UNIVERSITI TEKNOLOGI MARA

BSS552: CONSTRUCTION TECHNOLOGY II

Course Name (English)	CONSTRUCTION TECHNOLOGY II APPROVED
Course Code	BSS552
MQF Credit	3
Course Description	This course is aimed to cover in detail the various elements and method of construction of industrial and commercial buildings. The topic ranges from concrete production to foundation, walls and roofs, taking into account the construction method, assembly technique of different materials, components and choice of materials.
Transferable Skills	Construction buildability and methods; Materials and components
Teaching Methodologies	Lectures, Blended Learning, Field Trip, Tutorial
CLO	CLO1 To identify the technology of industrial and commercial building construction CLO2 To analyse and rationale the methods applied, the materials chosen, the cost-benefits and safety requirements.
Pre-Requisite Courses	No course recommendations

Topics
1. Topic 1: Introduction To Construction Methods And Materials 1.1) n/a
2. Topic 2: Builder's Plant And Temporary Works And Services 2.1) n/a
3. Topic 3: Concrete Production 3.1) n/a
4. Topic 4: Reinforcement 4.1) n/a
5. Topic 5: Foundation 5.1) n/a
6. Topic 6: Framed Building Construction 6.1) n/a
7. Topic 7: Reinforced Concrete Frames 7.1) n/a
8. Topic 8: Steel Frames 8.1) n/a
9. Topic 9: Portal Frames 9.1) n/a
10. Topic 10 : Walls 10.1) n/a
11. Topic 11: Roofs 11.1) n/a
12. Week 13: Presentation 12.1) n/a
13. Week 14 : Revision 13.1) n/a

14. Week 15: Exam
14.1) n/a

Assessment Breakdown	%
Continuous Assessment	30.00%
Final Assessment	70.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Assignment	n/a	20%	CLO1 , CLO2
Test	n/a	10%	CLO1 , CLO2

Reading List

Recommended Text

- **Yit Lin Chew, Michael, *Construction Technology for Tall Buildings:*, World Scientific Publishing Company [ISBN: 9789814390132]**
- **R. Chudley and R. Greeno, *Building construction handbook*, Oxford ; Butterworth-Heinemann, 2008. [ISBN: 9780750686228]**
- **R. Barry, *The construction of buildings*, Oxford ; Blackwell Science, 1999- [ISBN: 0632052619]**
- **Francis D. K. Ching 2008, *Building construction illustrated*, John Wiley & Sons Hoboken, N.J. [ISBN: 9780470087817]**
- **P.C. Varghese, *Building Materials*, Prentice-Hall of India Pvt.Ltd [ISBN: 9788120328488]**
- **William P. Spence 1998, *Construction methods, materials, and techniques*, Delmar Publishers Albany, N.Y. [ISBN: 9780314205377]**
- **2010, *Construction materials*, Spon London [ISBN: 0203927575]**
- **Eric Fleming, *Construction Technology*, Wiley-Blackwell [ISBN: 9781405102100]**
- **Ben C. Gerwick, Jr 1993, *Construction of prestressed concrete structures*, Wiley New York [ISBN: 9780471181132]**

Article/Paper List

This Course does not have any article/paper resources

Other References

- **Website *Design of Structural Elements***
  http://web.itu.edu.tr/celep/files/design_-of-structural-elements_eurocdes_BS.pdf
- **Website *Construction Materials, Fourth Edition***
  http://ebooks.narotama.ac.id/files/Construction%20Materials;%20Their%20Nature%20and%20Behaviour/Cover%20&%20Table%20of%20Contents%20-%20Construction%20Materials;%20Their%20Nature%20and%20Behaviour .pdf