



GALGOTIAS UNIVERSITY

Programme Structure 2023-24

School/Dept.		DEECE	Program Name					B.Tech. EEE		
Semester		I								
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type	
1	C1UC122B	Engineering Mathematics-I	3	0	1		4	5	AEC	
2	E2UC102C	Programming for Problem Solving – C	2	0	1	1	4	5	SEC	
3	G2UA120B	Basic Electrical & Electronics Engineering	3	0	1	0	4	5	SEC	
4	C1UD124B	Semi-conductor and Opto Electronic Devices	3	0	1		4	5	SEC	
5	G3UB101B	Engineering Design and Prototyping	3	0	1		4	5	SEC	
6	C1UB120T	Environmental Impact Analysis	2	0	0	0	0	2	VAC	
			Total				20			

Semester		II							
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type
1	C1UB129T	Chemical and Biological Materials	3	0	0		3	3	VAC
2	C1UC222B	Engineering Mathematics-II	3	0	1		4	4	AEC
3	G2UC101B	Introduction to Digital Systems	2	0	1		3	5	SEC
4	E2UC201C	OOPS	2	0	1	1	4	5	SEC
5	C1UC224T	Discrete Mathematics	3	0	0		3	3	AEC
6	O1UA104B	Communication Skills for Engineers	2	0	1		3	4	VAC
7	L1UB120T	Yoga	2	0	0	0	0	2	VAC
			Total				20		

Semester		III	Total				20		
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type
1	C1UC321T	Functions of Complex Variables and Transforms	3	0	0		3	3	AEC
2	G2UC301C	Electronic Devices and Circuits	3	0	1	1	5	5	SEC
3	G2UB301B	Network Analysis and Synthesis	3	0	1		4	5	SEC
4	G2UC302T	Signals and Systems	3	0	0		3	3	SEC
5	G2UC303T	Electromagnetic Field Theory	3	0	0		3	3	SEC
6	K1UC320B	Communication Competency & Aptitude Building-1	1	0	1		2	3	VAC
			Total				20		

Semester		IV	Program				Dr. Mohammad		
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type
1	C1UC420T	Probability and Stochastic Processes	3	0	0		3	3	AEC
2	G2UB407T	Control Systems	3	0	0		3	3	SEC
3	G2UB402B	Electrical Machine-I	3	0	1		4	5	SEC
4	G2UB406T	Fundamentals of Power Systems	3	0	0		3	4	SEC
5	G2UB405C	Electrical Measurement and Instrumentation	3	0	1	1	5	5	SEC
6	O1UA421B	Communication Competency & Aptitude Building-2	1	0	1		2	3	VAC
			Total				20		

Semester		V							
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type
1	G2UB501B	Electrical Machine-II	3	0	1		4	5	SEC
2	G2UB502T	Power System Analysis	3	0	0		3	3	SEC
3	G2UB503C	Power Electronics	3	0	1	1	5	5	SEC
4	G2UB504B	Microcontroller and Embedded System	3	0	1		4	5	SEC

Galgotias Publications Electrical Engineering

**Ambikapathy, Shobana
R., Logavani, Dharmasa**



Galgotias Publications Electrical Engineering:

Innovations in Electrical and Electronic Engineering Saad Mekhilef, Margarita Favorskaya, R. K. Pandey, Rabindra Nath Shaw, 2021-05-24 This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering ICEEE 2020 held on January 23 2021 The book focuses on the current developments in various fields of electrical and electronics engineering such as power generation transmission and distribution renewable energy sources and technologies power electronics and applications robotics artificial intelligence and IoT control automation and instrumentation electronics devices circuits and systems wireless and optical communication RF and microwaves VLSI and signal processing The book is a valuable resource for academics and industry professionals alike

