College Code : SDES
SREE DATTHA INSTITUTE OF ENGINEERING & SCIENCE
(Autonomous, NAAC A+, NBA Accredited, Affiliated to JNTUH, Approved by AICTE, New Delhi)
Nagarjuna Sagar Road, Sheriguda (V), Ibrahimpatnam (M), R.R. Dist., Greater Hyderabad, Telangana-501510.
Website: www.sreedattha.ac.in Email: info@sreedattha.ac.in

Ref: SDES/CAC/2023/03/01

Date: 15/02/2023

CIRCULAR

This is to inform you that a meeting under CAC is scheduled on 15 Feb 2023 in the Board Room – SDES 107. All the members are requested to make it convenient to attend the meeting.

The agenda for the meeting is as follows,

- To review and approve the minutes of the previous discussion and finalize the action items.
- To discuss and review Syllabus Coverage.
- To review and finalize the co-curricular & extra-curricular activities.
- To discuss the proceedings regarding the conduction of Mid Examinations.
- To discuss the process of submitting the data to NIRF Portal.
- Any other aspects with the permission of the chair

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Copy to
Chairman
Vice-Chairman
Council of Academic Committee
HOD of all the Department

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Website: www.sreedattha.ac.in Email: info@sreedattha.ac.in

Ref: SDES/CAC/2023/03/01

Date: 03 Mar 2023

Minutes of Meetings

A meeting of the CAC was held on 01/03/2023 at 2:00 pm in the Board Room SDES-107. The Principal of SreeDattha Institute of Engineering & Science chaired the meeting. The Coordinator of CAC introduced himself and welcomed all members.

Agenda:

1. Review and approve the minutes of the previous meeting and finalize action items.
2. Discuss and review syllabus coverage.
3. Review and finalize co-curricular & extra-curricular activities.
4. Discuss proceedings regarding Mid Examinations.
5. Discuss the process for submitting data to the NIRF portal.
6. Any other matters with the permission of the chair.

Resolutions:

- Heads of Departments (HoDs) were asked to submit an action plan to address syllabus gaps, which was approved by the committee.
- HoDs were asked to finalize and provide a list of co-curricular & extra-curricular activities for the academic year 2022-23.
- HoDs were instructed to ensure timely preparation of question papers and evaluation of answer scripts.
- HoDs were directed to submit the required data to the NIRF Coordinator for participation in the NIRF Ranking.

The following Members attended the meting

Sl. No	Name	Designation
1	Dr. GNV Vaibhav Reddy	Vice Chairman
2	Dr.Parmeswar Rao	Principal
3	Dr. V. Achut Rao	Dean Academics
4	Dr. S K M. Basha	HOD, CSE
5	Dr.P.Rama Koteswara Rao	HOD,ECE
6	Dr.Sandeep Reddy	HOD,EEE
7	Mr.D.Rahulgi	HOD,ME

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Council of Academic Committee
HOD of all the Department

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INSTITUTE VISION AND MISSION

Vision:

- To develop this Institute as one of the premier & top-class institution in India.
- To be an academic institution in dynamic equilibrium with its social ecological and economic environment, striving continuously to excellence in education, research and technological service to nation.
-

Mission :

- To provide high quality enterprising students with excellent technological skills.
- To create and sustain a community of learning in which students acquire knowledge and learn to apply it professionally with due consideration for ethical and economic issues.
- To pursue research and disseminate research findings.
- To help in building national capabilities in science, technology, humanities, management, education and research.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE DEPARTMENT

To become a pioneer in the field of Computer Science and allied Engineering for academic excellence.

MISSION OF THE DEPARTMENT

- Interact with industry for professional development to meet the current industrial and societal needs.
- Offer quality education by implementing innovative teaching and learning practices.
- Promote and Involve in social, professional and leadership activities, for upliftment of quality of life.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISION OF THE DEPARTMENT

Become a centre of excellence in Electrical and Electronics Engineering to build quality teaching and research environment with human values.

MISSION OF THE DEPARTMENT

1. Promote industry collaborated research to provide sustainable engineering solutions.
2. Impart quality education and Research practices for societal needs
3. Promote activities to develop communication, leadership, professional skills with values and ethics among stakeholders.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISION OF THE DEPARTMENT

To become reputed center for Electronics & Communication Engineering education and inventions for the benefit of the society in India.

