Mutah University
College of Graduate Studies

Master's Degree in Smart Grids in Electrical Power Systems

Thesis Track

Thesis Track: The number of credit hours for graduation is 33 hours, distributed as follows:

	Course Code	Course Title	Credit Hours	Prerequisite
A: - Specialization Requirements Compulsory Credit Hours (15)	0401720	Smart Grids; Components & Functionalities	3	
	0401730	Electrical Network Automation and Protection	3	
	0401731	Sensors, Measurement, and Smart Metering	3	
	0401734	Electrical Renewable Energy Systems	3	
	0401736	Research Methods	3	

	Course Code	Course Title	Credit Hours	Prerequisite
B: - Elective Major Requirements Credit Hours (9)	0401737	Power System Stability and Dynamics	3	
	0401738	Advanced Power Electronics and Drives	3	
	0401739	Power Systems Modeling and Simulation	3	
	0401740	Power System Quality	3	
	0401741	Fault Tolerant Systems	3	
	0401742	Modern Control Theory	3	
	0401743	Wide Area Monitoring in Smart Grids	3	
	0401744	Electrical Systems Management and Energy Economy	3	
	0401745	Energy Storage Technology	3	
	0401746	Computational Methods for Power System Analysis	3	
	0401747	Power Systems Operation and Control	3	

- Thesis Preparation (Thesis Code): Equivalent to (9) credit hours, provided the student successfully passes the defence examination.
- The Dean, based on the recommendation of the Department Committee and the College Committee, may assign the student remedial courses not exceeding (9) credit hours. This must be documented in the admission letter, and the student is required to complete them during the first year.

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