

Devi Ahilya University, Indore, India Institute of Engineering & Technology			
Subject Code and Name	Type	L-T-P	Credits
VLR7C2: Design of Steel Structures – II	L	T	P
	PC	3-1-1	4+1(P)

COURSE CONTENTS

Unit I: Plate Girders

Necessity of plate girders- equivalent uniformly distributed load – design of welded plate girders – intermediate stiffeners – vertical and horizontal – bearing stiffeners

Unit – II

Trussed girder bridges for railways and highways (IRC & IRS holding). Bearings for bridges.

Unit – III

Water Tanks: Pressed steel tanks, tanks with ordinary plates, square, rectangular, circular with hemispherical bottom and conical bottom.

Unit - IV

Guyed and self supporting steel stacks (Chimneys). Bunkers, Silos

Unit – V

Transmission line towers : Introduction, types of towers, tower configuration, load analysis and design of members.

Reference Books :-

1. Design of Steel Structures , Ramammutham
2. Design of Steel Structures Punmia B.C
3. Design of Steel Structures, Ramchandra Vol II
4. Design of Steel Structures, Arya and Azmani
5. Design of steel structures, L.S. Negi

Course Outcomes: At the end of the course, the student will be able to:

- Design steel gantry girders
- Design railway and highway trussed bridges
- Design storage structures water tank, bunkers and silos
- Design chimney and towers