MISSION OF THE DEPARTMENT

- Train the Stakeholders to gain knowledge in Electronics & Communication Engineering.
- Promote and involve in Social, Professional & Leadership activities.
- Provide state of the Art facilities to promote logical and innovative thinking.
- Collaborate to meet the challenges and betterment of the mankind.

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DEPARTMENT OF MECHANICAL ENGINEERING

VISION OF THE DEPARTMENT

The Mechanical Engineering Department endeavors to be recognized globally for outstanding education and research leading to well qualified engineers, who are innovative, entrepreneurial and successful in advanced fields of mechanical engineering to cater the ever changing industrial demands and social needs.

MISSION OF THE DEPARTMENT

- To educate, prepare and mentor students to excel as professionals.
- To provide the facilities and environment conducive to high quality education to get diverse careers as well as research in the field of Mechanical Engineering.
- To engage the students in academic as well as scholarly activities, which strengthen the department reputation in global market.

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DEPARTMENT OF CIVIL ENGINEERING

VISION OF THE DEPARTMENT

To transform as a central hub for advanced research and innovation with excellence in civil engineering to meet the societal needs.

MISSION OF THE DEPARTMENT

1. Create congenital environment for interaction among stakeholders to facilitate open thinking and learning process.
2. Promote and involve in social, professional and leadership activities.
3. Provide state of the art facilities, quality faculty and industrial interactions leading to sustainable innovative design solutions.
4. Educate the stake holders to promote innovative and critical thinking to face the challenges of future.

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PROGRAM OUTCOMES (POs)

POs are statements that describe what students are expected to know and be able to do upon graduating from the program. These relate to the skills, knowledge, analytical ability attitude and behavior that students acquire through the program. The POs essentially indicate what the students can do from subject-wise knowledge acquired by them during the program. As such, POs define the professional profile of an engineering graduate. NBAhasdefinedthe followingtwelvePOs for an engineering graduate.

These are in line with theGraduate Attributes asdefined by theWashingtonAccord:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability

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CSE PEO'S, PO'S & PSO'S

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Establish as practicing professionals or researchers with continuous learning to solve problems in industry and society.
PEO2: Apply skills with mathematical, core engineering and contemporary technologies to analyze the requirements, prepare technical specifications, design and provide novel engineering solutions.
PEO3: Work as teams on multidisciplinary projects with leadership qualities, interpersonal, professional skills and ethical values.

PROGRAM SPECIFIC OUTCOMES

PSO1: Professional Skills: The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.
PSO2: Problem-Solving Skills: The ability to apply standard practices and strategies in software development using open-ended programming environments to deliver a quality product for business resources
PSO3: Sucessful Career and Entrepreneurship: The ability to employ modern computer languages, environments and platforms in creating innovative career paths to be an entrepreneur, enthusiasm for higher education, also include good manners and ethics for responsible, co-operative citizenship.

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ECE PEO'S, PO'S & PSO'S

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Pursue successful career in industry, research by applying contemporary Science, Engineering and Technical Skill with professional ethical values.

PEO 2: Apply the Technical Skills, Analyze the Requirements, Prepare Technical Specific designs and provide novel Engineering Solutions with Ethics.

PEO 3: Work in Multidisciplinary teams with effective Interpersonal skills to develop Sustainable Solutions for Industry and Society.

PEO 4: Adopt the Recent Emerging Technologies and become a lifelong learner to analyze and produce efficient product designs.

ROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: Apply concept of Electronics and Communication, Signal Processing, VLSI, Embedded System in the design and implementation of complex electronics systems.

PSO 2: An ability to solve complex problems using latest hardware and software tools along with analytical skills to arrive cost effective and appropriate solutions.

PSO 3: Develop application with the demonstration the social awareness and environmental wisdom along with ethical responsibility to develop real world application using optimal resources.

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EEE PEO's, PO's & PSO's

PROGRAM EDUCATIONAL OUTCOMES

PEO1: Apply mathematical, scientific and engineering fundamentals to solve engineering problems and pursue higher studies.
PEO2: Analyse, design, create novel products and sustainable solutions for the real-life problems with continuous learning.
PEO3: Exhibit the professional and ethical attitude, effective communication skills, inter personal skills to relate engineering issues to broader social context.

PROGRAM SPECIFIC OUTCOMES

PSO1: Develop models, analyse and assess the performance of different types of generation, transmission, distribution and protection mechanisms in power systems.
PSO2: Design, develop, analyse and test electrical and electronics systems; deploy control strategies for power electronics related and other applications.
PSO3: Measure, analyse, model and control the behaviour of electrical quantities associated with constituents of energy or allied systems.

