

**CB546 Special Topics In Steel& Composite Stru.**

**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB444	5	9 – 10	2	2	0	3

**COURSE AIM**

The course concerns with some topics of design, which was not covered in the previous design courses.

**COURSE WEEKLY CONTENTS**

- 1 Design of composite steel-concrete structural elements (composite beams, composite columns and composite beam-columns).
- 2 Design of composite steel-concrete structural elements (composite beams, composite columns and composite beam-columns). continue
- 3 Design of composite steel-concrete structural elements (composite beams, composite columns and composite beam-columns). continue
- 4 Design of composite steel-concrete structural elements (composite beams, composite columns and composite beam-columns). continue
- 5 Design of composite steel-concrete structural elements (composite beams, composite columns and composite beam-columns). continue
- 6 Design and construction of Steel Bridges
- 7 Design and construction of Steel Bridges. Continue, Midterm Exam
- 8 Design and construction of Steel Bridges. continue
- 9 Design and construction of Steel Bridges. continue
- 10 Design and construction of Steel Bridges. continue
- 11 Design and construction of Structural Elements made of cold-formed steel sections.
- 12 Design and const. of Structural Elements made of cold-formed steel sections.
- 13 Design and const. of Structural Elements made of cold-formed steel sections.
- 14 Design and const. of Structural Elements made of cold-formed steel sections.
- 15 Design and const. of Structural Elements made of cold-formed steel sections. continue

**STUDENT GRADING & ASSESSMENT**

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	10	M A R K S		→	30
To be freely distributed among possible assessments							
8 to 12	←		20	M A R K S		→	20
13 to 15	←		10	M A R K S		→	10
16 or 17	40 Final						40
<b>Total</b>	<b>Exams</b>	<b>Assign.</b>	<b>Quizzes</b>	<b>Reports</b>	<b>Present.</b>	<b>Lab.</b>	<b>100</b>

REFERENCES

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- Textbook** Egyptian Code of Practice for steel construction and bridges code No. 205-2001, 2012.
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- Other** Composite structures of Steel and Concrete, JOHNSON, R.P Publisher:  
Volume 1: beams, slabs, columns and frames for buildings, Blackwell  
Scientific Publications, London, 3rd Edition, 2004.