

**CB525 Special Topics In Construction Eng.**

**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB523	5	9 – 10	2	2	0	3

**COURSE AIM**

The aim of this course is at introducing the student to the knowledge of construction engineering in the area of building construction, bridge construction, and tunnel construction.

**COURSE WEEKLY CONTENTS**

- 1 Shoring and reshoring operations.
- 2 Shoring and reshoring operations.
- 3 Design and construction of advanced formwork systems
- 4 Design and construction of advanced formwork systems
- 5 Design and construction of advanced formwork systems
- 6 Advanced systems in building construction
- 7 Advanced systems in building construction + Midterm Exam
- 8 Precast concrete technology
- 9 Bridge construction systems
- 10 Bridge construction systems
- 11 Bridge construction systems
- 12 Tunnel construction
- 13 Tunnel construction
- 14 Blasting rock
- 15 Health and Safety

**STUDENT GRADING & ASSESSMENT**

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	10	MARKS		→	30
To be freely distributed among possible assessments							
8 to 12	←		20	MARKS		→	20
13 to 15	←		10	MARKS		→	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** Construction Planning, Equipment, and Methods, Robert Peurifoy, Clifford Schexnayder, Robert Schmitt and Aviad Shapira, McGraw Hill, 9th Edition, 2018
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- Other** Modern Construction and Ground Engineering Equipment and Methods, Harris, F., Longman Group Co., U.K., Latest Edition.  
Construction Methods and Management, Nunnally, S.W. Publisher: Prentice Hall, New Jersey, Latest Edition.  
Construction Planning, Equipment, and Methods by Peurifoy, R.L., Ledbetter, W.B., and Schexnayder, G.J., McGraw Hill Co., New York, Latest Edition.  
Formwork for Concrete Structures, Peurifoy, R.L., and Oberlender, G.D. McGraw Hill Co., New York, Latest Edition.  
Construction Methods and Planning, Illingworth, J.R., E and FN SPON, London, Latest Edition.