



GRIET/2022/IEEE IAS SBC-3

## EVENT SUMMARY REPORT

<b>GRIET/Other institutes/Organization</b>			
<b>Address:</b>	<b>GRIET</b>		
<b>Department</b>		<b>Professional Body</b>	<b>Institutional Body</b>
		<b>IEEE-IAS SB Chapter</b> IA34 (SBC64761C)	<b>IEEE GRIET SB</b>
<b>Nature of the Event</b> (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	<b>Technical Talks</b>		
<b>Title / Theme of the Event</b>	<b>TECHNICAL TALK ON 'SENSORLESS CONTROL OF ELECTRICAL DRIVES'</b>		
<b>Details of the Coordinators &amp; Designation</b>	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		
<b>Event Dates/Days</b>	From	To	No. of Days
	29 March	29 March	01

	2022	2022			
<b>Details of the Speaker / Guest</b> Organization Address:	Dr. Gopinath G R, Assistant Professor in the Electrical & Electronics Engineering Department at Mahindra				
<b>Participants</b> (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
<b>Enclose participants list</b>	4	123	0	0	127
<b>Faculty Names &amp; Designation</b>	Dr. J. Praveen - Principal Dr. B. Phaneendra Babu, Professor, Head , Dept. of EEE Y. Sathya Vani - Assistant Professor G.Sandhya Rani - Assistant Professor				
<b>Summary of the Event</b>	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 end external mounted PMSM. He explained factors effecting 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
<b>IRG (in rupees)</b>  <b>Deposited A/C no A/C name and date and other details</b>	NA
<b>Expenditure (in rupees)</b> <b>(Enclose proof-bills)</b>	3690
<b>POs attained with this Event</b>  (number and description)	<ol style="list-style-type: none"> <li>1. <i>Broad education necessary to understand latest trends and development in electrical machines.</i></li> <li>2. <i>Recognition of the need for, and an ability to engage in life-long learning.</i></li> </ol>
<b>Photographs of the event</b>  (Hard copy and soft copy)	





**Proofs:**

- 1. Certificates copies**
- 2. Profile of Speaker**
- 3. PPT/Material as applicable. etc.,**

**Signature of Coordinator**

**Signature of HOD**