New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University (VTU), approved by the All India Council for Technical Education (AICTE) and University Grants Commission (UGC). It is accredited by NAAC with 'A' grade & National Board of Accreditation (NBA). New Horizon college of Engineering is located in the heart of the IT capital of India, Bangalore. The college campus is situated in the IT corridor of Bangalore surrounded by MNCs and IT giants. NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the-art facilities for its students. They are given utmost encouragement in their areas of interest by providing hi-tech facilities backed by faculty support.

ABOUT THE DEPARTMENT OF R&D

The Department of Research and Development has unparalled facilities, proactive initiatives to promote research (both sponsored and academic research) and consultancy. The vibrant R&D culture fosters innovative spirit to kindle the young minds at the campus under the able guidance and mentorship of motivated faculty members at all the departments. The sustained and passionate efforts of R&D at NHCE have carved a niche in India and abroad for NHCE.

ABOUT THE DEPARTMENT OF EEE

The Department of Electrical & Electronics Engineering (EEE) at New Horizon College of Engineering (NHCE), Bangalore. EEE is one of the prestigious branches of Engineering and one among the oldest departments of NHCE-Bangalore started in 2001. The EEE Department has been playing a vital role in producing Engineers and Technologists of high caliber ever since it was established in the year 2001. The Department is accredited by NAAC with 'A' Grade and accredited by NBA. The Department is inclined towards bridging the gap between Industry and academia by collaborating with Multinational Companies in the field of Electrical Engineering, Indo-French Center of Excellence in Electricity, Automation and Energy (IFCEEAE) is one such initiative evolved through "MoU" with French Ministry of National Education and Schneider Electric India Pvt. Ltd.

ORGANISING COMMITTEE

Chief Patrons

Dr. Mohan Manghnani

Chairman New Horizon Educational Institution

Mr. Dhermesh Manghnani

President New Horizon Educational Institution

Patrons

Dr. Manjunatha

Dr. R. J. Anandhi

Dr. Revathi V

Dean - R&D Convenors

Dr. Sujitha S Professor & HoD - EEE

Dr. Vinoth Kumar K Professor - EEE & Associate Head - R&D

Coordinators

Ms. Kavitha Chenna Reddy Senior Assistant Professor - EEE

Ms. Anitha A Senior Assistant Professor - EEE

Ms. Soumya K V Assistant Professor - El

- FFF

Ms. Sangeetha C N Assistant Professor - EEE

Ms. Surat Pyari Atti

Ms. Anitha Nair A S

Ms. Pooja Jose



Department of Research and Development Department of Electrical and Electronics Engineering

Jointly organise

Short Term Training Programme (STTP)

Research Challenges in Advanced Power Converters for Industrial Electronics Applications



Sponsored by









THEME OF THE PROGRAMME

Power Electronics System act as the interface between renewable energy sources and the grid. This STTP addresses the fundamentals of power generation technology from renewable energy sources particularly wind and solar power. The workshop covers the control and management of power electronic converters and energy storage components during interfacing wind and solar sources with the grid. The design of power electronic converters is treated in depth, including conventional and emerging converter topologies to optimize the energy conversion and transmission, to control reactive power, to minimize harmonic distortion, to achieve low cost, to increase efficiency over a wide power range and to have high reliability. It also focuses on power quality issues of renewable energy systems and associated smart energy management principles. It is also aimed at bringing the academia and technocrats on one platform to discuss common interests, existing challenges, concerns and problems that comply with international standards and the possible solutions of grid integration of renewable energy systems. Finally the expected trends in power electronics technology for renewable energy systems will be discussed. The event aims to bring together the experts in the field of Power Electronics & Renewable energy from working professionals and academicians to provide an interactive forum to discuss and exchange their visions, experiences, and solutions for up scaling and mainstreaming renewable energy to achieve sustainable economic growth.



