1	EEE 506	Switch Mode Power Supply And Resonant Converters	Switched Mode DC-DC Converters (Isolation), Control Techniques and EMI in SMPS, Matrix Converter, Resonant Converters, Resonant Converter Topologies and its Control
2	EEE 516	Advanced Power Electronics Converters	DC-DC non isolated Converters, Power Factor Corrected ac to dc converters, Improved power quality ac to dc converters, PWM Inverters, Multilevel Converters
3	EEE-501	Analysis of Power Electronics Circuits	Review of power semiconductor devices and line commutated rectifiers, Choppers, Voltage Source Inverters, Current source inverters, AC Voltage Controllers and Cycloconverters
4	EEE502	Power Electronics Applications in Power Systems	Facts Devices, Power Quality improvement using custom power devices, HVDC Transmission, Static Excitation Systems
5	EEE503	Digital Control	Design of State space systems, State space methods, Quantization effects, Microprocessor and DSP control
6	EEE504	Solid State AC and DC Drives	Separately excited dc motor drive, Stator voltage and frequency control of Induction Motors, Synchronous motor drives, Dynamics and Braking
7	EEE505	Generalized Machine Theory	Energy in Magnetic systems, Linear Transformation, Generalized Machine Equations, Mathematical modeling of synchronous machine, Mathematical modeling of Induction Motor
8	EEE507	Microcontroller Applications in Power Electronics	Introduction to Micro-controllers, Programming Techniques, Designing with peripheral resources and external HW, Introduction to TMSLF2407 DSP controller, Case studies
9	EEE508	Special Machines and Control	Introduction to Brushless DC Motor Drives (BLDC), Square wave permanent magnet brushless motor drives, Sine wave permanent magnet brushless motor drives, Switched Motor Reluctance Drives, Stepper Motors, Linear Induction motors