

# Electrical Engineering



## **Electrical Engineering at a Glance..!!**

**Electrical Engineering** is one of the core fields of engineering, so it is always evergreen in terms of Scope and Job Prospects. It deals with Generation, Transmission and Distribution of electrical power, application and control of electrical machines like; motors, transformers, switchgears, generators etc., multi-disciplinary aspects like Industrial Process Control & Automation, Instrumentation, Power-Electronics and so on.

## **Electrical Engineering as a subject:**

Electrical Engineering is the heart of whole engineering discipline and therefore its scope will never fade even many years from now. Nowadays, we see Electronics playing an important role in the implementation and control of Electrical Machines. Keeping this fact in mind the course has transformed from core electrical Engineering into a Fusion of Electronics and Electrical and has been renamed as Electronics and Electrical engineering or simply EEE.

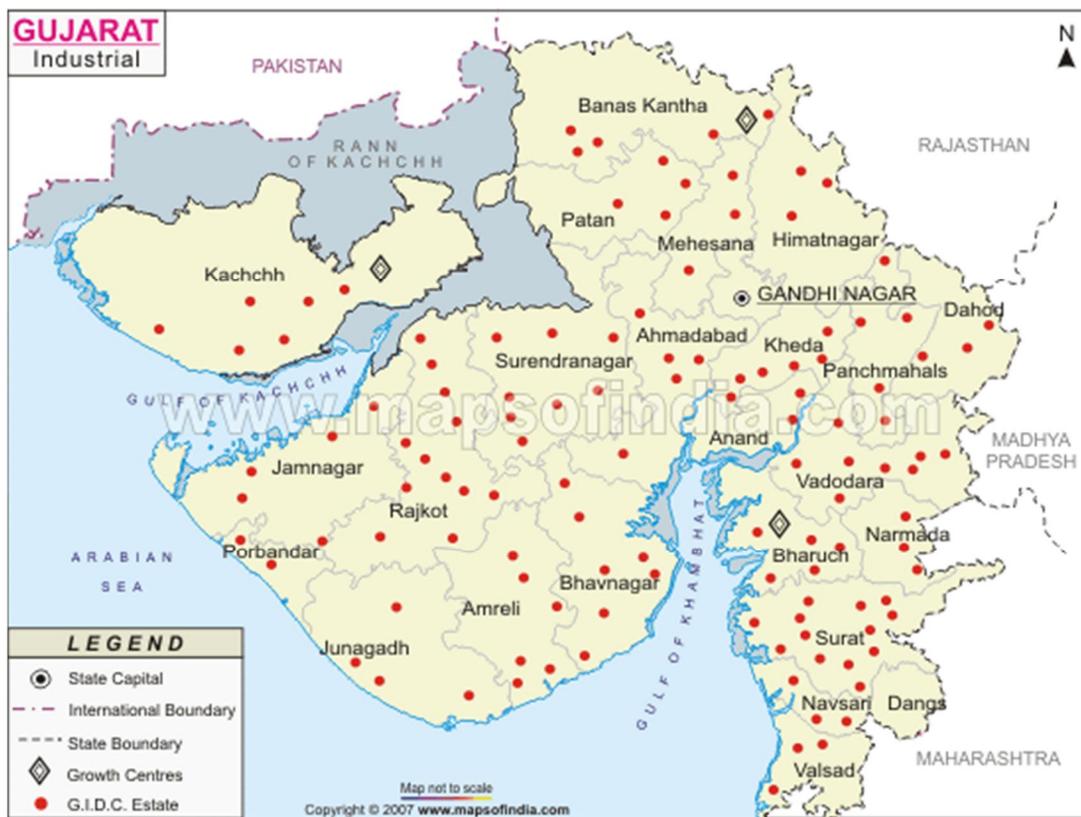
## **What Will You Learn ...**

Electricity has become the basic need for survival, globally. From household to industrial plants, communication and satellite navigation system, electronic equipment, computers etc., all require electricity.