PROGRAMME CONTENT

The programme covers the following important aspects

- Introduction about Power Converters
- Trends in Power Electronics.
- Modelling of Converter to utilize Fuel cell as a Compensator in a Distributed Generation System.
- Applications of Power Electronics Converters in DFIG.
- Design of Autonomous control of micro grid by Power Electronics Converters. Design of Power Converters for Solar Photovoltaic
- Advanced Power Electronics Technologies on Solar
- Photovoltaic and Wind Powe
- Design of Power Converters for Fuel Cell Systems.
- Design of High Gain DC-DC Converters for PV Applications
- Role of Data Mining and Artificial Intelligence in Electrical Engineering

ABOUT THE RESOURCE PERSONS

Faculty members from IIT, NIT, reputed Insitutions and industry will be conducting the theory and practical sessions in the STTP.

WHO CAN ATTEND?

Faculties, Research Scholars, UG and PG students from AICTE approved institutions are eligible to the STTP.

IMPORTANT DATE

Last date for registration: 08.11.2025

COURSE DURATION

Offline sessions for 2 days (2 Hours each session)

REGISTRATION

Classification	Fee	
IEEE Members Category: B.E. / B.Tech Students / PG Students / Research Scholars / Faculty Members / Industry	₹ 600	

The registration fee should be paid only through online mode.



The registration fee is inclusive of GST and cost towards course material, lunch and refreshment.

The participant has to register through the portal given below. https://forms.gle/FwtHscERtzGAvAZB8

SELECTION AND CERTIFICATION CRITERIA

Selection will be based on first-come, first-serve basis. Maximum of 60 participants may be allowed to attend the offline STTP. The selected candidates will be notified on or before 09.11.2025

FOR FURTHER CLARIFICATIONS

Dr. Vinoth Kumar K

Advisor - IEEE IES SBC of NHCE (SBC66131B) Professor - EEE & Associate Head - R&D, Department of R&D. New Horizon College of Engineering, Bengaluru E-mail: dr.vinothkumar@newhorizonindia.edu Mobile : +91 99448 08092





Department of Research and Development

&

Department of Electrical and Electronics Engineering

IEEE Industrial Electronics Society Student Branch Chapter

Geo-Code: SBC66131B







New Horizon College of Engineering, IE	13
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Title	Short Term Training Program (STTP) on "Research Challenges in Advanced Power Converters for Industrial Electronics Applications"								
Department	Department of Research and Development & Electrical and Electronics Engineering								
Date	From: 12.11.2025 To: 13.11.2025								
Time	From: 10:00 AM To: 04:00 PM								
Brief Description	from Department of Electrical and Electr Engineering, Bengaluru is jointly organized "Research Challenges in Advanced Power Co on 12 th – 13 th November 2025, between 10: Industrial Electronics Society Bangalore Chato address research advancements in Power industry and to encourage various zonal research and for their Academic Quality Impopportunity to all the participants in the relevation and its applications through theoretical seexperiments and demonstrations. It is due to components, control techniques, computationally Applications of power electronics can be found industry, transportation, medical, telecommovehicles etc. Certain low and high power swalso, this FDP aims at giving scope for future and enthusiastic manner in the area of power	and IEEE IES NHCE Student Branch Chapter onics Engineering, New Horizon College of the Short Term Training Program (STTP) on onverters for Industrial Electronics Applications" 400 AM to 04:00 PM in association with IEEE pter through offline mode. This FDP is designed a conversion topologies and applications in the professionals'/students/academicians towards provement too. This course will offer a unique ant topics in Real Time Power Electronic systems ressions and simulation plus laboratory-based to development of switching devices, magnetic tional methods, DSP/FPGA controllers, etc. found in several areas like Renewable Energy, munication, residential energy systems, electric witching converters are developed in these areas. The entire session is very informative relectronics industry. The eminent experts from ered the lecture and his talk has been very well abers.							









