



**NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**  
**U.S.-Pakistan Center for Advanced Studies in Energy**  
**Timetable: MS – ESE Fall, 2024**

<b>Time/Day</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
09:00 - 10:30 AM	Functional Nanomaterials for Renewable Energy (ESE-829) <b>CR-2</b> Dr. Ghulam Ali	Advanced Energy Materials: Synthesis & Characterization (ESE-904) Dr. Ghulam Ali <b>CR-2</b>	Advanced Energy Materials: Synthesis & Characterization (ESE-904) Dr. Ghulam Ali <b>CR-2</b>		Applied Solar Energy – <b>Core</b> (ESE-804) Dr. Nadia Shahzad <b>Lecture Hall</b>
10:30 - 12:00 PM	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>	Applied Solar Energy – <b>Core</b> (ESE-804) Dr. Nadia Shahzad <b>Lecture Hall</b>	Energy Resources & Technologies – <b>Core</b> (ESE-821) Dr. Rabia Liaquat <b>Lecture Hall</b>	Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-2</b>	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Hassan Abdullah Khalid – <b>Lecture Hall</b>
12:00 - 01:30 PM	Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>	Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-3</b>	Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>	Functional Nanomaterials for Renewable Energy (ESE-829) Dr. Ghulam Ali) <b>CR-3</b>	
<b>Lunch and Prayer Break (1:30 - 2:00 pm)</b>					
02:00 - 03:30 PM	Energy Resources & Technologies – <b>Core</b> (ESE-821) <b>Lecture Hall</b> Dr. Rabia Liaquat	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Hassan Abdullah Khalid – <b>Lecture Hall</b>	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>		
03:30 - 05:00 PM	Conventional and Renewable Energy Power Plants (TEE-803) Dr. Asif Hussain Khoja <b>Lecture Hall</b>		Conventional and Renewable Energy Power Plants (TEE-803) Dr. Asif Hussain Khoja <b>Lecture Hall</b>		

**\*Chinese language course timings: 1-2 pm Tuesday (CR-2) and 1-2 pm Thursday (CR-2)**



**NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**  
**U.S.-Pakistan Center for Advanced Studies in Energy**  
**Timetable: MS – TEE Fall, 2024**

<b>Time/Day</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
09:00 - 10:30 AM	Solar Thermal Power Systems (TEE-823) Dr. Majid Ali <b>CR-3</b>			Solar Thermal Power Systems (TEE-823) Dr. Majid Ali <b>CR-3</b>	Advanced Heat and Mass Transfer - <b>Core</b> (TEE-815) Dr. Majid Ali Advanced <b>CR-2</b>
10:30 - 12:00 PM	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>	Advanced Heat and Mass Transfer - <b>Core</b> (TEE-815) Dr. Majid Ali <b>CR-2</b>	Thermodynamics ( <b>Core</b> ) (TEE-801) Dr. Sana Yaqub <b>CR-3</b>	Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-2</b>	
12:00 - 01:30 PM	Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>	Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-3</b>	Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>		
<b>Lunch and Prayer Break (1:30 - 2:00 pm)</b>					
02:00 - 03:30 PM	Advanced Thermodynamics ( <b>Core</b> ) (TEE-801) Dr. Sana Yaqub <b>CR-3</b>	Advanced Thermal Energy Storage Systems (TEE-821) Dr. Naveed Ahmed <b>CR-3</b>	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>	Advanced Thermal Energy Storage Systems (TEE-821) Dr. Naveed Ahmed <b>CR-3</b>	
03:30 - 05:00 PM	Conventional and Renewable Energy Power Plants (TEE-803) Dr. Asif Hussain Khoja <b>Lecture Hall</b>	Computational Fluid Dynamics for Thermal Energy Systems (TEE-817) Dr. Qazi Shahzad Ali <b>CR-3</b>	Conventional and Renewable Energy Power Plants (TEE-803) Dr. Asif Hussain Khoja <b>Lecture Hall</b>	Computational Fluid Dynamics for Thermal Energy Systems (TEE-817) Dr. Qazi Shahzad Ali <b>CR-3</b>	

**\*Chinese language course timings: 1-2 pm Tuesday (CR-2) and 1-2 pm Thursday (CR-2)**



**NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**  
**U.S.-Pakistan Center for Advanced Studies in Energy**  
**Timetable: MS – EE (Power) Fall, 2024**