Innovations in Electrical and Electronic Engineering Margarita N. Favorskaya, Saad Mekhilef, Rajendra Kumar Pandey, Nitin Singh, 2020-07-25 The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering ICEEE 2020 held in National Power Training Institute HQ Govt of India on February 21 22 2020 The work focuses on the current development in the fields of electrical and electronics engineering like power generation transmission and distribution renewable energy sources and technology power electronics and applications robotics artificial intelligence and IoT control and automation and instrumentation electronics devices circuits and systems wireless and optical communication RF and microwaves VLSI and signal processing The book is beneficial for readers from both academia and industry

Reliability Analysis of Modern Power Systems R. K. Saket, Sanjeevikumar Padmanaban, 2024-09-04 A reader friendly introduction to reliability analysis and its power systems applications The subset of probability theory known as reliability theory analyzes the likelihood of failure in a given component or system under given conditions It is a critical aspect of engineering as it concerns systems of all kinds not least modern power systems with their essential role in sustaining the technologies on which modern life relies Reliability Analysis of Modern Power Systems is a thorough accessible book introducing the core concepts of reliability theory as they apply to power systems engineering as well as the advanced technologies currently driving new frontiers in reliability analysis It is a must own for anyone looking to understand and improve the systems that power our world Readers will also find Detailed discussion of reliability modeling and simulation of composite systems using Typhoon HIL 404 Reliability assessment of generation systems transmission systems distribution systems and more Information on renewable energy integration for more sustainable power grids Reliability Analysis of Modern Power Systems is ideal for professionals engineers and researchers in power system design and reliability engineering as well as for advanced undergraduate and graduate students in these and related subjects

Power-Flow Modelling of HVDC Transmission Systems Shagufta Khan, Suman Bhowmick, 2022-12-23 This book deals exclusively with the power flow modelling of HVDC transmission systems Different types of HVDC transmission systems their configurations connections and control techniques are covered in detail Power Flow modelling of both LCC and VSC based HVDC systems is

covered in this book Both the unified and the sequential power flow methods are addressed DC grid power flow controllers and renewable energy resources like offshore wind farms OWFs are also incorporated into the power flow models of VSC HVDC systems The effects of the different power flow methods and HVDC control strategies on the power flow convergence are detailed along with their implementation Features Introduces the power flow concept and develops the power flow models of integrated AC DC systems Different types of converter control are modelled into the integrated AC DC power flow models developed Both unified and the sequential power flow methods are addressed DC grid power flow controllers like the IDCPFC and renewable energy resources like offshore wind farms OWFs are introduced and subsequently modelled into the power flow algorithms Integrated AC DC power flow models developed are validated by implementation in the IEEE 300 bus and European 1354 bus test networks incorporating different HVDC grids This book aims at researchers and graduate students in Electrical Engineering Power Systems and HVDC Transmission

Smart Grids and Internet of Things

Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen, Rajesh Kumar Dhanaraj, Malathy Sathyamoorthy, Balamurugan Balusamy, 2023-05-02 SMART GRIDS AND INTERNET OF THINGS Smart grids and the Internet of Things IoT are rapidly changing and complicated subjects that are constantly changing and developing This new volume addresses the current state of the art concepts and technologies associated with the technologies and covers new ideas and emerging novel technologies and processes Internet of Things IoT is a self organized network that consists of sensors software and devices The data is exchanged among them with the help of the internet Smart Grids SG is a collection of devices deployed in larger areas to perform continuous monitoring and analysis in that region It is responsible for balancing the flow of energy between the servers and consumers SG also takes care of the transmission and distribution power to the components involved The tracking of the devices present in SG is achieved by the IoT framework Thus assimilating IoT and SG will lead to developing solutions for many real time problems This exciting new volume covers all of these technologies including the basic concepts and the problems and solutions involved with the practical applications in the real world Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library Smart Grids and Internet of Things Presents Internet of Things IoT and smart grid SG integrated frameworks along with their components and technologies Covers the challenges in energy harvesting and sustainable solutions for IoTSGs and their solutions for practical applications Describes and demystifies the privacy and security issues while processing data in IoTSG Includes case studies relating to IoTSG with cloud and fog computing machine learning and blockchain