Images















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Department of Research and Development
NEW HORIZON COLLEGE OF ENGINEEPING
New Horizon Knowledgo Park, Bellandur Main Road,
New Horizon Road, Bellandur Main Road, Bellandur Main Road,
New Horizo



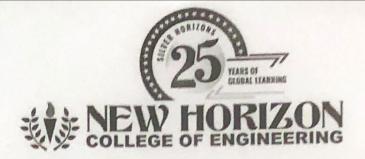
The details of the resource person and schedule are given below:

S. No	Details of the Resource Person	Title of the Presentation	Date & Time	
1	Dr. Vishal Anand A G Chair IEEE IES Bangalore Section Chapter Director of Engineering, Bloom Energy (I) Pvt Ltd, Bengaluru	Session 1: Inauguration and Research Challenges in Advanced Power Converters for Industrial Electronics Applications	12.11.2025 Wednesday (10:00 AM to 12:00 PM) Duration: 120 Minutes	
2	Dr. Shefali Jagwani Vice Chair IEEE IES Bangalore Section Chapter Department of EEE, Nitte Meenakshi Institute of Technology, P.B.No.6429. Yelahanka, Bangalore 560064, Karnataka, India	Session 2: Overview of Industrial Electronics	12.11.2025 Wednesday (02:00 PM to 04:00 PM) Duration: 120 Minutes	
3	Dr. Mohan Das R Associate Professor, Department of EEE, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 3: Practical aspects of load test on lithium-ion battery for EV	12.11.2025 Wednesday (10:00 AM to 12:00 PM) Duration: 120 Minutes	
4	Dr. Sujitha S Professor & HoD, Department of EEE, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 4: Harmonics medication strategies in Industrial Electronics Applications	12.11.2025 Wednesday (02:00 PM to 04:00 PM) Duration: 120 Minutes	
5	Dr. Selvaraj Kesavan Advisor Solution Architect DXC Technology Bengaluru 560100, Karnataka, India	Session 5: Role of Data Mining and Artificial Intelligence in Electrical Engineering	13.11.2025 Thursday (10:00 AM to 12:00 PM) Duration: 120 Minutes	
6	Dr. Sujitha S Professor, Department of EEE, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 6: Electric Vehicle design details of BMS	13.11.2025 Thursday (02:00 PM to 04:00 PM) Duration: 120 Minutes	
7	Dr. Agalya V Professor & Associate Head R&D, Department of R&D, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 7: Advancement in Generative AI for enhanced efficiency in power converters	13.11.2025 Thursday (10:00 AM to 12:00 PM) Duration: 120 Minutes	
8	Dr. Vinoth Kumar K Execom Member - IEEE IES Bangalore Section Chapter, Professor & Associate Head R&D, Department of EEE, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 8: Artificial Intelligence-Based Energy Management and Real-Time Optimization in Electric and Hybrid Electric Vehicles	13.11.2025 Thursday (02:00 PM to 04:00 PM) Duration: 120 Minutes	
9	Dr. Shefali Jagwani Vice Chair IEEE IES Bangalore Section Chapter Associate Professor, Department of EEE, Nitte Meenakshi Institute of Technology, P.B.No.6429. Yelahanka, Bangalore 560064, Karnataka, India	Session 9: Advanced Power Converters Topology for Electric Drives Applications	13.11.2025 Thursday (09:00 AM to 11:00 AM) Duration: 120 Minutes	
10	Dr. Gunapriya B Associate Professor, Department of EEE, New Horizon College of Engineering, Bengaluru 560103, Karnataka, India	Session 10: An Improved Deep Learning-Based Technique for Driver Detection and Driver Assistance in Electric Vehicles with Better Performance	13.11.2025 Thursday (11:15 PM to 12:30 PM) Duration: 75 Minutes	
11	Industrial Visit (Field Visit)	Rajamane & Hedge Services Pvt Ltd, Tumkur.	13.11.2025 Thursday (02:00 PM to 04:00 PM) Duration: 120 Minutes	









Department of Research and Development &

Department of Electrical and Electronics Engineering

IEEE Industrial Electronics Society Student Branch Chapter Geo-Code: SBC66131B







New Horizon College of Engineering, IE13

Short Term Training Program (STTP) on "Research Challenges in Advanced Power Converters for Industrial Electronics Applications"

