

The Semester-wise pattern for students admitted to M.E. programme in Electrical Engineering with specialization in Power Electronics and Drives is given below:

Year	I Semester		II Semester	
	Course No. and Title	Units	Course No. and Title	Units
I	EEE G542 Power Electronics Converter	5	BITS G540 Research Practice	4
	EEE G541 Distribution Apparatus and Configuration	5	EEE G545 Control and Instrumentation Systems	5
	EEE G543 Power Devices Microelectronics and Selection	5	EEE G552 Solid State Drives	5
	Elective	*	Elective	*
II	EEE G546 System Simulation	5	BITS G629T Dissertation or BITS G639 Practice School	16 or 20
	Elective	*		
	Elective	*		
	Elective	*		

Note:

1. This is suggested semester wise pattern by the appropriate Senate appointed committee, subject to change if situation warrants.
2. Upon comparing the student's input degree curriculum with BITS degree curriculum, if a student is found to be inadequately prepared, one or more deficiency courses may be prescribed and added to the courses of the semester-wise given above.

\*Minimum 3 units.

**Pool of Electives (Any five from the following):**

Elective offerings are subject to availability of faculty for offering the elective and a minimum viable number of students opting for the elective.

BITS F462 Renewable Energy 3  
 CHE G526 Nuclear Engineering 4  
 EEE F422 Modern Control Systems 3  
 EEE C462 Advanced Power Systems 3  
 EEE G544 Steady State and Dynamics of Electrical Motors 5  
 EEE G553 Utility Applications of Power Electronics 3  
 EEE G554 Soft Switching Converter Technologies 3  
 EEE G555 Transformer and Motor Design 3  
 EEE G557 Drives for Electric Traction 3  
 EEE G558 DSP Based Implementation Drivers 3  
 EEE G572 Digital Signal Processing 5  
 EEE G593 Power Quality 5  
 MEL G622 Introduction to Artificial Neural Networks 4