



NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY
U.S.-Pakistan Center for Advanced Studies in Energy
Time Table: MS – TEE Spring, 2022

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall		Design & Modeling of Thermal Energy Systems (TEE-802) – Core Dr. Mariam Mahmood Lecture Hall/Computer Lab	Fuels & Combustion (TEE-816) – Core Dr. Asif Khoja Lecture Hall	Advanced Thermal Energy Storage Systems (TEE-821) Dr. Naveed Ahmed CR-2
10:30 - 12:00 pm	Design & Modeling of Thermal Energy Systems (TEE-802) – Core Dr. Mariam Mahmood Seminar Hall/Computer Lab		Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Conventional and Renewable Energy Power Plants (TEE-803) Dr. Naveed Ahmed CR-2	Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2
12:00 - 01:30 PM	Conventional and Renewable Energy Power Plants (TEE-803) Dr. Naveed Ahmed CR-3	Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Advanced Thermal Energy Storage Systems (TEE-821) Dr. Naveed Ahmed CR-2	Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Advanced Energy Materials: Synthesis & Characterization (ESE-904) Dr. Nadia Shahzad – PhD CR-2
Lunch and Prayer Break					
02:00 - 03:30 PM	Advanced Energy Materials: Synthesis & Characterization (ESE-904) CR-4 Dr. Nadia Shahzad – PhD / Fuels & Combustion (TEE-816) – Core Dr. Asif Khoja Seminar Hall	<u>Research Methodology (RM-898) - Core</u> <u>Dr. Asif Khoja</u> <u>*02:00 – 04:00 PM</u> <u>Seminar Hall</u>	Sustainability in Thermal Energy Systems (TEE-902) - Core Dr. Majid Ali (PhD) CR-4	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	Sustainability in Thermal Energy Systems (TEE-902) - Core Dr. Majid Ali (PhD) CR-4
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall		Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall		



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Time Table: MS – ESE Spring, 2022

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	Industrial Catalysis for Energy Systems (ESE-826) Dr. Naseem Iqbal CR-2	Next generation Photovoltaic Devices (ESE-830) Dr. Nadia Shahzad CR-2 / Fuels & Combustion (TEE-816) Dr. Asif Khoja Lecture Hall	Modeling of Energy Systems – Core (ESE-809) Dr. Abeera Ayaz Ansari CR-4/Computer Lab
10:30 - 12:00 pm	Environmental Impact Assessment (ESE-819) Dr. Abeera Ayaz CR-2	Modeling of Energy Systems – Core (ESE-809) Dr. Abeera Ayaz Ansari CR-2/Computer Lab	Next generation Photovoltaic Devices (ESE-830) Dr. Nadia Shahzad CR-2 / Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Biofuel Engineering (ESE-801) Dr. Rabia Liaqat – Lecture Hall / Conventional and Renewable Energy Power Plants (TEE-803) Dr. Naveed Ahmed CR-2	Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2
12:00 - 01:30 PM	Energy & Environment (ESE-820) – Core Dr. Muhammad Hassan Lecture Hall / Conventional and Renewable Energy Power Plants (TEE-803) Dr. Naveed Ahmed CR-3	Wind Energy (ESE-817) Dr. Sehar Shakir CR-4 / Nuclear Energy Engineering (ESE-824) Dr. Majid Ali CR-3	Energy & Environment (ESE-820) – Core Dr. Muhammad Hassan Seminar Hall	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) CR-2 Dr. Nadia Shahzad – PhD
Lunch and Prayer Break					
02:00 - 03:30 PM	Advanced Energy Materials: Synthesis & Characterization (ESE-904) CR-4 Dr. Nadia Shahzad – PhD / Fuels & Combustion (TEE-816) Dr. Asif Khoja Seminar Hall	<u>*01:30 – 03:30</u> <u>Research Methodology (RM-898) - Core</u> <u>Dr. Kafait Ullah</u> <u>Lecture Hall</u>	Carbon capture and utilization (ESE-911) – PhD CR-2 Dr. Naseem Iqbal	Environmental Impact Assessment (ESE-819) Dr. Abeera Ayaz CR-3 / Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	Industrial Catalysis for Energy Systems (ESE-826) Dr. Naseem Iqbal CR-2
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Carbon capture and utilization (ESE-911) – PhD CR-4 Dr. Naseem Iqbal	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
Time Table: MS – EE (Power) Spring, 2022 Section – A

