

CHAPTER 59  
TECHNOLOGY  
MECHANICAL ENGINEERING

Doctoral Theses

689. DEV (Nikhil)  
**Some Studies on Performance Improvements of Combined Cycle Power Plants.**  
Supervisors : Dr. Samsher and Dr. S.S. Kachhwaha  
Th 21293

*Contents*

1. Introduction 2. Literature review 3. Methodology for graph theoretic and exergetic analysis 4. Results and discussion 5. Conclusions and scope for future work. References.

690. RANBIR SINGH  
**Studies on performance and Emission Characteristics of Direct Injection Compression Ignition Engine Dual Fuelled with Diesel and Compressed Natural Gas.**  
Supervisor : Dr. S. Maji  
Th 21250

*Contents*

1. Introduction 2. Review of related literature 3. Literature survey conclusions, formulation and statement of the problem 4. Design and development of experimental test facilities 5. Experimental measurements and observations 6. Mathematical modeling and simulation of CNG-diesel dual fuel thermodynamic cycle 7. Results, discussion and analysis 8. Conclusions. References and Appendices.