

Faculty Development Program



		Discussion Points
		- Predictive Analytics in Renewable and Health
		Sector
		- Smartgrid Technologies
		- Choice of ANN architectures
Title : Emerging Engineer Artificial Intelligence (E2.		- Digital Twin Technologies for Electrical Vehicles
		- AI based Digital Transformation in Industry 4.0
		- Modern Optimization Techniques and its
		applications
Date : 02-Apr-2024 - 06-Apr-2024		- Machine Learning and its Applications in
Time : 10:00 - 17:30	r	Electrical Engineering
Venue : TT 311		- Deep Learning Models - Concepts and
		Applicability in Renewable Energy and Healthcare
		Sector
		- Application of Industry 4.0 in Robotics and
		Automation
		- Application ANN Fuzzy in Power System Stability
		Improvement

Resource Person 1 - DetailsName : Dr L Ashok KumarDesignation : Professor, Electrical EngineeringUniversity/ Company : PSG College of Technology, CoimbatoreAddress : INDIA, 641004.		
Resource Person 2 - Details Name : Dr Vijayakumar K Designation : Associate Professor, Electrical Engineering University/ Company : IIITDM Kancheepuram , Kancheepuram Address : INDIA, 600127.		
 Resource Person 3 - Details Name : Mathew M. Noel Designation : Professor Higher Academic Grade, School of Electrical Engineering University/ Company : VIT, Vellore Address : India, 632014. 		
Resource Person 4 - Details Name : Raja Singh R Designation : Associate Professor Sr., Automotive Research Centre University/ Company : VIT, Vellore Address : India, 632014.		
 Resource Person 5 - Details Name : Mr Gopinath PS Designation : COO and Deputy MD, BASE Automation Technologies Pv Ltd University/ Company : BASE Automation Technologies Pvt Ltd, Chennai Address : India, 600096. 		
Resource Person 6 - Details Name : Albert Alexander S Designation : Associate Professor Grade 2, School of Electrical Engineering University/ Company : VIT, Vellore Address : India, 632014.		
Resource Person 7 - Details Name : Dr Udhayakumar K Designation : Professor, Electrical Engineering University/ Company : Anna University, Chennai Address : India, 600025.		
Resource Person 8 - Details Name : Dr S N Deepa Designation : Associate Professor, Electrical Engineering University/ Company : NIT Calicut, Kozhikode Address : India, 673601.		

	Resource Person 9 - Details
	Name : Mr Manikandan P
	Designation : Chief Technology Officer, CodenPlay Robotics
	University/ Company : CodenPlay Robotics , Bangalore
	Address : India, 560060.
	Resource Person 10 - Details
	Name : Dr Kumaravel S
	Designation : Associate Professor, Electrical Engineering
	University/ Company : NIT Calicut, Kozhikode
	Address : India, 560060.

Resource Person's Profile :

1. Profile of Dr L Ashok Kumar

Dr. L. Ashok Kumar was a Postdoctoral Research Fellow from San Diego State University, California. He was selected among seven scientists in India for the BHAVAN Fellowship from IUSSSTF and also received SYST Fellowship from DST, Govt. of India. He has 3 years of industrial experience and 22 years of academic and research experience. He has published 173 technical papers in International and National journals and presented 167 papers in National and International Conferences. He has completed 2

2. Profile of Dr Vijayakumar K

Dr. Vijayakumar Krishnasamy completed his PhD from NIT Trichy and his Post Doctoral from Nanyang Technological University, Singapore. Dr. Vijayakumar Krishnasamy completed his PhD from NIT Trichy and his Post Doctoral from Nanyang Technological University, Singapore. He is currently working as an Associate Professor in Indian Institute of Information Technology Design and Manufacturing Kancheepuram. His area of interest smart grid and renewable energy systems.

3. Profile of Mathew M. Noel

Dr. Mathew M- Noel received the M.Tech. degree in electrical engineering from BTS Pilani, India, in 2000, the Ph.D. degree from University of Alabama at Birmingham, in 2005. He is currently working as an Dean and Professor (HAG) with School of Electrical Engineering, Vellore Institute of Technology (VIT), Vellore, India. He has more than 20 years of teaching experience. His research interest areas are Machine Learning, Control, Optimization.

4. Profile of Raja Singh R

R. Raja Singh received the B.Tech. degree in electrical engineering from Pondicherry University, India, in 2004, the M.E. degree in power electronics and drives from Anna University, India, in 2008, and the Ph.D. degree in electrical drives from the Indian Institute of Technology (IIT) Roorkee, India, in 2017.,He is currently working as an Associate Professor with the Department of Energy and Power Electronics.

5. Profile of Mr Gopinath PS

Mr.Gopinath is a next-gen entrepreneur and a passionate leader. As one of the main functionaries of the BASE Automation Group, he plays a key role in its scaling up towards accelerated growth to become the system integrator of the future. He currently holds the position of Deputy Managing Director and COO at BASE Automation Technologies Pvt Ltd Chennai and is the Founder of BASE Automation INC USA. He is also the treasurer of International Society of Automation, SOIND Chapter

6. Profile of Albert Alexander S

Dr.S. Albert Alexander is the recipient of prestigious Raman Research Fellowship from the University Grants Commission (Government of India). He is a Postdoctoral Research Fellow from Northeastern University, Boston, Massachusetts, USA. His current research focuses on fault diagnostic systems for solar energy conversion systems and smart grids. He has 17 years of academic and research experience.

7. Profile of Dr Udhayakumar K

Experienced and accomplished Professor with a demonstrated history of working in Academia. Strong education professional skilled in Lecturing, Curriculum Development, Students Mentoring, Career Guidance, Skill Development, Research and Project Guidance, Faculty Development, E-Learning, Higher Education, Industry Collaboration and Placement.

8. Profile of Dr S N Deepa

S N Deepa is currently an Associate Professor of Electrical Engineering with the National Institute of Technology Calicut, Kozhikode, India. She possesses 17 years of teaching and research experience and has published ten books with national and international publishers, 106 international journal articles, 12 national journal articles, and 53 papers in national and international conferences.

9. Profile of Mr Manikandan P

Mr Manikandan P finished his B.Tech Degree from National Engineering College, Anna University. He was working with JMS automation. Currently he is a Chief technology officer for CodenPlay Robotics which is a software development company on Industry 4.0. He is having 12 years experience on Automation, Software development. His area of interest include Digital twin technology, Robotics and Industry 4.0.

10. Profile of Dr Kumaravel S

S. Kumaravel (Senior Member, IEEE) received the B.E. degree in electrical and electronics engineering (EEE) from Bharathidasan University, Tiruchirappalli, in 2002, the M.Tech. degree in power systems from the National Institute of Technology (NIT) Tiruchirappalli, in 2007, the Ph.D. degree in electrical engineering from NIT Calicut, India, in 2012, and the P.D.F. degree from University College Dublin, Ireland. Since 2008, he has been an Associate Professor with the Department of Electrical Eng

Artificial Intelligence (AI) is playing a major role in the fourth industrial revolution and we are seeing a lot of evolution in various machine learning methodologies. AI techniques are widely used by the practicing engineer to solve a whole range of hitherto intractable problems. Artificial intelligence (AI) has become a significant force worldwide, sparking a transformation and revolutionary developments across many industries. By leveraging various machine learning methodologies (ML), engineers can utilise applications of AI to optimize their design procedures and bolster safety and reliability.

LAPTOP

Coordinator's: Prof. SONAM SHRIVASTAVA 16177 - Assistant Professor Sr. Grade 1 -SELECT Prof. ALBERT ALEXANDER S 19693 - Associate Professor Grade 2 -SELECT