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MECHANICAL PEOs, POs & PSOs

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates will be able to pursue successful professional career in Mechanical Engineering with sound technical and managerial capabilities.

Graduates will have skills and knowledge to formulate, analyze and solve problems in mechanical engineering to meet global challenges.

Graduates will be capable of pursuing mechanical engineering profession with good communication skills, leadership qualities, team spirit and professional ethics to meet the needs of the society.

Graduates will sustain an appetite for continuous learning by pursuing higher education and research in the allied areas of science and technology.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: Graduates will acquire theoretical and practical background of each course which they are capable of applying it for solving real-time (Physical) problems.

PSO 2: Graduates will acquire the knowledge of different technical tools which will enhance their technical and managerial skill.

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COURSE OUTCOMES

DATASTRUCTURE THROUGH C++

C212.1	Ability to **classify** appropriate data structures to represent data items in real world Problems
C212.2	**Describe** the concept of function overloading, operator overloading, virtual functions and polymorphism
C212.3	**Classify** inheritance with the understanding of early and late binding, usage of exception handling, generic programming
C212.4	Ability to **analyze** the time and space complexities of algorithms
C212.5	Ability to **design** programs using a variety of data structures such as stacks, queues, hash tables, search trees, and B-trees.
C212.6	Able to **analyze** and implement various kinds of searching and sorting techniques.

DATABASE MANAGEMENT SYSTEM

C222.1	Demonstrate the basic elements of a relational database management system
C222.2	Ability to distinguish the data models for relevant problems.
C222.3	Ability to design entity relationship model and convert entity relationship diagrams in to RDBMS and formulate SQL queries on the data.
C222.4	Apply normalization for the development of application software.
C222.5	Develop and evaluate a real database application using a database management system.
C222.6	Ability to **design** the database using functional dependencies..

Design and analysis of algorithms

C311.1	**Student are able** to analyze the performance of algorithms
C311.2	**Student are able** to choose appropriate algorithms
C311.3	**Student are able** to design techniques for solving problems.
C311.4	**Student are able** to discuss how the choice of data structures and the algorithm design methods impact the performance of programs
C311.5	**Student are able** to illustrate 0/1 knapsack problem

C311.6	**Student are able** to describe & solve travelling sales person

MOBILE COMPUTING

C321.1	Able to think and develop new mobile application
C321.2	Able to take any new technical issue related to this new paradigm and come up with a solution(s).
C321.3	Able to take any new technical issue related to Mobile Network Layer
C321.4	Able to classify Data Dissemination and Synchronization:
C321.5	Able to develop new ad hoc network applications and/or algorithms/protocols
C321.6	Able to understand & develop any existing or new protocol related to mobile Environment.

DESIGN PATTERNS

C412.1	Demonstration of patterns related to object oriented design.
C412.2	Describe the design patterns that are common in software applications
C412.3	Analyze a software development problem and express it.
C412.4	Design a module structure to solve a problem, and evaluate alternatives
C412.5	Implement a module so that it executes efficiently and correctly
C412.6	Analyze the architecture and build the system from the components

WEB SERVICES

C422.1	Describe the purpose of Distributed computing
C422.2	Understand the ways that how web services are came into existence are documented and classified and different technologies and standards.
C422.3	Use of Web service architecture on a J2EE implementation model and web service based applications
C422.4	Understands the SOAP Structure and the role of SOAP in Web Services
C422.5	Understand the WSDL definition, role of WSDL in web services and limitations
C422.6	Use the UDDI in web services and with some

CO-PO MAPPING

DATA STRUCTURES												
	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
C212.1:.	2	3	2	2	1							1
C212.2:	3	3	2	2	1							
C212.3:	3	3	2	2	1							1
C212.4:	3	3	2	1	1							1
C212.5	3	2	3	3								
C212.6:	3	3	3	3	2	1						
Design and analysis of algorithms												
C311.1:	3	3	3	3	2						2	
C311.2:	3		2	3								
C311.3:		3	3								1	
C311.4:		3	3									
C311.5:		3			2						1	1
C311.6:		2	3		2							1
LINUX PROGRAMMING												
C411.1	3	2		3						2		
C411.2		3			3						1	
C411.3	2			3		2				3		3
C411.4	3			3							1	
C411.5	2	3				3				3		
C411.6			3	2	2	2					2	3
OPERATING SYSTEMS												
C223.1:	3	3	2		2	2						2
C223.2:	3	2	3	3	3	2					1	
C223.3:	2	3	3	3	1	3				1		2
C223.4:	3	3	3	3	3	1					1	
C223.5:	3	3	2	2	1	2					1	2
C223.6 :	2	3	3	3	2	1						2
Mobile computing												
C3211.1:	3	3	3	1								
C3211.2:	2	3	3	3	3	1						
C3211.3:	3	3	3	3	3	3		2			1	1
C3211.4:	3	3	2	2	2	2					1	1
C3211.5:	3	3	3	3	3							
C3211.6:	3	3	3	3	3	3						
WEB SERVICES (Mapping of COs-POs)												
422.1	1	2	2		3						2	1
422.2	2	1	2	2	2						3	2
422.3	1	3		2								2
422.4	2	2	3	1	2							3