Electrical engineering thus deals with study and application of electrical systems for use in these different environments. It equips you with the knowledge of transmission and generation of electrical power, electrical circuit design, electronics, instrumentation, control system, understanding electrical and electronic networks etc.

The course also covers the study of electronic devices and circuits involved in measurement, instrumentation, control and protection of electrical equipment and conversion systems. Concept of computer and recent applications of computer based systems in design, analysis and efficient operation of power system, maintaining quality and security, also included in the course.

## Demand of Electrical Engineering in Gujarat



Gujarat, a state having a huge base of small, medium and large scale industries that requires a pool of skilled electrical engineer to cater their electrical needs. It can be observed from the industrial map of Gujarat below that includes GIDC estates, newly growing industrial areas, already established industries; The Demand of skilled electrical engineer graduates is huge and growing continually.

## Where are the Opportunities?

There are equally good opportunities for jobs in electrical engineering industry and higher education. There is lot of multidisciplinary research for developing electric vehicles with great funding and scope all over there world. On the same time good opportunities back home in industry.

## Chances of Job in Foreign Countries

Working as electrical engineer opens you lots of opportunities in other countries. Laws of math, electricity and physics are universal and your gained knowledge doesn't limit you to only the country you studied in. There are a lot of international companies that need electrical engineers, also most of them are willing to employ people from other countries, and most of them operate on international level that offers you additional options of traveling while working. Besides, you are usually getting payed well for it!

## What is the salary package?

Average ₹4.0 to 4.5 lakh per annum (average but not limited to)

## TOTAL INTAKE OF ELECTRICAL ENGINEERING IN GUJARAT

Sr.No	Institute	Intake
1	GIDC Degree Engineering college, Navsari	60
2	ADIT, Vallabh Vidhyanagar	60
3	Ahmedabad Institute, Ahmedabad	60
4	Alpha, Gandhinagar	120
5	Amiraj, Ahmedabad	60
6	Arrdekta, Khedbrahma	120
7	Arun Munchhala, Dhari, Amreli	60
8	Atmiya, Rajkot	120
9	B.H.Gardi, Rajkot	60
10	Babaria, Vadodara	120
11	Balaji, Junagadh	60
12	BVM GIA, Vallabh Vidhyanagar	60
13	C.K.Pithawala, Surat	60
14	Charotar Institute, Chanaga	120
15	Darshan, Rajkot	120
16	Engineering College, Godhra	120
17	FETR, Bardoli	120
18	GCET, Vallabh Vidhyanagar	59
19	GEC, Bharuch	120

20	GEC, Bhuj	120
21	GEC, Dahod	120
22	GEC, Godhra	60
23	GEC, Modasa	120
24	GEC, Palanpur	60
25	GEC, Patan	60
26	GEC, Surat	60
27	GEC, Valsad	60
28	GIT, Gandhinagar	60
29	GITS, Prantij	120
30	GPERI, Mehsana	60
31	Grow More, Himmatnagar	120
32	Hansaba, Sidhpur	60
33	Hasmukh Goswami, Ahmedabad	120
34	HJD, Kera	120
35	IITRAM, Ahmedabad	44
36	Indus, Kalol	60
37	ITMUTC, Waghodia	120
38	J.M.Sabva, Botad	120
39	Jivraj Mehta, Anand	60
40	K.J, Vadodara	120
41	Kankesvaridevi, Jamnagar	60
42	KIT, Kalol	120
43	L.D, Ahmedabad	120
44	L.E, Morbi	120
45	Labhubhai Trivedi, Rajkot	60
46	Laxmi, Valsad	60
47	LCIT, Visnagar	60
48	LDRP, Gandhinagar	60
49	Leads, Bharuch	120
50	Mahavir Swami, Surat	60
51	Marwadi, FOE, Rajkot	120
52	Marwadi, FOT, Rajkot	120
53	Merchant, Visnagar	180
54	MG Institute, Navasari	120
55	MSU, Vadodara	60
56	Narnarayan Shastri, Daskroi	60
57	Neotech, Vadodara	60
58	Nirma, Ahmedabad	120
59	Noble, Junagadh	60
60	OM, Junagadh	120
61	OM, Panchmahal	60
62	Pacific, Surat	120
63	Pandit Nathulal, Surendranagar	120
64	Parul New, Waghodia	120
65	Parul Old, Waghodia	120
66	PDPU, Gandhinagar	120
67	R.K, Rajkot	120
68	Rai University, Dholka	60
69	Sadvidhyamandal, Bharuch	60