Unmanned Aerial Vehicle Cellular Communications Agbotiname Lucky Imoize, Sardar M. N. Islam, T. Poongodi, Lakshmana Kumar Ramasamy, B.V.V. Siva Prasad, 2022-10-11 The book discusses how Unmanned Aerial Vehicles UAVs can leverage the sub 6 GHz massive MIMO to address cell selection and interference issues in future wireless networks The book takes a close look at utilizing UAVs to achieving direct and efficient device to device D2D communications in the sky Also the key 6G enablers

cell free architectures artificial intelligence reconfigurable intelligent surfaces THz communications and non terrestrial networks for UAV communication are broached and the primary technological challenges of each enabler are discussed extensively Furthermore the book covers the design of adaptable UAVs to operate in diverse and harsh environmental conditions Additionally the existing UAVs networking protocols and how these can be greatly enhanced to address the issue of intermittent network changes and channel impairments are discussed The prospects and societal benefits envisioned in future UAVs are also presented *Smart Healthcare for Sustainable Urban Development* Madaan, Rosy,Bhatia, Komal Kumar,Panda, Supriya P.,Jain, Vishal,Gulati, Payal,2022-06-24 With the development of information technology the concept of smart healthcare has been evolving gradually A new generation of information technologies such as the internet of things cloud computing big data and artificial intelligence have transformed the old medical system and improved the efficiency convenience and personalization of healthcare These changes are necessary to keep up with the requirements of individual people and the improvements in the efficiency of medical care which largely enhances the experience of medical and health services Smart Healthcare for Sustainable Urban Development discusses current challenges of digital healthcare adoption as well as how the internet of things and big data technologies can help promote digital healthcare adoption and improve healthcare efficiency The book also considers how information technologies can support the adoption of smart health for overall improved healthcare delivery and access Covering topics such as artificial intelligence and smart hospitals this reference work is ideal for researchers scholars practitioners academicians industry professionals instructors and students

Computational Convergence and Interoperability in Electronic Health Records (EHR) Mishra, Renu,Dwivedi, Vimal,Saxena, Sandeep,2024-08-27 The digitization of patient records has ushered in a new era of possibilities in the healthcare industry helping it to keep pace with the ever evolving landscape However the need for more seamless interoperability in Electronic Health Record EHR systems poses a significant challenge This fragmented landscape inhibits the exchange integration and analysis of crucial health data hindering efforts to deliver optimal patient care and impeding the advancement of healthcare procedures By unraveling the complexities of computational convergence and highlighting the pivotal role of interoperability Computational Convergence and Interoperability in Electronic Health Records EHR provides a roadmap for transforming healthcare delivery It equips data analysts medical professionals and IT specialists with the knowledge and tools needed to navigate the intersection of healthcare and technology enabling them to leverage emerging trends and standards to improve patient outcomes *Advances in AI for Biomedical Instrumentation, Electronics and Computing* Vibhav Sachan,Shahid Malik,Ruchita Gautam,Parvin Kumar,2024-06-13 This book contains the proceedings of 5th International Conference on Advances in AI for Biomedical Instrumentation Electronics and Computing ICABEC 2023 which provided an international forum for the exchange of ideas among researchers students academicians and practitioners It presents original research papers on subjects of AI Biomedical Communications Computing Systems Some interesting

