

## Requirements to Apply for the M.Sc. program in Electric Power Engineering

1) Applicants who apply for acceptance in this program must comply with the following conditions:

- A. Must have a bachelor's degree in electrical power engineering, electrical engineering or equivalent
- B. To pass the foreign language requirement to join the program in accordance with the university's instructions.
- C. Any other conditions approved by the relevant committees and councils.

2) The Master Degree in Electrical Power Engineering / Thesis Track is granted after completing the following requirements:

- a) To fulfil the requirements stipulated in **the Master's Program No. (3) 2011**
- b) Studying the additional and supplementary courses decided by the Graduate Studies Committee in the department.
- c) Any other conditions deemed appropriate by the department and decided by the committees and councils concerned.
- d) Studying at least (24) credit hours of level (600) and success in them with GPA not less than 75%.

A. Mandatory courses of (15) credit hours given in the following table:

Course Code & No.	Course Title	C.H.	Semester the course provided
EPE 601	Advanced Engineering Mathematics	3	First
EPE 609	Power Systems Operation and Control	3	First
EPE 629	Renewable Energy systems and energy efficiency	3	Second
EPE 632	Power Electronics	3	Second
EPE 647	Advanced Power Systems Protection	3	Second

B. elective courses of (9) credit hours. A student can chose from the elective courses listed in the following table:

Course Code & No.	Course Title	Credit Hours
EPE 610	Power System Stability	3
EPE 617	Advanced Transmission Systems	3
EPE 618	Distribution Systems	3
EPE 619	Modern Control Theory	3
EPE 639	Computer Methods in Power Systems	3
EPE 642	Power Systems Quality	3
EPE 644	Smart Power Grids	3
EPE 669	Restructuring of Electric Power Industry	3
EPE 671	Insulation Coordination	3
EPE 675	Electric Motor Drives	3
EPE 683	Advanced Analysis of Electric Machines	3
EPE 687	Advanced High Voltage Engineering	3
EPE 691	Special Topicsin Electric Power Engineering	3

- c. Thesis of (9) credit hours. Each student is required to prepare and successfully defend his/her master thesis on a research topic approved by the department. For registration purpose, thesis course appears as follow:

Course code & No.	Course Title	C. H.
EPE 699 A	The Master Thesis	0
EPE 699 B	The Master Thesis	3
EPE 699 C	The Master Thesis	6
EPE 699 D	The Master Thesis	9