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 -10:30 AM	Power Systems Analysis - <b>Core</b> (EE-863) Dr. Syed Ali Abbas Kazmi <b>CR-4</b>	Smart Power Systems (EPE-910) Dr. Muhammad Yousif <b>CR-4</b>	Advanced Power System Protection (EEE-812) Dr. Kashif Imran <b>CR-4</b>	Power Systems Analysis - <b>Core</b> (EE-863) Dr. Syed Ali Abbas Kazmi <b>CR-4</b>	Smart Grid Architecture (ESE-909) Dr. Muhammad Yousif <b>CR-4</b>
10:30 - 12:00 PM	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>	High Voltage Engineering (EEE-817) Dr. Muhammad Farasat Abbas <b>CR-4</b>	Advanced Power System Protection (EEE-812) Dr. Kashif Imran <b>CR-4</b>	Smart Power Systems (EPE-910) Dr. Muhammad Yousif <b>CR-4</b> / Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-2</b>	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Hassan Abdullah Khalid – <b>Core</b> <b>Lecture Hall</b>
12:00 - 01:30 PM	Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>	Materials Science and Engineering (ESE-835) Dr. Mustafa Answer <b>CR-3</b>	Smart Grid Architecture (ESE-909) Dr. Muhammad Yousif <b>CR-4</b> / Electrochemical Energy Storage and Conversion (ESE-837) Dr. Naseem Iqbal <b>CR-2</b>		
Lunch and Prayer Break (1:30 - 2:00 pm)					
02:00 - 03:30 PM	Advanced Power Electronics (EEE-814) Dr. Muhammad Farasat Abbas <b>CR-4</b>	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Hassan Abdullah Khalid – <b>Core</b> <b>Lecture Hall</b>	Energy and Climate Change (ESE-832) Dr. Muhammad Hassan <b>Lecture Hall</b>		
03:30 - 05:00 PM		Advanced Power Electronics (EEE-814) Dr. Muhammad Farasat Abbas <b>CR-4</b>	High Voltage Engineering (EEE-817) Dr. Muhammad Farasat Abbas <b>CR-4</b>		

**\*Chinese language course timings: 1-2 pm Tuesday (CR-2) and 1-2 pm Thursday (CR-2)**



**NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**  
**U.S.-Pakistan Center for Advanced Studies in Energy**  
**Timetable: MS – RE Fall, 2024 (Evening)**

<b>Time/Day</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
05:00 - 05:50 PM	Wind Energy (ESE-817) Dr. Hassan Abdullah Khalid <b>CR-4</b>	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Kashif Imran <b>CR-4</b>	Energy Economics and Policy - <b>Core</b> (ESE-813) Dr. Waqar Khalid <b>CR-4</b>	Energy and Water Nexus (RE-824) Dr. Abeera Ayaz Ansari <b>CR-4</b>	<b>Makeup Slot</b>
06:00 - 06:50 PM	Renewable Energy Resources - <b>Core</b> (RE-800) Dr. Rabia Liaquat <b>CR-4</b>	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Kashif Imran <b>CR-4</b>	Energy Economics and Policy - <b>Core</b> (ESE-813) Dr. Waqar Khalid <b>CR-4</b>	Energy and Water Nexus (RE-824) Dr. Abeera Ayaz Ansari <b>CR-4</b>	<b>Makeup Slot</b>
07:00 - 07:50 PM	Renewable Energy Resources - <b>Core</b> (RE-800) Dr. Rabia Liaquat <b>CR-4</b>	Renewable Energy Resources - <b>Core</b> (RE-800) Dr. Rabia Liaquat <b>CR-4</b>	Wind Energy (ESE-817) Dr. Hassan Abdullah Khalid <b>CR-4</b>	Energy and Water Nexus (RE-824) Dr. Abeera Ayaz Ansari <b>CR-4</b>	<b>Makeup Slot</b>
08:00 - 08:50 PM	Clean Energy Generation, Integration and Storage (EEE-801) Dr. Kashif Imran <b>CR-4</b>	Energy Economics and Policy - <b>Core</b> (ESE-813) Dr. Waqar Khalid <b>CR-4</b>	Wind Energy (ESE-817) Dr. Hassan Abdullah Khalid <b>CR-4</b>	<b>Makeup Slot</b>	<b>Makeup Slot</b>

**\*Chinese language course timings: 1-2 pm Tuesday (CR-2) and 1-2 pm Thursday (CR-2)**