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kumar, (M.tech)*

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Essentially, techniques in
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M.Tech: Power Electronics

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electronics deals with

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highly efficient and controllable conversion of electric power. It is found in renewable energy production, electricity transmission, electric transportation, power supplies, industrial motor

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drives, electric energy
storage, lighting
applications, etc.

Power Electronics / KTH

The research and education
conducted at the Division of
Electric Power and Energy

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Systems covers areas including electricity markets, facilitating renewable electricity generation and its integration into the system, power system dynamics, operation and control, power

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Electronics and its
application in grids,
electric drives and machines
and their applications in
electric transportation, and
...

Division of Electric Power

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and Energy Systems / KTH

VTU M Tech EPE Subject Codes
for 1 sem, 2 sem, 3 sem, 4
semester POWER ELECTRONICS
Branch for 2016 scheme
updated for Jan 2020 Exams

VTU POWER ELECTRONICS 2016

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Scheme Subject Codes

The Electromechanics and Power Electronics group has a broad range of high power converters, supplies, generators and measuring equipment available for its power electronic and

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electromechanic needs. The
EPE Lab is located on the
ground floor of the Flux
building (FLX 0.560).

*Electromechanics and Power
Electronics*

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EPE Journal: Vol 30, No 3
M.TECH POWER ELECTRONICS
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SYSTEM (CBCS) SEMESTER - I
POWER SEMICONDUCTOR DEVICES
AND COMPONENTS (Core Course)
Course Code 16EPE12 IA Marks
20 Number of Lecture
Hours/Week 04 Exam Hours 03
Total Number of Lecture
Hours 50 Exam Marks 80

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Epo Vtu
Credits – 04 Course
objectives:

*Scheme of Teaching and
Examination and Syllabus*

The 22nd European Conference
on Power Electronics and
Applications EPE'20 ECCE

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Epe Vtu VIRTUAL | 7 - 11

September 2020 Although the situation seems to be improving in Europe, the CoVid-19 pandemic remains still a major concern and it has heavily affected the organization of EPE'20 ECCE

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Epe Ytu in Lyon.

*EPE'20 ECCE Europe | 22nd
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...

Module-1 Power Electronics:
Introduction, Converter
Classification, Power

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Electronics Concepts,
Electronic Switches, Switch
Selection, Spice, PSpice and
Capture, Representation of
switches in Pspice -The
Voltage-Controlled Switch,
Transistors, Diodes and
Thyristors (SCRs).

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M.Tech, Power

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SCHEME OF TEACHING AND

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ELECTRONICS (EPE) I SEMESTER

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Electronics. Welcome to
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This book is an advanced
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Power Electronics Design Handbook covers the basics of power electronics theory and components while emphasizing modern low-power components and applications.

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Coverage includes power semiconductors, converters, power supplies, batteries, protection systems, and power ICs. One of the unique features of the Power Electronics Design Handbook is the integration of

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component and system theory with practical applications, particularly energy-saving low-power applications. Many chapters also include a section that looks forward to future developments in that area. References for

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Further information or more in-depth technical reading are also included. Nihal Kularatna is a principal research engineer with the Arthur C. Clarke Foundation in Sri Lanka. He is also the author of Modern Electronic

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Test and Measuring

Instruments, published by the Institute of Electrical Engineers. Emphasizes low- and medium-power components Offers a unique mix of theory and practical application Provides a

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Useful guide to further
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This book presents a deep
review of various power
theories and shows how the
instantaneous active and
reactive power theory

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Provides an important basic knowledge for understanding and designing active filters for power conditioning. The only book of its kind, it also demonstrates how the instantaneous active and reactive power theory can be

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used for combined shunt-series filters and in Flexible AC Transmission Systems (FACTS) .

This book analyzes the thermal characteristics of power electronic devices

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(PEDs) with a focus on those used in wind and solar energy systems. The authors focus on the devices used in such applications, for example boost converters and inverters under different operating conditions. The

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Book explains in detail finite element modeling techniques, setting up measuring systems, data analysis, and PEDs' lifetime calculations. It is appropriate reading for graduate students and

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researchers who focus on the design and reliability of power electronic devices.

AC voltage frequency changes is one of the most important

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functions of solid state power converters. The most desirable features in frequency converters are the ability to generate load voltages with arbitrary amplitude and frequency, sinusoidal currents and

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voltages waveforms; the possibility of providing unity power factor for any load; and, finally, a simple and compact power circuit. Over the past decades, a number of different frequency converter

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topologies have appeared in the literature, but only the converters with either a voltage or current DC link are commonly used in industrial applications.

