REFERENCES

- 1. Edward G. Nawy, "Prestressed Concrete A Fundamental Approach", 1st Edition, Prentice Hall, 2002.
- 2. Rajagopalan. N, "Prestressed Concrete", 2nd Edition, Narosa publications, 2006.

20GVPCE(A)M.Tech. Structural Engineering2014POWER PLANT DESIGN
(Elective – I)

Course Code: 13CE 2108

Course Outcomes:

At the end of the course the student will be able to

- CO1: Outline the basic knowledge of on different power plant layouts and design of chimneys.
- CO2: Describe different types of cooling towers.
- CO3: Demonstrate knowledge of design and analysis of foundations.
- CO4: Assess the knowledge about intake towers.
- CO5: Explain the knowledge about storage structures.

UNIT – I

Power Plants: Planning and Layout of different types of power plants.

Chimneys: Analysis and Design of Chimneys. IS codal provisions.

UNIT – II

Cooling Towers: Induced draught and natural draught cooling towers.

UNIT – III

Foundation: Machine foundations & Turbo generator foundations.

$\mathbf{UNIT} - \mathbf{IV}$

Intake Towers: Dams, wells and Intake galleries

$\mathbf{UNIT} - \mathbf{V}$

Storage Structures: Analysis and Design of ware house structures.

L P C 4 0 3

TEXT BOOKS:

- 1. Vijay K. Puri and Shamsher Prakash, "Foundations for Machines: Analysis and Design (Series in Geotechnical Engineering)", 2nd Edition, John Wiley & Sons, 2000.
- 2. Krishna Raju N. "Advanced Reinforced Concrete Design", 2nd Edition, CBS Publishers and Distributors, 2006.

21		
GVPCE(A)	M.Tech. Structural Engineering	2014

REFERENCES:

- 1. Eldey Mc. K., Naxey Brooke K.K. "The Industrial Cooling Tower with special reference to design, construction, operation and maintenance of water cooling tower", 1st Edition, Elsevier Publishing company, 1990.
- 2. Smith, Bryan Stafford & Alex C., "*Tall Building Structures & Analysis Design*", 1st Edition, John Wiley, 2011.
- 3. Srinivasulu, P and Vaidyanathan, G.V., *"Handbook of Machine Foundations"*, 2nd Edition, Tata McGraw Hill, , 1999.
