

## MINIMUM CORE SUBJECT AREAS: ELECTRICAL ENGINEERING

AREA	SUBJECTS / DESCRIPTION	RECOMMENDED CONTACT HOURS
<b>A recommendation of 220 hours total from Group 1 and 110 hours total from Group 2.</b>		
<b>Group 1: 220 hours total from the following 2 areas, each area should carry no less than 70 hours:</b>		
<b>1. Power system operations and design</b>	- selected topics on electrical energy systems, power transmission & distribution, power system analysis & dynamic, load flow analysis, power system protection & switchgear, HV engineering, sustainable electricity, open electricity market operations etc.	70
<b>2. Electrical machines and electrical technology development</b>	- selected topics on electrical machines & drives, electromagnetics, electromechanical energy conversion, power electronic & drives, energy conversion, electric tractions & drives, electric vehicle technology, electrical transportation systems	70
<b>Group 2: 110 hours total from any combination of the following 2 areas (no minimum hour set for each area):</b>		
<b>1. Building services and systems</b>	- selected topics in electrical services / installations in buildings, lighting system, design of mechanical system in buildings, intelligent building, electrical engineering materials, electrical energy saving systems	
<b>2. Electric circuits analysis</b>	- selected topics on electric circuit theory / analysis, electronics, control, automation & system engineering, analogue & digital circuits, information technology, systems & controls, telecommunication, optical fibre system, signal & linear systems	
<b>Other Requirements</b> - An electrical engineering related project comprising not less than 200 project work hours		