70	Saffrony, Mehsana	60
71	SAL Institute, Ahmedabad	60
72	Samarth, Himatnagar	120
73	Sanjaybhai Rajguru, Rajkot	120
74	Sankalchand, Visnagar	120
75	Sarvjanik, Surat	60
76	Satsangi, Mehsana	60
77	Shankarsingh Vaghela, Gandhinagar	120
78	Shantilal Shah, Bhavnagar	60
79	Shree Saraswati, Kadi	120
80	Shri Swami Atmanand, Surat	30
81	Shroff Rotary, Valia	60
82	Sigma, Waghodia	60
83	Subhash, Junagadh	120
84	SVIT, Vasad	120
85	Swaminarayan, Kalol	60
86	Takshashila, Rajkot	180
87	Tatva, Modasa	60
88	Universal, Kalol	120
89	UVPEC, Mehsana	60
90	V.V.P, Rajkot	60
91	Vadodara Institute, Waghodia	120
92	Veerayatan, Mandvi	60
93	Venus, Gandhinagar	120
94	VGEC, Ahmedabad	120
95	Vidhyabharti, Bardoli	120
96	Vidhyadeep, Olpad	120
97	VIT, Valia	120
	<b>TOTAL INTAKE IN ACADEMIC YEAR 2013-'14</b>	<b>8893</b>

# **Electrical Engineering Facilities Available in India.**

1. Accenture India Private Limited
2. Adani Group
3. Aditya Birla [Birla Cellulosic]
4. Amtech Electronics (India) Limited
5. Aqua Gel Chemical Private Limited
6. Argusoft India Limited
7. Asea Brown Boveri Limited [ABB]
8. Asia Motors Private Limited
9. ATUL Limited
10. Bayer India Limited
11. BGR Energy Systems Limited, Chennai
12. Bhagwati Associates Pvt. Limited
13. Cadila Healthcare Limited
14. Capgemini India Co. Private Limited
15. Caterpillar India Pvt. Ltd.
16. Cinemeta Entertainment (India) Private Limited
17. CMC Limited
18. Cognizant Technology Solutions India Private Limited
19. Crompton Greaves Limited
20. CSSI [Computer Solutions & Software International]
21. Cybage Software Private Limited
22. Cyberverx Software Solutions Private Limited
23. Deloitte Consulting India Private Limited
24. Denag Cranes & Components India (P) Ltd.
25. DLF Limited
26. Dolcera ITES Pvt. Ltd.
27. DOLPHIN Steel Construction LLC
28. Doshi ION Exchange & Chemical Industries Limited
29. Dresser Rand India Private Limited
30. eClinical Works
31. Eicher Motors Limited
32. E-Infochips Limited
33. Elitecore Technologies Limited

34. EMCO Limited
35. Emerson Process Management ( I ) Private Limited
36. Entity Solutions Limited
37. Erhardt + Leimer (India) Limited
38. Erricson India Private Limited
39. Essar Limited
40. ETA Engineering Private Limited
41. Evolutionary Systems Pvt. Ltd.
42. FAG Bearings India Limited
43. Feast Software Private Limited
44. Fiserv
45. FLD Smith Limited
46. Freescale Semiconductors Limited
47. Future First Info Services Private Limited
48. Galaxy Group
49. Gammon India Limited
50. Gannon Drunkenly & Co. Limited
51. Gateway Technolabs Private Limited
52. GEA Process Engineering (India) Limited
53. Geometrics Global
54. GHCL Limited
55. GIFT [Gujarat International Finanace Tech City Co. Ltd.]
56. GMMCO Limited
57. GNFC [Gujarat Narmada Fertilizer Valley Corporation]
58. Godrej & Boyce Mfg. Co. Limited
59. GSFC [Gujarat State Fertilizers Corporation]
60. Gujarat State Petronet Limited
61. Hewlett Packard India Sales Private Limited
62. Hindustan Construction Company Limited
63. Hindustan Uniliver Limited
64. Hirel Electronics Private Limited
65. Hitachi Home & Life Solutions (India) Limited
66. IBM India (P) Limited
67. ICICI Bank Limited

