

## THIRD YEAR – FIFTH SEMESTER

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<b>AC 503</b>	<b>STRUCTURES-V</b>	<b>( L=2,S=2,W=0)</b>	<b>CREDITIS =02</b>
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**INTERNAL ASSESSMENT(TERM WORK) = 50**  
**UNIVERSITY EXAMINATION = 50**

**CONTACT HRS/WK = 04**

**Focus:** Design of Steel Structures

**Contents:** Introduction to structural steel, Rolled steel sections.  
Design of Tension members, compression member & flexural member.  
Types of connections – Rivetted, welded and bolted. Methods of riveting, welding and bolting.  
Design of Rivetted and welded connections. Design of Tension members, compression member & flexural member.  
Concept of built up beams and columns – recommended uses.  
Concept of lacings, battening & importance of bracings.  
Design of truss members, gusset plate.  
Introduction to footings for steel columns.  
Conceptual study of general connections – Beam to beam connections – Beam to column connections – column to column connections – column to foundation connection.

### REFERENCES:

<b>SR.NO.</b>	<b>TITLE</b>	<b>AUTHOR</b>
01.	Design Of Steel Structures	Arya & Ajmani
02.	Design Of Steel Structures	A.K.Jain
03.	Design Of Steel Structures	Duggal
04.	Design Of Steel Structures	Bresler, Lin & Scaly
05.	IS Code 800– 1984 – Code Of Practice For Structural Steel Design	BIS, New Delhi
06.	IS Handbook – 1, Structural Sections & Properties	BIS, New Delhi