




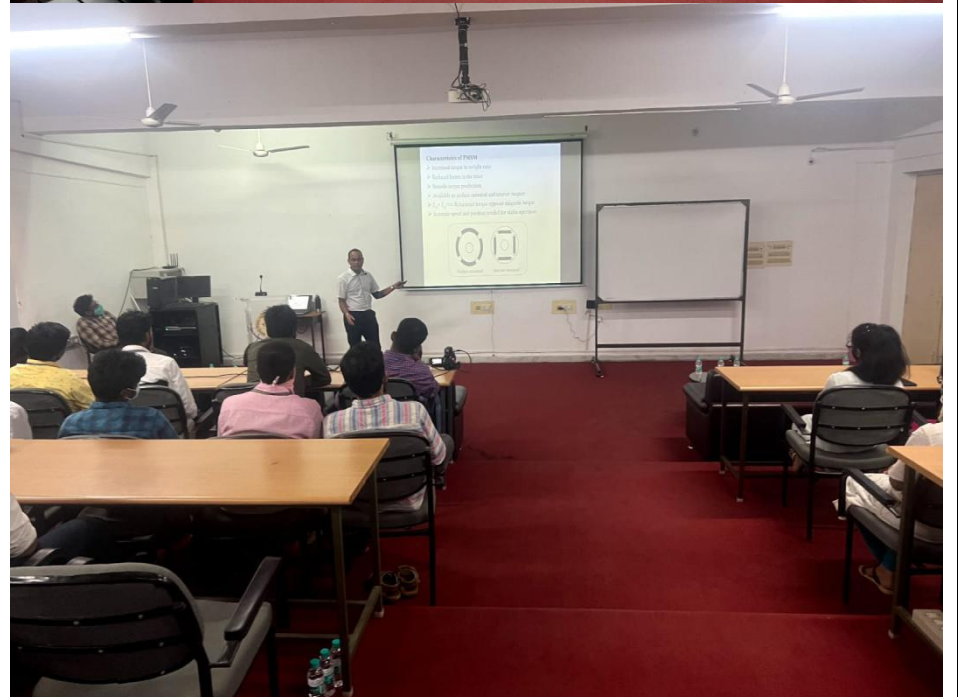
GRIET/2022/IEEE IAS SBC-3

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET		
Department		Professional Body	Institutional Body
		IEEE-IAS SB Chapter IA34 (SBC64761C)	IEEE GRIET SB
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Technical Talks		
Title / Theme of the Event	TECHNICAL TALK ON 'SENSORLESS CONTROL OF ELECTRICAL DRIVES'		
Details of the Coordinators& Designation	Dr. B. Phaneendra Babu IEEE GRIET SB Counsellor Professor and head of department (department of EEE) GRIET, Hyderabad Mrs G Sandya Rani IEEE GRIET IAS SB Chapter Advisor		
Event Dates/Days	From	To	No. of Days
	29 March	29 March	01

	2022	2022			
Details of the Speaker / Guest Organization Address:	Dr. Gopinath G R , Assistant Professor in the Electrical & Electronics Engineering Department at Mahindra				
Participants (Teaching Faculty / Non-Teaching Faculty / Students) Enclose participants list	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	4	123	0	0	127
Faculty Names & Designation	Dr. J. Praveen - Principal Dr. B. Phaneendra Babu, Professor, Head , Dept. of EEE Y. Sathya Vani - Assistant Professor G.Sandhya Rani - Assistant Professor				
Summary of the Event	The event started with the introduction of the Chief Guest Dr. Gopinath G R and address the participants. The session started at 1:35 PM. IEEE IAS SB Chair, Ms. Saniya gave a brief introduction about the present technology used in EV's. Dr. B. Phaneendra Babu sir addressed the event. Dr. Gopinath G R sir started technical talk on sensorless control of electrical drives. Sir started the event by giving an introduction about modeling, control, and sensorless techniques, extended Kalman Filter Observer. Later sir started explaining the characteristics and different types of permanent magnet synchronous motor and their purposes of internal and external mounted PMSM. He explained factors affecting the efficiency. He explained the factors and constants in modeling the PMSM of the stator and rotor. Sir explained inductance in the stationary alpha-beta reference frame, coordinate transformations in power noninvariant, and mechanical modeling. Sir explained the speed control characteristics at different frequencies how torque and power will vary and the efficiency map of the Toyota Prius motor. Sir gave a brief explanation about control strategies for PMSM and vector control of IPMSM in the rotor reference frame, speed control design, estimation technique. Sir answered all the questions which are asked by the				

	students. The event was completed with a vote of thanks by Vyshanavi
IRG (in rupees) Deposited A/C no A/C name and date and other details	NA
Expenditure (in rupees) (Enclose proof-bills)	3690
POs attained with this Event (number and description)	<p><i>1. Broad education necessary to understand latest trends and development in electrical machines.</i></p> <p><i>2. Recognition of the need for, and an ability to engage in life-long learning.</i></p>
Photographs of the event (Hard copy and soft copy)	



	
<p>Proofs:</p> <ol style="list-style-type: none"> 1.Certificates copies 2.Profile of Speaker 3.PPT/Material as applicable. etc., 	

G. Gandykani

Signature of Coordinator

B. Phaneendra Babu

Signature of HOD