68. IFB India Private Limited
69. I-Flex India Private Limited
70. I-many Software Private Limited
71. Impetus InfoTech (India) Private Limited
72. Indian Oil Corporation Limited
73. Indian Rayon and Industries Limited
74. Indusa Infotech Pvt Limited
75. InfoStretch Solutions Pvt Ltd
76. Infosys Technologies Limited
77. Ingersoll Rand
78. Intel India Pvt. Limited
79. Jacobs Engineering Private Limited
80. JK Laxmi Cement
81. JMC Projects India Limited
82. Jubilant Organosys Limited
83. Jyoti Limited
84. KABRA Extrusion Technik Limited
85. KAEFER Punj Llyod Limited
86. Kalpataru Power Transmission Limited
87. KEC International Limited
88. Kothari Infotech Limited
89. Linde Engineering Pvt. Ltd.
90. Maharshi Electronics Private Limited
91. Mahindra & Mahindra Limited
92. Mahindra Gears & Transmissions Pvt. Ltd.
93. Mechartes Researchers Pvt. Ltd.
94. Microsoft India Private Limited
95. Misys International Financial Services Private Limited
96. Modiarc Electrodes Co. Limited
97. Mother Dairy India Limited
98. Motorola India Private Limited
99. National Instruments Systems (India) Private Limited
100. Neilsoft Limited
101. NIELSEN
102. Nirma Limited
103. NK Shah Consulting Eng.
104. Nokia Siemens Limited
105. nVidia Graphics Pvt. Limited

106. Oracle India Private Limited
107. Pacific Pipe Systems Private Limited
108. Pankaj Patel Associates
109. Patni Computer System Limited
110. Philips Limited
111. PMI
112. Prima Automation India Private Limited
113. Real Soft (Intl) Private Limited
114. Reliance Industries Limited
115. Reliance Infocomm Limited
116. RFID-Radio Frequency Identification
117. Sabarmati Gas Limited
118. SABIC Innovative Plastics India Pvt. Ltd.
119. Samyak InfoTech Private Limited
120. Sasken Communication Technologies Limited
121. Satyam Computer Services Limited
122. Schneider Electric India Private Limited
123. Secure Meters Limited
124. Shapoorji Pallonji & Co. Limited
125. Sheladia Associates
126. Shriram Alkali & Chemicals
127. SHV Energy Private Limited
128. Siemens Limited
129. Solu-Soft India Private Limited
130. ST Microelectronics Private Limited
131. Synopsys (India) Private Limited
132. Syntel Limited
133. Tata Autocomp Limited
134. Tata Chemicals Limited
135. Tata Consultancy Engineers Private Limited
136. Tata Consultancy Services Limited
137. Tata ELXSI Limited
138. Tata Motors Limited
139. Tata Power Company Limited
140. Tata Teleservices Limited
141. Teach for India
142. Tech Mahindra Limited
143. Thermax Limited

144. Thorogood Associates
145. Torrent Pharmaceuticals Limited
146. Torrent Power [AEC] Limited
147. Transpek Industries Limited
148. TVS Motor Company
149. Ultratech Cement Limited
150. Unigraphics Software
151. Unikaihatsu Software Private Limited
152. UPL Environmental Engineers Limited
153. UST Global
154. Vardhman Acrylics Limited
155. Vavni Services Private Limited
156. VC-ERP Consulting Private Limited
157. Vedanta Resources
158. Veeral Controls Private Limited
159. Viraj Profile Limited
160. Vodafone India Private Limited
161. Wellspun India Limited
162. Wipro Limited
163. Zensar Technologies Limited
164. Zeus Systems Private Limited