422.5	1	2	2		3						1	2
422.6	3	3	2	2	2		2					

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:
1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)
It there is no correlation, put "-"

Head of the Departmen
Department of CSE
Sree Dattha Institute of Engg. & Science
Sheriguda, Ibrahimpatnam, Hyd

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM SPECIFIC OUTCOMES

The students will have the ability to:

1. Develop models, analyse and assess the performance of different types of generation, transmission, distribution and protection mechanisms in power systems.
2. Design, develop, analyse and test electrical and electronics systems; deploy control strategies for power electronics related and other applications.
3. Measure, analyse, model and control the behaviour of electrical quantities associated with constituents of energy or allied systems.

Course Name: Electromagnetic Fields

C212.1	Apply vector calculus to static electric – magnetic fields.	Apply
C212.2	Understand the basic laws of electromagnetism	Understand
C212.3	Obtain the electric fields for simple configurations under static conditions	Evaluate
C212.4	Obtain the magnetic fields for simple configurations under static conditions	Evaluate
C212.5	Analyze time varying electric and magnetic fields.	Analyze
C212.6	Understand Maxwell's equation in different forms and different media	Understand

Course Name: Power Systems-I

C222.1	Awareness of general structure of power systems	Understand
C222.2	Impart the knowledge of generation of electricity based on conventional energy sources	Understand & Apply
C222.3	Analyze the mechanical construction of different hydraulic turbines	Analyze
C222.4	Design & Analyze different types of distribution systems	Create
C222.5	Impart Knowledge to design the layout of various substations.	Understand & Apply
C222.6	Analyze the Economic Aspects of power generation & Evaluate the Tariff methods	Analyze

Course Name: Electrical Measurements & Instrumentation

C311.1	Understand different types of measuring instruments, their construction, operation and characteristics	Understand
C311.2	Measure the voltage and current through potentiometers and instrument transformers	Evaluate
C311.3	Identify suitable method for measurement of active, reactive powers and energy	Analyze
C311.4	Apply the suitable method for the measurement of resistance, inductance and capacitance	Apply
C311.5	Apply the knowledge of different transducers for conversion of various energy to electrical energy	Apply
C311.6	Identify the instruments suitable for typical measurements	Analyze

Course Name: Power Electronics

C322.1	Relate the semiconductor physics to properties of power devices, and combine circuit mathematics and characteristics of linear and non-linear devices	Analyze
C322.2	Describe basic operation and compare performance of various power semi conductor devices, RC components and switching circuits	Apply
C322.3	Design & analyze power converters circuits and learn to select suitable power electronic devices by assessing the requirement of application field	Create
C322.4	Formulate & Analyze a power electronic design at the system level & assess the performance	Evaluate
C322.5	Identify critical areas in application levels and derive typical alternative solutions	Analyze
C322.6	Recognize role of power electronics play in improvement of energy usage efficiency & applications of PE in emerging areas	Analyze

Course Name: Power System Operation & Control

C414.1	An understanding of operational constraints, control objectives and their implementation, under normal and abnormal states of a power system	Understand
C414.2	Analyze Economic dispatch of thermal units and methods of solution, Unit commitment- Solution methods	Analyze
C414.3	To impart the knowledge of automatic generation control	Understand & Apply
C414.4	To impart the knowledge of automatic voltage regulation	Understand & Apply
C414.5	Interchange power and energy- Economy interchange between interconnected utilities	Analyze & Create
C414.6	Create awareness of Power system security -factors affecting power system security - contingency analysis	Create