topics it covers are enhancing air quality prediction using machine learning optimization of leakage power consumption using hybrid techniques multi robot path planning in complex industrial dynamic environment enhancing prediction accuracy of earthquake using machine learning algorithms and advanced machine learning models for accurate cancer diagnostics Containing work presented by a diverse range of researchers this book will be of interest to students and researchers in the fields of Electronics and Communication Engineering Computer Science Engineering Information Technology Electrical Engineering Electronics and Instrumentation Engineering Computer applications and all interdisciplinary streams of Engineering Sciences *Recent Trends in Intelligent Computing and Communication* Pushpa Choudhary,Sambit Satpathy,Arvind Dagur,Dhirendra Kumar Shukla,2025-09-30 This book emerges from the exchange of research insights and innovative ideas in the domains of Artificial Intelligence Intelligent Computing Blockchain Communication and Security With a special emphasis on intelligent financial systems secure transactions real time monitoring and assistive technologies this proceedings compilation serves as a comprehensive resource on technologies shaping the digital era Key features of this book include A wide ranging exploration of current research trends in Artificial Intelligence and Blockchain with emphasis on their integration into secure and intelligent living systems Detailed illustrations of system models and architectures that portray real world AI applications In depth discussions on the practical role of AI and Blockchain in sectors like banking healthcare communication navigation and cybersecurity An analytical perspective on the challenges and future opportunities of deploying AI and Blockchain in healthcare education finance and other industries This book is intended for research scholars academicians undergraduate and postgraduate students Ph D candidates industry professionals technologists and entrepreneurs seeking to deepen their understanding of intelligent and secure systems **Intelligent Networks** Vivek Kumar Singh,Anil Kumar Sagar,Parma Nand,Rani Astya,Omprakash Kaiwartya,2024-12-12 The book presents the latest developments in intelligent communication networks based on applicability from various domains of artificial intelligence and machine learning including channel modeling model based structure channel prediction and signal detection It further explains important topics such as vehicular mobility modeling human centric network applications security and privacy in social networks and trust based intelligent transportation systems This book Presents a model based approach to constructing an effective network by using state of the art artificial intelligent techniques Discusses the theoretical and practical applications of channel prediction and signal detection Introduces the fundamental concepts and application of vehicular networks in conjunction with artificial intelligence Explores wireless communication network techniques enabled by human centric applications designed and developed with artificial intelligence characteristics Highlights the challenges in designing and developing an effective and intelligent communication network that can be applied in different domains of human activities for finding sustainable solutions It is primarily written for senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer

engineering and information technology Human-Machine Collaboration and Emotional Intelligence in Industry 5.0
Kumar, Nitendra, Pal, Surya Kant, Agarwal, Priyanka, Rosak-Szyrocka, Joanna, Jain, Vishal, 2024-07-22 In the rapidly evolving landscape of Industry 5.0 integrating emotional intelligence into the industrial framework is becoming increasingly crucial. Organizations are trying to navigate this uncharted territory and seeking guidance on understanding, implementing and ethically managing artificial emotional intelligence (AEI). However, the absence of a comprehensive resource addressing these complexities has left a significant void in academic scholarship and industrial practice. Human Machine Collaboration and Emotional Intelligence in Industry 5.0 offers a holistic exploration of emotion recognition, affective computing and human robot interaction. It equips readers with the knowledge and tools to successfully integrate AEI into Industry 5.0 ensuring a harmonious collaboration between humans and machines. This book is a go to resource for scholars, industry professionals and decision makers seeking to leverage emotional intelligence in the Fifth Industrial Revolution by addressing practical implementations, ethical considerations and real world impacts. **Reinvention of Health Applications with IoT**

Ambikapathy, Shobana R., Logavani, Dharmasa, 2022-03-22 This book discusses IoT in healthcare and how it enables interoperability, machine to machine communication, information exchange and data movement. It also covers how healthcare service delivery automates patient care with the help of mobility solutions, new technologies and next gen healthcare facilities with challenges faced and suggested solutions. Reinvention of Health Applications with IoT: Challenges and Solutions presents the latest applications of IoT in healthcare along with challenges and solutions. It looks at a comparison of advanced technologies such as Deep Learning, Machine Learning and AI and explores the ways they can be applied to sensed data to improve prediction and decision making in smart health services. It focuses on society 5.0 technologies and illustrates how they can improve society and the transformation of IoT in healthcare facilities to support patient independence. Case studies are included for applications such as smart eyewear, smart jackets and smart beds. The book will also go into detail on wearable technologies and how they can communicate patient information to doctors in medical emergencies. The target audiences for this edited volume are researchers, practitioners, students as well as key stakeholders involved in and working on healthcare engineering solutions. **Cyber Physical Energy Systems**

