

Schedule: One–Week Faculty Development Programme (FDP)
“Electric Vehicle Powertrain Simulation Using MATLAB And Real-Time Simulator”

February 23-28, 2026

Organized By : Human Resource Development Cell (HRDC), Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India
In Association With : IEEE PELS UP Section Chapter (Geo-Code CH11025), IEEE PELS-SBC (Geo-Code SBC11519), HBTU, Kanpur And
Quarbz Info Systems - Typhoon HIL

Day-Date Time	Monday 23.02.2026	Tuesday 24.02.2026	Wednesday 25.02.2026	Thursday 26.02.2026	Friday 27.02.2026	Saturday 28.02.2026
03:45 PM - 04:00 PM	Inaugural Session	Participants Joining in Online Google Meet				
04:00 PM - 05:30 PM	Bridging Simulation and Deployment: Deep Learning-Enabled Real-Time EV Powertrain Development Using MATLAB/Simulink (SH)	Reduced Device Count Medium Voltage HPFC Converters For Future Transportation (NY)	Motor Control for EV Propulsion System (RKB)	Integrated On-Board Electric Vehicles Battery Chargers With Multifunctional Features (RM)	MATLAB Simulation of Reduced Device Count MLIs For EV (SK)	Introduction of TI C2000 Toolbox Package (SS)
05:30 PM - 05:40 PM	Break					
05:40 PM - 07:10 PM	MATLAB Implementation of Converters. (KKP)	Basics of Real-Time Simulator (EB)	Schematic Editor & HIL Scada (EB)	Hands-on Simulation of Electric Vehicle Charging System on MATLAB (SG)	Hands-on Modelling For Electric Vehicle Signal Processing Based Model (EB)	Demonstration of EV Fast Charger MATLAB Model For V2G & G2V (SS)
						Followed By Valedictory Session
Resource Persons						
SH: Dr. Sukanta Halder IIT, Dhanbad	NY: Dr. Naveen Yalla IIT, BHU	RKB: Dr. Ranjan K. Behera IIT, Patna		RM: Dr. Rakesh Maurya NIT Surat	SK: Dr. Sanjiv Kumar HBTU, Kanpur	
KKP: Dr. Kishore K. Pedapenki Jain Deemed To Be University, Bangalore Karnataka	EB: Er. Era Bajpai Senior Application Engineer Quarbz Info System, Typhoon HIL		SG: Dr. Sourabh Ghosh SR University, Warangal		SS: Er. Shivam Srivastava Application Engineer Quarbz Info System, Typhoon HIL	

FDP Convener : Dr. Sanjiv Kumar, Coordinator HRDC & Professor, EED, HBTU Kanpur
FDP Coordinator : Dr. C. N. Singh, Professor, EED, HBTU Kanpur
FDP Co-Coordinator : Mr. Ashutosh Yadav, Chair, IEEE PELS-SBC, HBTU, Kanpur