

**ANKITA RUNANI**  
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**ERE DEPARTMENT**  
**BABA GULAM SHAH BADSHAH UNIVERSITY**  
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<b>M.Tech</b>	<b>POWER SYSTEM ENGINEERING</b> % age:69.72  <b>Guru Nanak Dev Engineering College, Ludhiana, Punjab (2012-2014)</b>
<b>B.Tech</b>	<b>ELECTRICAL ENGINEERING.</b> % age : 69.78  <b>Guru Nanak Dev Engineering College, Ludhiana, Punjab (2008-2012)</b>  • Studied :MATLAB, Language C++.
<b>School</b>	<b>Class XII-</b> K.V Sunjuwan, Jammu, J&k (C.B.S.E,2006-2007)( <b>75.00%</b> ) <b>Class X–</b> K.C Public School, Jammu, J&k (C.B.S.E,2004-2005)    ( <b>72.00%</b> )
<b>INTERNSHIP</b> 06 MONTHS	
<i>Dec 2011- May 2012</i>	<b>Guru Hargobind Thermal Plant, LehraMohabbat, Bathinda</b> Project InternMay
<b>Professional Exposure</b>	• Teaching Assistant at Guru Nanak Dev Engineering College, Ludhiana.      2 year • Protection cell at 220 KV Substation Lalton , Ludhiana.1 week
<b>PROJECT I</b>	
<b>Overview</b>	• Automatic Opening and Closing of Railway Crossing
<b>Methodology</b>	• To install magnetic transducers at distance of 1 km from Railway Crossing on both sides at suitable distances of railway crossing • Installation of timer at opening and closing of railway crossing • Installation of Stop light in coordination with transducer signals.
<b>PROJECT II</b>	
<b>Overview</b>	• Simulating Implementation of speed stabilization of <b>DC Motor</b> using <b>PID controller</b>
<b>Methodology</b>	• Selection of Step Input. • Selection of PID Controller. • Setting parameters of PID Controller. • Selection of IMD Controller. • Selection of Scope.
<b>Learning</b>	• Damping out oscillations and stabilizing speed of DC Motors.

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THESIS	
<b>Overview</b>	<ul style="list-style-type: none"> <li>• A study of coordinated TCSC and PSS damping controller in a Multi-machine system using PSO to improve power system stability.</li> </ul>
<b>Methodology</b>	<ul style="list-style-type: none"> <li>• Study of different types of Power System Stability and Dynamics of Synchronous Machines.</li> <li>• Mathematical modeling and investigation of the structure with PSS and TCSC using MATLAB.</li> <li>• Use of PSO technique to optimize the controller parameters and to minimize the interactions among them to improve stability and damp out oscillations.</li> <li>• Comparison of results of the multi machine system with using PSS and TCSC and without using PSS and TCSC.</li> </ul>

### PROFESSIONAL TRAINING

<i>May 2010 – July 2010</i>	<b>220 KV Substation Gladni, Jammu</b> Trainee
<i>December 2011 – May 2012</i>	<b>Guru Hargobind Thermal Plant, LehraMohabbat, Bathinda</b> Trainee

- Got knowledge of Transmission Lines, Distribution Lines.
- Got knowledge of Power Transformer, Circuit Breakers, Potential Transformer, Current Transformers, Lightning Arresters, Relays, Capacitor Bank, Isolators.
- Got knowledge of Turbines, Generators, Boilers, Feed Pumps and Different types of AC and DC motors.

### POSITION OF RESPONSIBILITY

<b>Leadership</b>	<ul style="list-style-type: none"> <li>• Appointed as representative of 7 member team at <b>Guru Hargobind Thermal Plant</b> in training program.</li> </ul>
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### AWARDS AND ACHIEVEMENTS

- Qualified **GATE 2012**.
- Got scholarship for Two years from **AICTE**.
- Member of **SAIE** in 2010.
- Published **Review Paper** on **Differential Protection of Power Transformer using different Mother Wavelets and**

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Neural Networkin 2014.

- Published **Research Paper** on **A study of coordinated TCSC and PSS damping controller in a Multi-machine system using PSO to improve power system stability** in International Journal of Engineering Research & Technology (**IJERT**) in 2014 .