

Veer Surendra Sai University of Technology.










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Master of Technology (M.Tech.) in Power Electronics, Electrical Machines and Drives

Introduction of Master of Technology (M.Tech.) in Power Electronics, Electrical Machines, and Drives

M.Tech in Power Electronics and Drives is a postgraduate Power Electronics degree. Electrical design, thermal design, electromagnetic design, electromechanical design, control design, and circuit design are among the more manageable tasks included in the power electronics design suite. When applied to the control and conversion of electric power, power electronics are electronic devices that use solid-state technology. Electricity is an essential part of our daily lives in industries, offices, and homes, and the field of power electronics plays a significant role in that. An electronic device that uses power can function as a switch as well as an amplifier. A comprehensive understanding of the technologies and scientific disciplines used in power electronics converters, electric machines, and electric energy conversion is a primary goal.

As part of the course curriculum, candidates study energy conversion, drives, industrial equipment, power control equipment, switchgear controls, and applications of fast-developing electronics such as electrical machines and power systems. The master's degree program also includes advanced courses in power converter-based systems used to convert electric energy using power converters.

Eligibility Criteria for M.Tech in Power Electronics, Electrical Machine, and Drives

Students also visited



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In India, students who fulfill all the eligibility requirements for M.Tech power electronics and drive admission may enroll. Applicants must take the entrance exams required by colleges to be eligible to apply for the M.Tech in Power Electronics and Drives. Furthermore, they must have an overall mark that is at least as good as the required aggregate mark to be admitted into their undergraduate program. The candidate must be 25 years old to apply for the M. Tech program. The entrance exams for college and national levels are both conducted. During the M.Tech Power Electronics and Drives program, there is a two-year course of study.

The M.Tech. in Power Electronics program offers several entrance exams at the national and state levels.

GATE

UPSEE

Benefits of Master of Technology (M.Tech.) in Power Electronics, Electrical Machines, and Drives

The course provides students with the knowledge required to design, model, simulate, and synthesize systems that are based on power converters for converting electricity. Courses covering power electronics and drives techniques are beneficial to provide special education in the field and provide an overview of critical fundamental principles and modern applications. By the end of the course, they will have many consulting firms, scientific research organizations, and manufacturing electronic and computer parts and machines.

Career and Job Opportunities after M.Tech in Power Electronics, Electrical Machine, and Drives

Graduates in Power Electronics and Drives can choose from a variety of employment opportunities. There are many electrical and electronics-based companies where one can find employment. For Example:

- Engineer Trainee
- Engineering Executive
- Senior Management Staff
- Regulatory Officer and much more

 Campus	University	 Delivery Mode
Sambalpur	Veer Surendra Sai University of Technology	
Eligibility	 Duration	 Type of Course
B. Tech/ BE in the same stream from a recognized Institute	2 Years	Post Graduate

Syllabus of Master of Technology (M.Tech.) in Power Electronics, Electrical Machines and Drives

Syllabus of M.Tech in Power Electronics, Electrical Machine, and Drives

Year 1

S.No	Subjects
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1	Power Electronic Converters and Machine Drives
2	Machine Analysis
3	Power Electronics and Machine Lab.
4	Advanced Machine Drives
5	Advanced Power Electronic Converters

Year 2

S.No	Subjects
1	Machine Drives Lab
2	Comprehensive Viva Voce
3	Thesis
4	Seminar

Veer Surendra Sai University of Technology Highlights

Established in	1956
University Type	State University
Recognized by	UGC , AICTE , NAAC ,
Courses	23

Top Courses	Top Institue	Online Course	Other Useful Link
Management	Amity University Jaipur	MBA	Study Abroad
Pharmacy	Chandigarh University	BBA	MBBS Abroad
Science	Manipal University, Jaipur	BCA	Research India (PHD)
Law	Kalinga University	MCA	Partner with UniversityKart
	SGT University		