Participant Attendance Details

S.No	Name of the Participant	IEEE Membership No	12.11.2025 FN	12.11.2025 AN	13.11.2025 FN	13.11.2025 AN
1	AASHISH THOMAS OOMMEN	99976000	ARChare	pashers	prohab	AHELEK
2	YASHASWINI B S	99812148	Mashow an	yashuri	ye steere	Hashern'
3	GOWRI MANOJKUMAR	99899726	Gowngal	howsen	COWNM	Crows M
4	LALITH NARAYAN	99905669	Lacita	Labelle	Lateth	Takith
5	MAHENDRA KUMAR S	99905709	Mallele	Martella	Merlende	Hemb
6	SHATAKSHI PATTANAIK	99899765	Stata Koli	Shata koth	Statakohi	Sharey?
7	MOHAN KUMAR M	100830323	KunarM	tuman M	Kuman M	Kunar M
8	VINAYAKA H S	100808017	Kur	Wee	10-	1/1-
9	JAGAN PANIGRAHI	100808126	Jagan	Jagan	Tagan	Jagan
10	KEERTHI S	100804821	Kenking	Kenthin	Keyth:	Kurthing
11	HEMANTH KUMAR M	100830718	Hamil -	Hen	ilan	lende
12	DEEKSHITHA S	100831315	Doub	Roge	Rent	Don 1
13	A M LIKHITHA	100905533	19kfla	Liberton	Ititha	Likitha
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15	AYONIJA ATRE	100905637	pryoriga		Boyonya	Bryoning
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17	ANCHAL S	100905710	Abeliel	Anothel	thenhil	W. 1 1
18	CHANDRESH M	100371980	1	1	Tad	The same
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20	ANITHA A	93603278	Autre	Alumbe	thenh.	ande

21	SANGEETHA C N	99082346	Somether	Carotten	Caglo	Cath
22	ANITHA NAIR AYYAPPAN SUBHADRA	101056618	1.46.	A H	Anill	Anili
23	SURAT PYARI ATTI	99042351	Atten	The	OliZa	(Day)
24	POOJA JOSE	99190344	4	1	a	A
25	SOUMYA K V	99976148	Some	Compe	Comment	Com
26	VEENA MAHANTESH HUNAGUND	101057776	1	Au	And	Any
27	KARTHIKA MAHALINGAM	101057859	Parks	Keith	Kaetto	Kaeli
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30	SUJITHA S	98251603	Prette	Switter	Cenitter	Servete.
31	ACHINTH H S	99151185	Andrith	Andet	Anth	Anoth
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33	INFANCIA PRAGNA	98126497	Thoya	town	trugu	Fraga
34	BHARATH T	98126443	Porti	Seth	Beiler	Boutel
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36	HARSHIKA	98060082	ahri	Alm	Sem	fund
37	SREERAM G	98120541	Santon	Sackan	Sacker	Sukan
38	SANJAN R	98120576	Same	Agus	Clar	Sel
39	SHASHANK JOSHI	98120673	et 1	and	Alex	land
40	SAGAR KHELGE	99903363	Sage	Sogg	Soger	Sagas
41	KIRAN KUMAR R	99369892	Jan L	And	- au	K
42	DIYA CHANDRASHEKAR	99018793	Togethen	Tipedu	De show	Dogacha
43	SAGARGOUDA PATIL	99957361	Segrat	Sant	Sorrist	Carriet
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52	HARSHITHA S	99369871	Hargheten	Walshiller	Harshele 1	rarshle.
53	AASHISH THOMAS OOMMEN	99976000	Aashi8h	Aashish	Jashish 1	Jashish
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Feedback on Short Term Training Program (STTP) on "Research Challenges in Advanced Power Converters for Industrial Electronics Applications" from 12.11.2025 to 13.11.2025

