

Department of Electrical and Electronics Engineering IEEE Power Electronics Society NHCE Student Branch Chapter Geo-Code is SBC66131



Title	Faculty Development Programme on "Research Potential in Advanced Power Electronics & Renewable Energy" ent Electrical and Electronics Engineering							
Department								
Date	From: 23.05.2022	To: 31.05.2022						
Time	From: 09:30 AM	To: 04:45 PM						
Brief Description (4-5 Lines Max)	The IEEE PELS NHCE Student Branch & Electronics Engineering, New Horizon Colle Faculty Development Programme on "Resea & Renewable Energy" from 23rd May, 20 05:00 PM in association with National Institu Electronics Society Bangalore Chapter to Sponsored by Ministry of Electronics and FDP is designed to address research advance applications in the industry a professionals'/students/academicians toward Improvement too. This course will offer a u relevant topics in Real Time Power Elect theoretical sessions and simulation plus labo It is due to development of switching device computational methods, DSP/FPGA contro can be found in several areas like Renewal telecommunication, residential energy syster power switching converters are developed if scope for future research. The entire session in the area of power electronics industry. T BITS Pilani and Industry delivered the lectu the 60 participants. Congratulations to Event Professor, Department of EEE, NHCE & II organized this event.	Chapter from Department of Electrical and ege of Engineering, Bengaluru is organized the arch Potential in Advanced Power Electronics 022 – 31st May, 2022, between 09:00 AM to ute of Technology, Warangal and IEEE Power through online mode. This programme is Information Technology (MeitY), GOI. This cements in Power conversion topologies and nd to encourage various zonal ds research and for their Academic Quality nique opportunity to all the participants in the tronic systems and its applications through ratory-based experiments and demonstrations. es, magnetic components, control techniques, llers, etc. Applications of power electronics ble Energy, industry, transportation, medical, ns, electric vehicles etc. Certain low and high in these areas. Also, this FDP aims at giving n is very informative and enthusiastic manner Che eminent experts from the IIT, NIT, VIT, re and his talk has been very well received by t Coordinator Dr. Vinoth Kumar K, Associate EEE PELS NHCE SBC Advisor successfully						





ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON Research Potential in Advanced Power Electronics & Renewable Energy

(23rd May, 2022 - 31st May, 2022)



	Forenoon Session				Afternoon Session			
Date/Day	9.30 – 10:45	10. 45 - 11:00 - 12:15 11: 00		15 - 2:0 0	2:00 - 3:15	3:1 5- 3:3 0	3:30 - 4:45	
23.05.2022 Monday	Inaugural Function BLN / MM		PV based system proson and con (BVP)		Energy management strategies in hybrid electric vehicle (HOB)		Energy management strategies in hybrid electric vehicle (HOB)	
24.05.2022 Tuesday	Hands on Matlab based simulations of Single Stage Power Converters for Smart Mobility (DR)	Power converters for renewable energy Interface (VAAG)			High-Gain Bidirectional Converters for Battery charge/discharge applications (BLN)		High-Gain Bidirectional Converters for Battery charge/discharge applications (BLN)	
25.05.2022 Wednesday	Power Electronic Controllers for wind energy conversion system (SSK)	¥	Industrial Application of Electrical Drive Systems (ASVK)	LUNCH BREAK	Condition Monitoring of Electrical Drives using Signal based techniques (VKK)	BREAK	Bi-directional LED drivers for Solar PV powered Automotive Lighting systems (VVS)	
26.05.2022 Thursday	Super capacitor as an alternate storage unit for EV for fast charging (SMP)	BRE/	Demand Side Management Case Studies (HDM)		Power Electronics Applications in Renewable Energy and Electric Vehicles (PP)		Power Electronics Applications in Renewable Energy and Electric Vehicles (PP)	
27.05.2022 Friday	Advancement in Power Converters for Solar PV fed Energy Storage System (VK)		Advancement in Power Converters for Solar PV fed Energy Storage System (VK)		Computational Intelligence model for renewable energy applications (SND)		Computational Intelligence model for renewable energy applications (SND)	
28.05.2022 Saturday	Wireless charging infrastructure for transportation electrification (RD)		Integration of Renewable energy sources to Grid using modern techniques (JJ)		Impact of renewable energy in distribution system (SM)		Impact of renewable energy in distribution system (SM)	
29.05.2022 Sunday		Holiday Break: No Lectures						
30.05.2022 Monday	Hybrid Energy Storage Systems (KM)		Energy Savings in Industrial Electric drives (ASVK)		Advanced Power Converters Topology for Electric Drives Applications (MV)		Emotional Growth and Mental Stability (VU)	
31.05.2022 Tuesday	Smart Electric Vehicles: Research Challenges and opportunities in battery management and charging system (DK)		Fault Diagnosis of industrial drives using model based techniques (VKK)		Quiz-Test & Feedback (BLNR)		Valedictory (BLNR/MM)	

Resource Persons:

BLN	:	Dr. B L Narasimharaju, NIT Warangal	BVP	:	Dr. B Venkatesa Perumal, NIT Suratkal	HO B	:	Dr. Hari Om Bansal, BITS Pilani
DR	:	Dr. Dogga Raveendhra, GRIET, Hyderabad	VAA G		Mr. Vishal Anand A G, Bloom Energy Bengaluru	VK K	••	Dr. Vinoth Kumar K, NHCE Bengaluru
SSK	:	Dr. S. Senthil Kumar, NIT Tiruchirappalli	ASV K	:	Mr. Arun Shankar V K, Danfoss Chennai	HD M	:	Dr. Hitesh Dutt Mathur, BITS Pilani
ММ	:	Dr. Mahesh M, NHCE Bengaluru	PP		Dr. Prajof P, NIT Suratkal	VK		Dr. V. Karthikeyan, NIT Calicut
SND	:	Dr. S. N. Deepa, NIT Arunachal Pradesh	RD		Dr. Deepak Ronanki, IIT Roorkee	JJ	••	Dr. Jayakumar J, KITS Coimbatore
SM	:	Dr. Suman M, MNNIT, Allahabad	KM		Dr. Kowsalya M, VIT Vellore	VU		Shri. Varun Upadhayay, TAOL
MV	:	Dr. Mariappan Vallikan, Valeo India Pvt Ltd, Chennai	DK	:	Dr. Deepa K, Amrita Vishwa Vidyapeetham, BLR	VV S	:	Dr. V V Satyakar, NIT Andhra Pradesh
SMP	:	Dr. Shreelakshmi M P, NIT Calicut						