Course Name: Seminar

C425.1	To study research papers for understanding of a new field, in the absence of a textbook, to summarize and review them.	Understand
C425.2	To identify promising new directions of various cutting edge technologies	Analyze
C425.3	To impart skills in preparing detailed report describing the project and results	Analyze
C425.4	To effectively communicate by making an oral presentation before an evaluation committee	Apply
C425.5	Ability to work in actual working environment	Apply
C425.6	Ability to utilize technical resources and demonstrate professional & ethical Responsibilities	Evaluate

CO – PSO Mapping

CO	PSO1	PSO2	PSO3
C212: Electro Magnetic Fields			
C212.1	3	2	1
C212.2	3	-	2
C212.3	2	1	3
C212.4	2	1	3
C212.5	3	-	-
C212.6	1	2	-
C222: Power systems-I			
C222.1	2	-	-
C222.2	3	2	1
C222.3	3	-	1
C222.4	3	2	-
C222.5	3	2	-
C222.6	3	-	1
C311: Electrical Measurements & Instrumentation			
C311.1	-	2	3
C311.2	1	2	3
C311.3	1	2	2
C311.4	1	-	3
C311.5	1	1	3
C311.6	-	1	3
C322: Power Electronics			
C322.1	1	3	2
C322.2	1	3	2
C322.3	1	3	2
C322.4	-	3	2
C322.5	1	3	2
C322.6	2	3	2
C414: Power system operation & control			
C414.1	2	-	3
C414.2	1	2	-
C414.3	1	-	3
C414.4	1	-	3
C414.5	1	1	-
C414.6	2	1	-
C425: Seminar			
C425.1	2	2	2
C425.2	1	1	1
C425.3	2	2	1
C425.4	1	1	1
C425.5	1	1	1
C425.6	2	2	2

CO – PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212: Electro Magnetic Fields												
C212.1	2	2	3	1	1	-	-	-	-	-	-	1
C212.2	3	2	1	1	-	-	1	-	-	-	-	2
C212.3	2	2	2	3	1	-	2	-	-	-	-	-
C212.4	2	2	2	3	1	-	2	-	-	-	-	-
C212.5	2	3	1	1	2	-	1	-	-	-	-	2
C212.6	3	2	1	2	3	-	2	-	-	-	-	1
C222: Power systems-I												
C222.1	3	2	3	2	-	-		-	-	-	-	-
C222.2	2	2	2	3	1	-	2	-	-	-	-	-
C222.3	2	1	3	2	-	-	1	-	-	-	-	-
C222.4	2	2	2	3	1	-	1	-	-	-	-	1
C222.5	2	2	3	2	1	-	1	-	-	-	-	1
C222.6	2	2	2	2	3	2	-	-	-	-	-	1
C311: Electrical Measurements & Instrumentation												
C311.1	2	1	2	2	3	-	-	-	-	-	-	-
C311.2	2	2	2	2	3	-	-	-	-	-	-	-
C311.3	2	2	1	3	2	-	-	-	-	-	-	-
C311.4	2	-	3	2	2	-	-	-	-	-	-	-
C311.5	2	-	3	2	2	-	-	-	-	-	-	-
C311.6	2	-	2	1	3	-	-	-	-	-	-	-
C322: Power Electronics												
C322.1	3	1	2	1	-	-	-	-	-	-	-	-
C322.2	1	1	3	2	-	-	-	-	-	-	-	-
C322.3	1	2	2	3	-	-	-	-	-	-	2	1
C322.4	1	2	2	3	-	-	-	-	-	-	2	1
C322.5	1	1	2	3	-	1	1	-	-	-	1	1
C322.6	1	2	3	2	-	2	2	-	-	-	2	3
C414: Power system operation & control												
C414.1	2	3	2	1	2	-	-	-	-	-	-	-
C414.2	2	2	3	1	2	1	-	-	-	-	2	-
C414.3	2	2	3	2	2	-	-	-	-	-	2	-
C414.4	2	2	3	2	2	-	-	-	-	-	2	-
C414.5	3	-	1	-	2	1	-	-	-	-	-	1
C414.6	3	1	-	1	2	2	2	-	-	-	1	2
C425: Seminar												
C425.1	2	2	2	3	1	-	-	-	-	-	1	1
C425.2	2	2	2	2	3	-	-	-	-	-	2	2
C425.3	2	-	-	-	-	-	-	-	2	3	2	2
C425.4	3	2	2	1	2	-	-	1	-	3	1	2
C425.5	2	2	2	1	2	3	2	1	1	1	1	1
C425.6	2	2	2	1	2	2	2	3	2	2	2	2

Note:
Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

HOD
Department of EEE
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