Shrddha Sagar, T. Poongodi, Rajesh Kumar Dhanaraj, Sanjeevikumar Padmanaban, 2025-01-02 This book is essential for understanding the transformative integration of cyber physical systems in smart grids, providing valuable insights that will shape the future of sustainable energy production and distribution. A novel modeling methodology that blends cyber and physical components is a significant advancement for future energy systems. A Cyber Physical System (CPS) is an integrated component of physical microgrids that combines computers, wireless connections and controls to create a holistic solution. As a result of cyber physical systems, a new generation of engineering systems incorporating wireless communication has begun to emerge. Despite that there are various major CPS systems in use today, one of the most challenging sectors for implementation is the smart grid, which aims to

distribute dependable and efficient electric energy while maintaining a high level of global environmental sustainability Smart grids incorporate advanced monitoring to ensure a secure efficient energy supply enhancing generator and distributor performance while offering consumers more choices These systems aim to boost the capacity and responsiveness of energy production transmission distribution and consumption As renewable energy sources grow traditional methods are being challenged requiring cross domain integration of energy systems and data This book explores architectures and methods for integrating cutting edge technology into the power grid for more sustainable energy production and distribution

Advanced Frequency Regulation Strategies in Renewable-Dominated Power Systems Sandeep Dhundhara,Yogendra Arya,Ramesh C. Bansal,2023-09-01 Advanced Frequency Regulation Strategies in Renewable Dominated Modern Power Systems discusses advanced control strategies positioned to attain stable and reliable electric power operation in highly renewable modern grids These strategies are increasingly valuable components of the practitioner technical toolbox and are essential to maintain frequency and voltage regulations assert power quality standards and ensure overall grid stability This book focuses on the rapid integration of renewable based generating units in power systems highlighting state of the art technologies and emerging topics pertaining to load frequency control robust control strategies and energy storage systems Chapters are accompanied by case studies drawn from modern international practice Disseminates novel control strategies for the reliable and robust control of renewable generating units Discusses implementation using case studies that address multiple frequency control applications across integrated modern power systems Accompanied by simulation models in MATLAB that are built to emphasize practical usage and address real world problems

Quantum Innovations at the Nexus of Biomedical Intelligence Dutt, Vishal,Kumar, Abhishek,Ahuja, Sachin,Baliyan, Anupam,Vyas, Narayan,2023-12-29 The convergence of quantum technologies and biomedical intelligence is a frontier of boundless potential The quantum advancements revolutionize disease detection personalized medicine and health monitoring frameworks while confronting the pressing challenge of accountability in machine learning systems within the biomedical domain How do quantum innovations at the nexus of biomedical intelligence redefine biomedical research and healthcare addressing critical inquiries such as the transformative potential of quantum computing machine learning and sensing technologies Quantum Innovations at the Nexus of Biomedical Intelligence explores the intricate synergy between quantum mechanics and the biomedical domain This book elucidates the profound implications and applications arising from the fusion of quantum computing artificial intelligence and biomedical sciences This book introduces biomedical engineering setting the stage for a deep dive into the transformative role of quantum computing and artificial intelligence As the narrative unfolds the text navigates the reader through the uncharted territories of quantum enhanced machine learning quantum sensing and their profound impact on diagnostics personalized medicine and health monitoring frameworks The intersection of quantum computing and AI in medical advancements and cybersecurity is illuminated offering a comprehensive understanding of the multifaceted

applications of these cutting edge technologies This book is ideal for researchers scientists academics and professionals across diverse disciplines in quantum innovations within biomedical intelligence

Artificial Intelligence Applications in Agriculture and Food Quality Improvement Khan, Mohammad Ayoub,Khan, Rijwan,Praveen, Pushkar,2022-05-27 Food is a necessary aspect of human life and agriculture is crucial to any country s global economy Because the food business is essential to both a country s economy and global economy artificial intelligence AI based smart solutions are needed to assure product quality and food safety The agricultural sector is constantly under pressure to boost crop output as a result of population growth This necessitates the use of AI applications Artificial Intelligence Applications in Agriculture and Food Quality Improvement discusses the application of AI machine learning and data analytics for the acceleration of the agricultural and food sectors It presents a comprehensive view of how these technologies and tools are used for agricultural process improvement food safety and food quality improvement Covering topics such as diet assessment research crop yield prediction and precision farming this premier reference source is an essential resource for food safety professionals quality assurance professionals agriculture specialists crop managers agricultural engineers food scientists computer scientists AI specialists students libraries government officials researchers and academicians

