



NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY
U.S.-Pakistan Center for Advanced Studies in Energy
Timetable: MS – TEE Spring, 2023

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall	Fuels & Combustion (TEE-816) – Core Dr. Muhammad Bilal Sajid Seminar Hall		Fuels & Combustion (TEE-816) – Core Dr. Muhammad Bilal Sajid Lecture Hall	
10:30 - 12:00 pm	Design & Modeling of Thermal Energy Systems (TEE-802) – Core Dr. Mariam Mahmood CR-3/Computer Lab	Turbomachinery (TEE-813) Dr. Qazi Shahzad Ali CR-3	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Design & Modeling of Thermal Energy Systems (TEE-802) – Core Dr. Mariam Mahmood CR-3/Computer Lab	
12:00 - 01:30 PM	Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Advanced Energy Materials: Synthesis & Characterization (ESE-904) Dr. Nadia Shahzad – MS/PhD CR-4	Turbomachinery (TEE-813) Dr. Qazi Shahzad Ali CR-3	
Lunch and Prayer Break					
02:00 - 03:30 PM	Advanced Energy Materials: Synthesis & Characterization (ESE-904) CR-4 Dr. Nadia Shahzad – MS/PhD	<u>Research Methodology</u> (RM-898) - Core <u>Dr. Sana Yaqub</u> <u>*02:00 – 04:00 PM</u> <u>Seminar Hall</u> / Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Sustainability in Thermal Energy Systems (TEE-902) - Core Dr. Qazi Shahzad Ali (MS/PhD) CR-4	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall / Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2			Sustainability in Thermal Energy Systems (TEE-902) - Core Dr. Qazi Shahzad Ali (MS/PhD) CR-3	



NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY
U.S.-Pakistan Center for Advanced Studies in Energy
Timetable: MS – ESE Spring, 2023

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall	Biofuel Engineering (ESE-801) Dr. Rabia Liaqat – CR-3 / Fuels & Combustion (TEE-816) Dr. Muhammad Bilal Sajid Seminar Hall	Industrial Catalysis for Energy Systems (ESE-826) Dr. Naseem Iqbal CR-2	Energy & Environment (ESE-820) – Core Dr. Muhammad Hassan Seminar Hall / Fuels & Combustion (TEE-816) Dr. Muhammad Bilal Sajid Lecture Hall	Modeling of Energy Systems – Core (ESE-809) Dr. Adeel Waqas CR-4/Computer Lab
10:30 - 12:00 pm	Energy & Environment (ESE-820) – Core Dr. Muhammad Hassan Lecture Hall	Modeling of Energy Systems – Core (ESE-809) Dr. Adeel Waqas CR-2/Computer Lab	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Biofuel Engineering (ESE-801) Dr. Rabia Liaqat – Lecture Hall	
12:00 - 01:30 PM	Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Wind Energy (ESE-817) Dr. Sehar Shakir CR-4 / Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Advanced Energy Materials: Synthesis & Characterization (ESE-904) Dr. Nadia Shahzad – MS/PhD CR-4	Wind Energy (ESE-817) Dr. Sehar Shakir CR-4	
Lunch and Prayer Break					
02:00 - 03:30 PM	Advanced Energy Materials: Synthesis & Characterization (ESE-904) CR-4 Dr. Nadia Shahzad – MS/PhD	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	*02:00 – 04:00 <u>Research Methodology (RM-898) - Core</u> <u>Dr. Kafait Ullah</u> <u>Lecture Hall</u>	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall / Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2		Industrial Catalysis for Energy Systems (ESE-826) Dr. Naseem Iqbal CR-4	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2



NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY
U.S.-Pakistan Center for Advanced Studies in Energy
Timetable: MS – EE (Power) Spring, 2023

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Advanced Power Electronics (EPE-814) CR-2 Dr. Abraiz Khattak / Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall	Clean Energy Generation, Integration and Storage (EPE-802) - Core Dr. Muhammad Yousif Lecture Hall	Smart Grid Architecture (EPE-909) Dr. Muhammad Yousif CR-4	Clean Energy Generation, Integration and Storage - Core (EPE-802) Dr. Muhammad Yousif CR-2 / Energy & Environment (ESE-820) Dr. Muhammad Hassan Seminar Hall	Smart Grid Architecture (EPE-909) Dr. Muhammad Yousif CR-2
10:30 - 12:00 pm	Electric Power Markets (EPE-816) Dr. Kashif Imran CR-2 / Energy & Environment (ESE-820) Dr. Muhammad Hassan Lecture Hall	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah Lecture Hall	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3 / Advanced Power Electronics (EPE-814) CR-2 Dr. Abraiz Khattak	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah CR-2	Computer Modelling of Electrical Power Systems (EPE-813) Dr. Muhammad Numan Computer Lab/CR-4
12:00 - 01:30 PM	Application of Optimization Methods in Electrical Power Systems (EPE-903) CR-2 Dr. Muhammad Numan – MS/PhD	Development and Evaluation of Energy Projects (ESE-838) Dr. Syed Ali Abbas Kazmi Lecture Hall / Wind Energy (ESE-817) Dr. Sehar Shakir CR-4	Application of Optimization Methods in Electrical Power Systems (EPE-903) CR-2 Dr. Muhammad Numan – MS/PhD	Development and Evaluation of Energy Projects (ESE-838) Dr. Syed Ali Abbas Kazmi Lecture Hall / Wind Energy (ESE-817) Dr. Sehar Shakir CR-4	
Lunch and Prayer Break					
02:00 - 03:30 PM	Computer Modelling of Electrical Power Systems (EPE-813) Dr. Muhammad Numan Computer Lab/CR-2	High Voltage Engineering (EPE-817) Dr. Farasat Abbas CR-2 / Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	<u>Research Methodology (RM-898) - Core</u> <u>Dr. Kashif Imran</u> <u>*01:30-03:30 PM</u> <u>Seminar Hall</u>	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall / Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2	High Voltage Engineering (EPE-817) Dr. Farasat Abbas CR-4	Electric Power Markets (EPE-816) Dr. Kashif Imran CR-2	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2