

**GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA**  
**ELECTRICAL ENGINEERING DEPARTMENT**  
**SYLLABUS SCHEME FOR M.TECH. (POWER ENGG.) FULL-TIME**  
**2014 ONWARDS**

Sr. No.	Description of Subject	No. of Subjects	Credits per Subject	Total Credits
1	Core	6	4	24
2	Program Elective (Department Elective)	4	3	12
3	Program Elective (Open Elective)	2	3	6
4	Laboratory	2	2	4
5	Pre Thesis Seminar	1	4	4
6	Pre Thesis Project	1	4	4
7	Thesis	1	14	14
<b>G. Total</b>				<b>68</b>

Sr. No.	Subject Code	Subject Name	Description of Subject	Credits
<b>SEMESTER – I</b>				
1	MTPEE – 501	Advanced Power System Analysis	Core	4
2	MTPEE – 502	Power System Operation and Control	Core	4
3	MTPEE – 503	Advanced Electrical Machines	Core	4
4	MTPEE – 507	Power System Software Lab	Core	2
5	MTPEE – XXX	Department Elective - I	Program Elective	3
6	MTPEE – XXX	Department Elective - II	Program Elective	3
Total Credit				20
<b>SEMESTER – II</b>				
1	MTPEE – 504	HVDC Transmission	Core	4
2	MTPEE – 505	Power System Protection	Core	4
3	MTPEE – 506	EHVAC Transmission	Core	4
4	MTPEE – 508	Industrial Automation Lab	Core	2
5	MTPEE – XXX	Department Elective - III	Program Elective	3
6	MTXX – XXX	Open Elective - I	Program Elective.	3
Total Credit				20
<b>SEMESTER – III</b>				
1	MTPEE – XXX	Department Elective - IV	Program Elective	3
2	MTXX – XXX	Open Elective - II	Program Elective	3
3	MTPEE – 509	Pre Thesis Seminar	Core	4
4	MTPEE – 510	Pre Thesis Project	Core	4
Total Credit				14
<b>SEMESTER – IV</b>				
1	MTPEE – 511	Thesis	Core	14