

**SHRI GURU GOBIND SINGHJI INSTITUTE OF ENGINEERING &  
TECHNOLOGY, VISHNUPURI, NANDED**

**Department of Electrical Engineering**

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SWAYAM / NPTEL COURSES EQUIVALENT TO SECOND YEAR ELECTRICAL ENGINEERING

<b>Course Coordinator : Ajaysingh T. Chandan</b>			
<b>SEMESTER – III</b>			
<b>Course Code</b>	<b>Name of the Institute Course</b>	<b>Equivalent NPTEL Course</b>	<b>Date of Registration and Link</b>
BSC 272	Mathematics – III (Numerical Methods and Partial Differential Equations)	Transform calculus and its applications in differential equation	Course is available for lectures but not for registration. Content matches with the course. <a href="https://www.nptel.ac.in">https://www.nptel.ac.in</a>
PCC-EE201	Analog Electronic Circuits	Analog Electronics Circuit By Prof. Shouribrata Chatterjee IIT Delhi	Till 27 <sup>th</sup> July 2020 <a href="https://www.nptel.ac.in/courses/108/102/108102112/">https://www.nptel.ac.in/courses/108/102/108102112/</a>
PCC-EE202	Electrical Machines-I	Electrical Machines-I By Prof. Tapas Kumar Bhattacharya IIT Kharagpur	Till 27 <sup>th</sup> July 2020
PCC-EE203	Circuit Theory	Circuit Theory By Prof. S.C. Dutta Roy IIT Delhi	Course is available for lectures but not for registration. Available on <a href="http://www.nptel.ac.in">www.nptel.ac.in</a>
PCC-EE204	Electromagnetic Fields	Electromagnetic Fields By Prof. Harishankar Ramchandran IIT Madras	Course is available for lectures but not for registration. Available on <a href="http://www.nptel.ac.in">www.nptel.ac.in</a>
<b>SEMESTER - IV</b>			
<b>Course Code</b>	<b>Name of the Course</b>	<b>Equivalent NPTEL Course</b>	<b>Date of Registration</b>
BSC 275	Mathematics – IV	NA	NA
PCC-EE206	Electrical Machines-II	Electrical Machines-II By Prof. Tapas Kumar Bhattacharya IIT Kharagpur	Course is available for lectures but not for registration. Available on <a href="http://www.nptel.ac.in">www.nptel.ac.in</a>
PCC-EE207	Digital Electronics and Logic Design	Digital Circuits By Prof. Santanu Chattopadhyay IIT Kharagpur	Till 27 <sup>th</sup> July 2020 <a href="https://www.nptel.ac.in/courses/108/105/108105113/">https://www.nptel.ac.in/courses/108/105/108105113/</a>
PCC-EE208	Electrical and Electronics Measurements	Electrical Measurement and Electronic Instruments by Prof. Avishek Chatterjee, IIT Kharagpur	Course is not available for registration but an online lecture series is available. Available on <a href="http://www.nptel.ac.in">www.nptel.ac.in</a>
PCC-EE209	Signals and System	Signals and Systems By Prof. Kushal K. Shah IISER Bhopal	Course is not available for registration but an online lecture series is available. Available on <a href="http://www.nptel.ac.in">www.nptel.ac.in</a>

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**SWAYAM / NPTEL COURSES EQUIVALENT TO THIRD YEAR ELECTRICAL ENGINEERING**

<b>Course Coordinator : Manoj K. Patil</b>			
<b>Sr. No.</b>	<b>Institute Course</b>		<b>Details of course from SWAYAM/NPTEL</b>
<b>SEMESTER-V</b>			
1.	PCC-EE301	Power System Engineering	Power System Analysis Prof. Debapriya Das, IIT Kharagpur
			Power System Engineering Prof. Debapriya Das, IIT Kharagpur
2.	PCC-EE302	Feedback Control System	Control System, Dr. Shankar Raman, IIT Madras
			Control Engineering, Prof. R. Pasumarthy, IIT Madras
3.	PCC-EE303	Microprocessor and Microcontroller	Microprocessor and Microcontroller Prof. Santanu Chattopadhyay, IIT Kharagpur
4.	PCC-EE304	Digital Signal Processing	Discrete-Time Signal Processing Prof. Mrityunjay Chakraborty, IIT Kharagpur
5.	PEC-EE305A	Elective-II : Basic of Photovoltaic (PV) System	Design of photovoltaic systems Prof. L Umanand, IISc Bangalore
6.	PEC-EE305B	Elective-II : Renewable Energy Technologies	
7.	PEC-EE305C	Elective-II : Electrical Installation and Design	
<b>SEMESTER-VI</b>			
1.	PCC-EE307	Power System Analysis and Stability	Power System Analysis Prof. Debapriya Das, IIT Kharagpur
			Power System Engineering Prof. Debapriya Das, IIT Kharagpur
2.	PCC-EE308	Control System Design	Control System, Dr. Shankar Raman, IIT Madras
			Control Engineering, Prof. R. Pasumarthy, IIT Madras
3.	PCC-EE309	Power Electronics	Power Electronics Prof. G. Bhuvaneshwari, IIT Delhi
4.	PCC-EE310	Power Plant Engineering	Steam Power Engineering Prof. Vinayak N Kulkarni, IIT Guwahati
5.	PEC-EE311A	Elective-III : – Energy Audit and Conservation	
6.	PEC-EE311B	Elective-III :Electrical Machine Analysis	
7.	PEC-EE311C	Elective-III : Utilization of Energy and Management	

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**SEMESTER-VII**

<b>Course Coordinator : Chetan W. Jadhao</b>				
Sr.No.	Subject Code & Name	Equivalent NPTEL Course	Duration	Exam Date
1	EE401 Industrial Drives and Control	No course found	-	-
2	EE403 Switchgear and Protection	Power System Protection & Switchgear	8 weeks (20 July 2020 - 11 Sep. 2020)	27 Sep 2020
3	EE405 Electrical Machine Design	No course found	-	-
4	EE407 Industrial Economics and Management	No course found	-	-
5	<b>Elective-IV</b> : EE409A High Voltage Engineering	No course found	-	-
6	<b>Elective-IV</b> : EE409B PLC and SCADA	No course found	-	-
7	<b>Elective-IV</b> : EE409 C Artificial Neural Networks and Deep Learning	No course found	-	-

**SEMESTER-VIII**

Sr.No.	Subject Code & Name	Equivalent NPTEL Course	Duration	Exam Date
1	<b>Elective-V</b> : EE402A HVDC and FACTS	No course found	-	-
2	<b>Elective-V</b> : EE402B Power System Restructuring and Deregulation	No course found	-	-
3	<b>Elective-V</b> : EE402C Smart Electric Grid	Introduction to Smart Grid	8 weeks (20 July 2020 - 11 Sep. 2020)	27 Sep. 2020
4	<b>Elective-VI</b> : EE404A Power Quality and Harmonics	No course found	-	-
5	<b>Elective-VI</b> : EE404B Embedded System Design	Introduction to Embedded System Design	12 weeks (20 July 2020 – 09 Oct. 2020)	18 Oct. 2020

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6	<b>Elective-VI</b> : EE404C Advanced Control System	No course found	-	-
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Head

Department of Electrical Engineering