

USPCAS-E List of Offered Courses (Fall 2025)

MS Renewable Energy (Evening)

No	Course Code	Course Title	CH
1	RE-800	Renewable Energy Resources	3
2	ESE-813	Energy Economics & Policy	3
3	RE-824	Energy & Water Nexus	3
4	ESE-804	Applied Solar Energy	3
5	RE-822	Biomass & Bioenergy	3
6	EPE-816	Electric Power Markets	3
7	General Education	Fehm-e-Quran	1

MS Energy Systems Engineering (Morning)

No	Course Code	Course Title	CH
1	ESE-821	Energy Resources & Technologies	3
2	ESE-804	Applied Solar Energy	3
3	ESE-837	Electrochemical Energy Storage and Conversion	3
4	ESE-832	Energy and Climate Change	3
5	ESE-813	Energy Economics & Policy	3
6	ESE-835	Material Science & Engineering	3

MS Thermal Energy Engineering (Morning)

No	Course Code	Course Title	CH
1	TEE – 823	Solar Thermal Power Systems	3
2	TEE – 832	Advanced Heat and Mass Transfer	3
3	TEE- 803	Conventional and Renewable Power Plants	3
4	TEE-801	Advance Thermodynamics	3
5	ESE-800	Clean Coal Technologies	3
6	TEE-821	Advanced Thermal Energy Storage Systems	3
7	TEE-818	Advanced Heating, Ventilation and Air-Conditioning Systems	3

MS Electrical Engineering Power (Morning)

No	Course Code	Course Title	CH
1	EEE-801	Clean Energy Generation, Integration and Storage	3
2	EEE-812	Advanced Power System Protection	3
3	EE-863	Power System Analysis	3
4	EPE-910	Smart Power Systems	3
5	ESE-817	Wind Energy	3
6	General Education	Fehm-e-Quran	2

*Note: ESE-814 (Fuel Cells) and TEE-814 (Environmental Issues of Fossil Fuel Power Plants) are no longer being offered for the Fall 2025 semester