

Electrical engineering students completing this qualification will have demonstrated competence in all the graduate attributes at HEQSF level 6 contained in the ECSA E-08-PN standard for solving well defined electrical engineering problems: ... COMMUNICATION SYSTEMS 2 (COM261S) R 5,870.00. POWER SYSTEMS 2 (POS260S) R 5,870.00. PROCESS CONTROL 2 ...

The author of this thesis investigated and brought forward the design of an integrated monitoring protection and control system of a network in Cape Peninsula University of Technology (CPUT) campus based of the IEC 61850 standard.

Distributed Generation (DG) is gaining more and more attention worldwide as an alternative to large-scale central generating stations. The aim of this research project is to investigate the ...

o The proposed honours degree will provide a year of specialization in one of three sub-disciplines of electrical engineering, namely Power Systems, Control Systems and Communication Systems. Further specialization within these sub-disciplines is provided by elective modules within that sub-discipline that will be guided by the research ...

Thesis (MTech (Electrical Engineering))--Cape Peninsula University of Technology. Skip navigation. Home; Communities & Collections; Research Outputs; Researchers; ... and implementation of a protection scheme for power distribution systems, by establish algorithms in a hardware environment. The overcurrent relay was chosen for the model ...

The integration of the most widely used renewable energy, wind energy in the distribution system creates technical issues like stability of the grid, harmonic distortion, voltage regulation, active ...

Cape Peninsula University of Technology, a university in Cape Town, ... Engineering and Technology; Research Focus Area No 3: Smart Energy; Research Focus Area No 4: The Environment, Climate Change and Sustainability ... CPUT Bid Management System; Vendor Application Form; BBBEE Certificate; Notice to all CPUT Suppliers ;

Engineering. The Smart Grid, Microgrids and Electrical Power Generation, Transmission and Distribution have their basis in Electrical Engineering. Most complex engineering systems require the combination of many different types of technologies in order to improve and advance the operation and functions of the system. 2. Department directives

Programme Coordinator BET Electrical Engineering; KrishnamurthyS@cput.ac ; Department of Electrical, Electronic and Computer Engineering (DEECE) Room B0.02, Electrical, Electronic and Computer Engineering Building Block B, Bellville Campus; Qualifications: BEng (Electrical & Electronics); MEng

(Power Systems) and DTech/PhD (Electrical ...

Electrical, Electronic and Computer Engineering Dr ML Adonis 021 959 6246 AdonisMA@cput.ac Industrial and Systems Engineering Dr LZ Valentine (Acting) 021 969 6225 ValentineL@cput.ac Maritime Studies Mr E La Vita (Acting) 021 440 5755 LavitaE@cput.ac

Measurement Technology 3, Power Conversion 2, Power Electronics 3, Power Systems 3. Semester 6: *Engineering Project 4 (WIL), *Projects 4 (WIL Electrical), Electrical Distribution 3, Electrical Engineering 4, Electrical Machines 4, Electrical Protection 4, Electronics 4, Energy Management 4, Entrepreneurship 1, Experiential Learning 1 ...

Solar wind;Hybrid power systems;Electric power distribution;Solar energy -- Hybrid systems;Systems engineering: Issue Date: 2014: Publisher: Cape Peninsula University of Technology: Abstract: The research in this thesis deals with the application of Model Based Systems Engineering (MBSE) practices in the modelling of power systems.

The research in this thesis deals with the application of Model Based Systems Engineering (MBSE) practices in the modelling of power systems. More particularly, we have presented ... Centre for Distributed Power and Electronics Systems at the Cape Peninsula University of Technology for their advice and support during this research. May they ...

Cape Peninsula University of Technology Abstract: The widespread deregulation and restructuring of electric power utilities throughout the world and the surge in competition amongst utility companies has brought about the desire for improved economic efficiency of electric utilities and the provision of better service to energy consumers.

The Electrical Engineering field is divided into the following 5 specialised fields, as well as Computer Systems: Control Systems Dealing with theoretical and practical concepts in the measurement, acquisition and control of various manufacturing and/or refining processes, this sub-discipline places emphasis on the use of industryrelated techniques and tools such as ...

CDPES research areas include energy efficiency, renewable and alternative energy technology, distributed energy system technology, predictive control of power converters and electrical drives and Centre for Distributed Power & Electronic Systems (CDPES) - CPUT

Program Details. Graduates will have the knowledge and skills to contribute to the capacity of electrical engineering and related industries to maintain their competitiveness in a global marketplace through the application of latest technologies, value adding to existing products, process and services and the development of new, sustainable and innovative solutions.



Cput electrical engineering power systems

Smart power grids;Renewable energy sources;Electric power distribution;Energy development;Electric power transmission -- Reliability;Electric power system stability: Issue Date: 2018: Publisher: Cape Peninsula University of Technology: Abstract: Electrical energy can be easily used and converted to other forms of energy for various applications.

Develop power conversions for renewable energy sources and investigate interconnectivity of distributed resources with microgrids and electric power systems. Apply such technology over ...

No headers. This text is an introductory subject in the field of electric power systems and electrical to mechanical energy conversion. Electric power has become increasingly important as a way of transmitting and transforming energy in industrial, military and transportation uses.

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Studying EEE150S Electrical and Electronics Engineering at Cape Peninsula University of Technology? On Studocu you will find 105 lecture notes, 63 practice. Skip to main content. ... AC power and Resonance. Question 1/9 What is the special condition for inserting a value in place of a zero in the student number?

Mr Clive Whaits Research: RF and microwave circuits and systems Position: Senior lecturer Tel : +27 (0)21 460 3092 Email: whaitsc@cput.ac Office: Room 4.13a, 4th floor, Electrical engineering building, Cape Town campus Mr Jacques Wheeler Research: Instrumentation and power electronics

CPUT Engineering Courses Diplomas and Degrees Courses Engineering Please Note: All National Diploma Qualifications will be phased out from 2024, except ND: Electrical Engineering, ND: Computer Systems, ND: Maritime Studies, and ND: Mechanical (Marine Engineering) which will be phased out from 2024. Only students who have previously ...

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