



Department of Electronics & Telecommunication Engineering
K. K. Wagh Institute of Engineering Education and Research
Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati, Nashik-422003

Industrial Visit Report

Academic Year: 2018-19

Name of the industry visited	IRIEEN, Nashik
Address and contact details of industry visited	Indian Railways Institute of Electrical Engineering, (IRIEEN) Post Box 233, Nasik Road - 422 101, Maharashtra (India)
Date of industrial visit	15/09/2018
Name of the course for which industrial visit is organized	Power Electronics and Application
Name of the visit coordinator	Mr.Kiran S.Navale
Name of the visit instructor	Mr. S.S.Pawar
Outcome of the industrial visit	Students will be able to understand processes involved in industry (outcome is mapped to CO1, CO2 and CO3)

Learning Objectives:

After successful completion of this visit students will learn the following points

1. Working of railway traction system
2. Role of Power Electronics converters in railway traction system

About Industry visited:

The Institute was set up in the year 1988 at Nasik Road, Maharashtra, for imparting training to Electrical Engineers of Indian Railways and other departments involved in train-operation. It is located at Nasik Road, about 188 Kms Northeast of Mumbai. The Institute is headed by the Director. He is assisted by a team of Nine faculty members, who are having practical experience as well as technical qualifications.

As laid down by the Railway Board, the Institute imparts training as a statutory measure to:

1. IRSEE Probationers.
2. Integrated orientation course for Group-B Officers in all aspects of the working of Electrical Department before their absorption in Group-A services.
3. Senior Professional Development Course for Junior Administrative Grade officers prior to there being considered for promotion to Selection Grade.

In addition the above, short term special courses are also being conducted throughout the year on specialized subjects with the latest technical know-how and as requests received from zonal railways.



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With the commitments ranging across many facets of electrical engineering applications, IRIEEN is becoming increasingly aware of its role in training officers in state of art technology. Courses covering most aspects of railway electrical engineering from basic to advanced levels are held throughout the year. IRIEEN is flexibly responding to rapid changes of today and preparing engineers for a new era.

For achieving the above objectives IRIEEN has developed world class infrastructure.

Sr. No.	Department/ Section	Things learnt
1	Electronics lab	Different power electronics converters and firing circuits for power converters
2	HVAC lab	Working principle of HVAC system in railway system
3	Breaking of AC drive	Regenerative breaking in AC drive system
4	Railway Control unit	Driver control unit, 3 phase Vector controlled induction motor drive

In all the experience was good and all students learnt much about the Railway traction system and its .

Photos of Industrial visit:





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Industrial visit coordinator
Mr. Kiran S.Navale