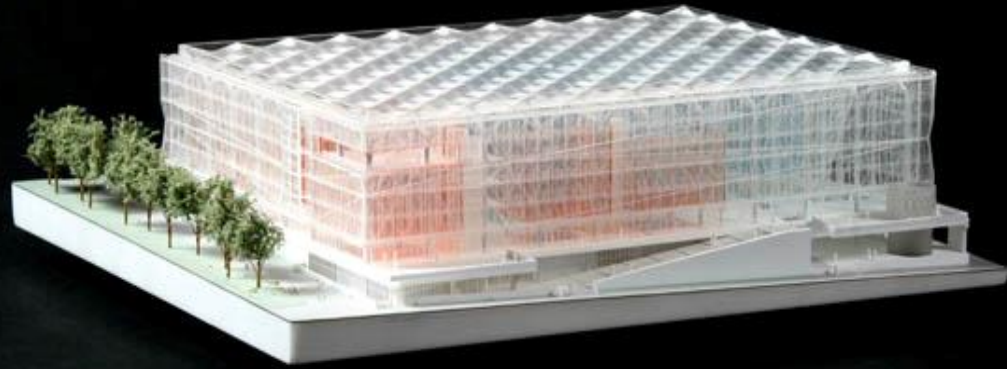
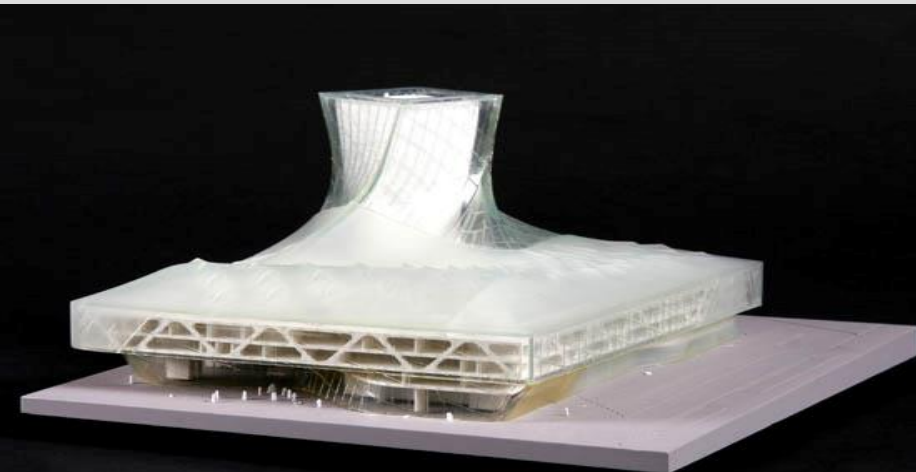


DEPARTMENT OF MATERIALS ENGINEERING AND CHEMISTRY
FACULTY OF CIVIL ENGINEERING
CZECH TECHNICAL UNIVERSITY IN PRAGUE



123 MED - MATERIALS ENGINEERING



Lectures

Igor Medved

Office: Block A, Floor 3, Room #328

E-mail: igor.medved@fsv.cvut.cz

Consultation hours: On demand

Seminars

Jaroslav Pokorný

Office: Block D, Floor 1, Room #1015

E-mail: jaroslav.pokorny@fsv.cvut.cz

Web page of the course

<http://tpm.fsv.cvut.cz/student/subject.php>



Time schedule

Material engineering (123MED, 2+2) - Lichý i sudý týden				
	1-2	3-4	5-6	7-8
Po				
Út				
St				
Čt			TH:A-229 P-1 (19 stud.) Medved' I.	TH:D-s162 C-101 (19 stud.) Pokorný J.
Pá				
	Přednáška		Cvičení	Laboratoře



Day	Room A229 12:00pm – 1:50pm	Room D062 14:00pm – 15:50pm
October 6	Lecture	Lab – Introduction Creating groups of students. Students come once in 2 weeks. Safety rules for laboratory work. Requirements to receive a credit.
October 13	X	X
October 20	X	Lab – Basic material parameters Gravimetry – several types of material, pycnometric method – sand
October 27	Lecture	Lecture
November 3	Lecture	Lab – Water transport Vertical absorption into aerated concrete
November 10	Lecture	X
November 17	X (Holiday)	X (Holiday)
November 24	Lecture	Lecture
December 1	Lecture	Lab – Water vapor transport Wet-cup, dry-cup methods, diffusion resistance factor
December 8	Lecture	Lab – Thermal properties Isomet – different materials, calculation (dry, wet) Flat and needle probes
December 15	Lecture	Lab - Dynamic viscosity + microscope Measurement - water, glycerol according to Stokes formula
December 22	Credit test 15 minutes test from laboratory seminars	Test + Grading
Credit: Jan 5 - Feb 19		



Grading:

- A written test (30 %)
 - 20 min, 8 simple questions
 - For example: "What is the matrix density?" or "What quantity is measured by the hot-wire method?"
- A presentation of a topic concerning materials engineering (30 %)
- Laboratory reports (40 %)