01			Name of the Co	Are you an IEEE	If an IEEE member,	How was the	How were the	Any	What kind of events would you like us to host in the
SI.No	Timestamp	Name	Name of the college	member?	mention your membership ID	STTP?	instructors for the STTP?	improvements needed?	future?
1	11-13-2025 16:52:44	AASHISH THOMAS OOMMEN	New Horizon College of Engineering	Yes	99976000	4	4	All good	•
2	11-13-2025 16:52:41	YASHASWINI B S	New Horizon College of Engineering	Yes	99812148	5	5	-	-
3	11-13-2025 16:52:45	GOWRI MANOJKUMAR	New Horizon College of Engineering	Yes	99899726	4	4	-	IOT
4	11-13-2025 16:52:46	LALITH NARAYAN	New Horizon College of Engineering	Yes	99905669	5	5	-	-
5	11-13-2025 16:52:47	MAHENDRA KUMAR S	New Horizon College of Engineering	Yes	99905709	5	5	_	-
6		SHATAKSHI PATTANAIK	New Horizon College of Engineering	Yes	99899765	5	5	_	-
7		MOHAN KUMAR M	New Horizon College of Engineering	Yes	100830323	5	5	_	_
8		VINAYAKA H S	New Horizon College of Engineering	Yes	100838323	5	5	_	<u> </u>
9						1	1		-
		JAGAN PANIGRAHI	New Horizon College of Engineering	Yes	100808126			-	-
10		KEERTHI S	New Horizon College of Engineering	Yes	100804821	5	5	-	Workshops and guest talks
11	11-13-2025 16:52:47	HEMANTH KUMAR M	New Horizon College of Engineering	Yes	100830718	5	4	-	Similar kind
12	11-13-2025 16:52:49	DEEKSHITHA S	New Horizon College of Engineering	Yes	100831315	4	4	-	-
13	11-13-2025 16:52:44	A M LIKHITHA	New Horizon College of Engineering	Yes	100905533	5	5		-
14	11-13-2025 16:52:41	C DEERAJ	New Horizon College of Engineering	Yes	100896578	5	5	-	-
15	11-13-2025 16:52:45	AYONIJA ATRE	New Horizon College of Engineering	Yes	100905637	5	5	-	-
16	11-13-2025 16:52:46	GANGAVARAPU SAI SUGEET	New Horizon College of Engineering	Yes	100905660	5	4	-	-
17	11-13-2025 16:52:47	ANCHAL S	New Horizon College of Engineering	Yes	100905710	5	5	-	-
18	11-13-2025 16:52:49	CHANDRESH M	New Horizon College of Engineering	Yes	100371980	4	4	_	Anything related to future technology and learnings about it
19		TUSHYANKAR PADHI	New Horizon College of Engineering	Yes	101406017	5	5		-
20	11-13-2025 16:52:41	ANITHA A	New Horizon College of Engineering	Yes	93603278	4	5	-	_
21						4	5		-
		SANGEETHA C N ANITHA NAIR AYYAPPAN	New Horizon College of Engineering	Yes	99082346			All good	-
22	11-13-2025 16:52:46	SLIBHADRA	New Horizon College of Engineering	Yes	101056618	5	5	-	More innovative sessions
23 24		SURAT PYARI ATTI POOJA JOSE	New Horizon College of Engineering New Horizon College of Engineering	Yes Yes	99042351 99190344	5 5	5 5	-	Informative events
25		SOUMYA K V	New Horizon College of Engineering	Yes	99976148	5	5	-	- Realistic based
26	11-13-2025 16:52:41	VEENA MAHANTESH HUNAGUND	New Horizon College of Engineering	Yes	101057776	4	4	-	-
27	11-13-2025 16:52:45	KARTHIKA MAHALINGAM	New Horizon College of Engineering	Yes	101057859	5	5	-	On power electronics
28	11-13-2025 16:52:46	VINOTH KUMAR K	New Horizon College of Engineering	Yes	92339575	4	4	Everything is good	Upgrading technologies
29		SUJITHA S	New Horizon College of Engineering	Yes	98251603	5	5	It was good	Anything is fine
30		ACHINTH H S	New Horizon College of Engineering	Yes	99151185	5	5	-	-
31 32	11-13-2025 16:52:44 11-13-2025 16:52:41	JAYASOURYA U INFANCIA PRAGNA	New Horizon College of Engineering New Horizon College of Engineering	Yes Yes	99369905 98126497	5 5	5 5	-	-
33		BHARATH T	New Horizon College of Engineering	Yes	98126443	5	5	-	- About future technology
34		AAMNA NAFIZA	New Horizon College of Engineering	Yes	98419136	5	5	-	-
35		HARSHIKA	New Horizon College of Engineering	Yes	98060082	5	5	-	-
36		SREERAM G	New Horizon College of Engineering	Yes	98120541	5	5	-	
37		SANJAN R	New Horizon College of Engineering	Yes	98120576	5	5	-	I want power generation related topic
38		SHASHANK JOSHI	New Horizon College of Engineering	Yes	98120673	5	5	-	-
39		SAGAR KHELGE	New Horizon College of Engineering	Yes	99903363	4	4	All good	-
40		KIRAN KUMAR R	New Horizon College of Engineering	Yes	99369892	5	5	-	Automation
41 42		DIYA CHANDRASHEKAR	New Horizon College of Engineering	Yes	99018793	4	4	-	Ctill more weeks
42		SAGARGOUDA PATIL KUMARGOUDA PATIL	New Horizon College of Engineering New Horizon College of Engineering	Yes Yes	99957361 99957368	3	3	-	Still more workshops Based on industries
40	11-13-2023 10.32.44	KUWAKUUUDA PATIL	I New Horizon College of Engineering	100	3333/306	J		_	Daseu on muusules