Improvements in power semiconductor switches over

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recent years have resulted in the development of many structures of AC-AC converters without DC electric energy storage. Such converters are an alternative solution for frequently recommended

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Systems with DC energy storage and are characterized by a lower price, smaller size and longer lifetime. Most of these topologies are based on the structure of the matrix converter. Three-

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Phase AC-AC Power Converters
Based On Matrix Converter
Topology: Matrix-reactance
frequency converters concept
presents a review of power
frequency converters, with
special attention paid to
converters without DC energy

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storage. Particular attention is paid to nine new converters named matrix-reactance frequency converters which have been developed by the author and the team of researchers from Institute of Electrical

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Engineering at the
University of Zielona Góra.
The topologies of the
presented matrix-reactance
frequency converters are
based on a three-phase
unipolar buck-boost matrix-
reactance chopper with

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source or load switches arranged as in a matrix converter. This kind of approach makes it possible to obtain an output voltage greater than the input one (similar to that in a matrix-reactance chopper) and a

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frequency conversion
(similar to that in a matrix
converter). Written for
researchers and Ph.D.
students working in the
field of power electronics
converters and drive
systems, Three-Phase AC-AC

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Power Converters Based On
Matrix Converter Topology:
Matrix-reactance frequency
converters concept will also
be valuable to power
electronics converter
designers and users; R&D
centers; and readers needing

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Industry solutions in
variable speed drive
systems, such as automation
and aviation.

This contributed volume is
written by key specialists
working in multidisciplinary

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fields in electrical engineering, linking control theory, power electronics, artificial neural networks, embedded controllers and signal processing. The authors of each chapter report the state of the art

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of the various topics addressed and present results of their own research, laboratory experiments and successful applications. The presented solutions concentrate on three main areas of

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interest: · motion control
in complex electromechanical
systems, including
sensorless control; · fault
diagnosis and fault tolerant
control of electric drives;
· new control algorithms for
power electronics

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converters. The chapters and the complete book possess strong monograph attributes. Important practical and theoretical problems are deeply and accurately presented on the background of an exhaustive state-of

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the art review. Many results are completely new and were never published before. Well-known control methods like field oriented control (FOC) or direct torque control (DTC) are referred as a starting point for

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modifications or are used for comparison. Among numerous control theories used to solve particular problems are: nonlinear control, robust control, adaptive control, Lyapunov techniques, observer design,

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model predictive control,
neural control, sliding mode
control, signal filtration
and processing, fault
diagnosis, and fault
tolerant control.

The 2014 Asia-Pacific

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Electronics and Electrical Engineering Conference (EEEC 2014) was held on December 27-28, 2014 in Shanghai, China. EEEEC has provided a platform for researchers, engineers, academicians as well as industrial

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professionals from all over the world to present their research results and development activities in Electroni

In the recent years the electrical power utilities

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have undergone rapid restructuring process worldwide. Indeed, with deregulation, advancement in technologies and concern about the environmental impacts, competition is particularly fostered in the

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generation side, thus allowing increased interconnection of generating units to the utility networks. These generating sources are called distributed generators (DG) and defined

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as the plant which is directly connected to distribution network and is not centrally planned and dispatched. These are also called embedded or dispersed generation units. The rating of the DG systems can vary

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between a few kW to as high as 100 MW. Various new types of distributed generator systems, such as microturbines and fuel cells in addition to the more traditional solar and wind power are creating

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significant new opportunities for the integration of diverse DG systems to the utility. Interconnection of these generators will offer a number of benefits such as improved reliability, power

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quality, efficiency,
alleviation of system
constraints along with the
environmental benefits.
Unlike centralized power
plants, the DG units are
directly connected to the
distribution system; most

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often at the customer end. The existing distribution networks are designed and operated in radial configuration with unidirectional power flow from centralized generating station to customers. The

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increase in interconnection of DG to utility networks can lead to reverse power flow violating fundamental assumption in their design. This creates complexity in operation and control of existing distribution

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networks and offers many technical challenges for successful introduction of DG systems. Some of the technical issues are islanding of DG, voltage regulation, protection and stability of the network.

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Some of the solutions to these problems include designing standard interface control for individual DG systems by taking care of their diverse characteristics, finding new ways to/or install and

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control these DG systems and finding new design for distribution system. DG has much potential to improve distribution system performance. The use of DG strongly contributes to a clean, reliable and cost

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effective energy for future. This book deals with several aspects of the DG systems such as benefits, issues, technology interconnected operation, performance studies, planning and design. Several authors have

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Contributed to this book
aiming to benefit students,
researchers, academics,
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