Quantum Blockchain Rajesh Kumar Dhanaraj,Vani Rajasekar,SK Hafizul Islam,Balamurugan Balusamy,Ching-Hsien Hsu,2022-07-04 QUANTUM BLOCKCHAIN While addressing the security challenges and threats in blockchain this book is also an introduction to quantum cryptography for engineering researchers and students in the realm of information security Quantum cryptography is the science of exploiting quantum mechanical properties to perform cryptographic tasks By utilizing unique quantum features of nature quantum cryptography methods offer everlasting security The applicability of quantum cryptography is explored in this book It describes the state of the art of quantum blockchain techniques and sketches how they can be implemented in standard communication infrastructure Highlighting a wide range of topics such as quantum cryptography quantum blockchain post quantum blockchain and quantum blockchain in Industry 4 0 this book also provides the future research directions of quantum blockchain in terms of quantum resilience data management privacy issues sustainability scalability and quantum blockchain interoperability Above all it explains the mathematical ideas that underpin the methods of post quantum cryptography security Readers will find in this book a comprehensiveness of the subject including The key principles of quantum computation that solve the factoring issue A discussion of a variety of potential post quantum public key encryption and digital signature techniques Explanations of quantum blockchain in cybersecurity healthcare and Industry 4 0 Audience The book is for security analysts data scientists vulnerability analysts professionals academicians researchers industrialists and students working in the fields of quantum blockchain cybersecurity cryptography and artificial intelligence with regard to smart cities and Internet of Things

Brain-Computer Interface M. G. Sumithra,Rajesh Kumar Dhanaraj,Mariofanna Milanova,Balamurugan Balusamy,Chandran Venkatesan,2023-02-10 BRAIN COMPUTER INTERFACE It covers all the

research prospects and recent advancements in the brain computer interface using deep learning The brain computer interface BCI is an emerging technology that is developing to be more functional in practice The aim is to establish through experiences with electronic devices a communication channel bridging the human neural networks within the brain to the external world For example creating communication or control applications for locked in patients who have no control over their bodies will be one such use Recently from communication to marketing recovery care mental state monitoring and entertainment the possible application areas have been expanding Machine learning algorithms have advanced BCI technology in the last few decades and in the sense of classification accuracy performance standards have been greatly improved For BCI to be effective in the real world however some problems remain to be solved Research focusing on deep learning is anticipated to bring solutions in this regard Deep learning has been applied in various fields such as computer vision and natural language processing along with BCI growth outperforming conventional approaches to machine learning As a result a significant number of researchers have shown interest in deep learning in engineering technology and other industries convolutional neural network CNN recurrent neural network RNN and generative adversarial network GAN Audience Researchers and industrialists working in brain computer interface deep learning machine learning medical image processing data scientists and analysts machine learning engineers electrical engineering and information technologists

Smart Power Distribution Systems Qiang Yang,Ting Yang,Wie Li,2018-10-17 Smart Power Distribution Systems Control Communication and Optimization explains how diverse technologies work to build and maintain smart grids around the globe Yang Yang and Li present the most recent advances in the control communication and optimization of smart grids and provide unique insight into power system control sensing and communication and optimization technologies The book covers control challenges for renewable energy and smart grids communication in smart power systems and optimization challenges in smart power system operations Each area discussed focuses on the scientific innovations relating to the approaches methods and algorithmic solutions presented Readers will develop sound knowledge and gain insights into the integration of renewable energy generation in smart power distribution systems Presents the latest technological advances in electric power distribution networks with a particular focus on methodologies approaches and algorithms Provides insights into the most recent research and developments from expert contributors from across the world Presents a clear and methodical structure that guides the reader through discussion and analysis providing unique insights and sound knowledge along the way

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