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 - 10:30 AM	Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall	Smart Grid Architecture (ESE-909) Dr. Muhammad Yousif CR-4	Clean Energy Generation, Integration and Storage (EEE-801) - Core Dr. Abasin CR-4	Smart Grid Architecture (ESE-909) Dr. Muhammad Yousif CR-3	Clean Energy Generation, Integration and Storage - Core (EEE-801) Dr. Abasin CR-3
10:30 - 12:00 pm	Electric Power Markets (EEE-816) Dr. Kashif Imran CR-4	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah CR-4	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah CR-3	High Voltage Engineering (EEE-817) Dr. Abraiz Khattak CR-3 / Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2
12:00 - 01:30 PM	Energy & Environment (ESE-820) Dr. Muhammad Hassan Lecture Hall	Wind Energy (ESE-817) Dr. Sehar Shakir CR-4	Energy & Environment (ESE-820) Dr. Muhammad Hassan Seminar 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 (EEE-813) Dr. Muhammad Numan Computer Lab/CR-2	High Voltage Engineering (EEE-817) Dr. Abraiz Khattak CR-2	<u>Research Methodology (RM-898) - Core</u> Dr. Yousif <u>*01:30-03:30 PM</u> <u>Seminar Hall</u>	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	Electric Power Markets (EEE-816) Dr. Kashif Imran CR-3
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Computer Modelling of Electrical Power Systems (EEE-813) Dr. Muhammad Numan Computer Lab/CR-2	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
Time Table: MS – EE (Power) Spring, 2022 Section – B

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Fuel Cell (ESE-814) Dr. Mustafa Anwer Lecture Hall	Clean Energy Generation, Integration and Storage (EEE-801) - Core Dr. Abasin CR-2	Smart Grid Architecture (ESE-909) Dr. Syed Ali Abbas Kazmi Seminar Hall	Clean Energy Generation, Integration and Storage (EEE-801) - Core Dr. Abasin CR-4	Smart Grid Architecture (ESE-909) Dr. Syed Ali Abbas Kazmi Lecture Hall
10:30 - 12:00 pm	Electric Power Markets (EEE-816) Dr. Kashif Imran CR-4	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah CR-4	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid CR-3	Alternating Current Electrical Machines and Drives (EE-861) Dr. Hassan Abdullah CR-3	High Voltage Engineering (EEE-817) Dr. Farasat Abbas CR-4 / Fuel Cell (ESE-814) Dr. Mustafa Anwer CR-2
12:00 - 01:30 PM	Energy & Environment (ESE-820) Dr. Muhammad Hassan Lecture Hall	Wind Energy (ESE-817) Dr. Sehar Shakir CR-4	Energy & Environment (ESE-820) Dr. Muhammad Hassan Seminar 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 (EEE-813) Dr. Muhammad Numan Computer Lab/CR-2	High Voltage Engineering (EEE-817) Dr. Farasat Abbas CR-3	<u>Research Methodology (RM-898) - Core</u> <u>*1:30 – 3:30 PM</u> <u>Dr. Abraiz Khattak</u> <u>Lecture Hall</u>	Industrial Energy Management (ESE-833) Dr. Muhammad Bilal Sajid Lecture Hall	Electric Power Markets (EEE-816) Dr. Kashif Imran CR-3
03:30 - 05:00 PM	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2	Energy Policy Analysis & Planning (ESE-831) Dr. Kafait Ullah – Lecture Hall	Computer Modelling of Electrical Power Systems (EEE-813) Dr. Muhammad Numan Computer Lab/CR-2	Li-ion & Next Generation Batteries (ESE-836) Dr. Ghulam Ali CR-2