
	*HS-205	Islamic models OR	2	0	2
	*HS-209	Ethical behaviour			
	*HS-207	Chinese Language-II			NC
SPRING 2025	*EE-352	Electromagnetic Fields	2	0	2
	*EA-223	Turkish Language-II			NC
	*EA-223	German language-II			NC
	*EA-223	French language-II			NC
	EE-322	Instrumentation and Measurement	2	1	3
	EE-331	Signals and Systems	3	1	4
	CS-321	Digital Logic Design	2	1	3
	MT-331	Probability and Statistics	3	0	3
	SA-102	Urdu Language-I			NC
	SA-102	Japanese Language-I			NC
	SA-102	Russian Language-I			NC
	*EA-200	Community Service			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

** Under Section 26(iv) Office Order Award(16)/16/8911

THIRD YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2025	SE-246	Electrical Machines-I	2	1	3
	SE-266	Digital Signal Processing	2	1	3
	SE-268	Electrical Power Transmission and Utilization	3	1	4
	SE-372	Power Electronics	2	1	3
	MT-442	Numerical Methods	3	0	3
SPRING 2026	SE-362	Power System Analysis	3	1	4
	SE-367	Electrical Machines-II	2	1	3
	SE-384	Embedded Systems	2	1	3
	TC-306	Communication Systems	2	1	3
	*EA-304	Business Communication & Ethics	3	0	3
	*SA-103	Foreign Language-I			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

FINAL YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2026	SE-427	Electrical Power System Protection	2	1	3
	SE-423	Occupational Safety and Health	2	1	3
	SE-452	Electrical Power Transmission	2	1	3
	SE-454	Electrical Power Systems	2	1	3
	SE-457	Electrical Engineering Project	2	1	3
	SE-459	Computer Communication Networks	2	1	3
	*MG-451	Entrepreneurship	2	0	2
	SE-411	Power Generation	2	1	3
	*EP-300	Engineering Economics & Management	2	1	3
	*EE-451	Electrical Engineering Project	2	1	3
SPRING 2027	*SA-103	Foreign Language-I			NC

* Under Section 26(iv) Office Order Award(16)/16/8911

Batch 2024

FIRST YEAR ——— SEMESTER SYSTEM

	Course Code	Course Title	Crd Hrs Th	Pr	T
		Electrical Engineering			
FALL 2024	EE-120	Basic Electrical Engineering	3	1	4
	PH-122	Applied Physics	3	1	4
	HS-111	Functional English	3	0	3
	ME-116	Basic Mechanical Engineering	3	1	4
	MT-101	Calculus-I	3	1	4
	CS-113	Introduction to Computing	3	1	4
	EE-106	Engineering Drawing	3	0	3
	EE-108	Circuit Analysis	3	1	4
	MT-127	Differential Equation	3	0	3
	LS-105	Engineering Surveying	2	1	3
	EE-165	Computer and