44 1	11-13-2025 16:52:41	GAGAN M	New Horizon College of Engineering	Yes	98129122	5	5		-
45 1	11-13-2025 16:52:45	DHANUSH P	New Horizon College of Engineering	Yes	98127466	5	5		-
46 1	11-13-2025 16:52:46	JHANSI PRIYA K N	New Horizon College of Engineering	Yes	99125085	5	5	ı	-
47 1	11-13-2025 16:52:47	JEEVAN M	New Horizon College of Engineering	Yes	99370086	5	5	All good	-
48 1	11-13-2025 16:52:49	ADIYTI SUMAN	New Horizon College of Engineering	Yes	99480421	3	3		
49 1	11-13-2025 16:52:47	KRUTHIKA DC	New Horizon College of Engineering	Yes	99377920	5	5		-
50 1	11-13-2025 16:52:49	AGRATHA N	New Horizon College of Engineering	Yes	99369890	5	5		-
51 1	11-13-2025 16:52:45	HARSHITHA S	New Horizon College of Engineering	Yes	99369871	5	5	-	-
52 1	11-13-2025 16:52:46	AASHISH THOMAS OOMMEN	New Horizon College of Engineering	Yes	99976000	5	5	All good	-
53 1	11-13-2025 16:52:47	SNEHA S A	New Horizon College of Engineering	Yes	98715913	3	3	1	·
54 1	11-13-2025 16:52:49	R K POOJA	New Horizon College of Engineering	Yes	99370355	5	5	ı	-
55 1	11-13-2025 16:52:47	POOJITHA M REDDY	New Horizon College of Engineering	Yes	99370379	5	5	-	-









CERTIFICATE OF PARTICIPATION

This is to certify that

AASHISH THOMAS OOMMEN

has participated in the

Short Term Training Program (STTP) on "Research Challenges in Advanced Power Converters for Industrial Electronics Applications"

jointly organized by the Department of Research and Development & Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru in association with IEEE IES NHCE SBC & IEEE IES Bangalore Section Chapter from 12th -13th November 2025

Dr. Vinoth Kumar K
IEEE IES NHCE SBC Advisor

Dr. Sujitha S HoD EEE Dr. Revathi V Dean R&D Dr. Manjunatha Principal









CERTIFICATE OF PARTICIPATION

This is to certify that

CHANDRESH M

has participated in the

Short Term Training Program (STTP) on "Research Challenges in Advanced Power Converters for Industrial Electronics Applications"

jointly organized by the Department of Research and Development & Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru in association with IEEE IES NHCE SBC & IEEE IES Bangalore Section Chapter from 12th -13th November 2025

Dr. Vinoth Kumar K IEEE IES NHCE SBC Advisor Dr. Sujitha S HoD EEE Dr. Revathi V Dean R&D Dr. Manjunatha Principal