

Faculty of Civil Engineering

Warsaw University of Technology

CIVIL ENGINEERING STRUCTURES (CES)

- Design of reinforced concrete, metal, and composite structures:
 - Buildings, industrial structures, special structures
 - Computer Aided Design (CAD Software)
 - Building Information Modelling (software operating in accordance with BIM: Allplan Engineering, ConSteel, Robot S.A., Revit, Dlubal, Idea Statica, SCIA Engineer, Lumion, etc.)
- Construction and prefabrication processes
- Modernisation & repair

Theoretical and practical knowledge

→ More job opportunities

CES – PROGRAMS OFFERED

Undergraduate Studies, BSc

- Sem VII:
- Concrete Structures III (60h)
- Metal Structures III (60h)
- Building Physics (30h)
- Architecture and Urban Planning (45h)
- Computer Methods in Civil Engineering (45h)
- 3 Elective Courses (90h)
- Sem VIII:
- Student internships
- Diploma Seminar
- BSc Thesis

Graduate Studies, MSc – new study program ** OMNIS 2



(Coordinator of the OMNIS2 project group for CE I and CE II studies – Prof. Wioleta Barcewicz, PhD, Eng)

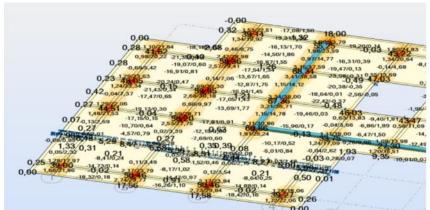


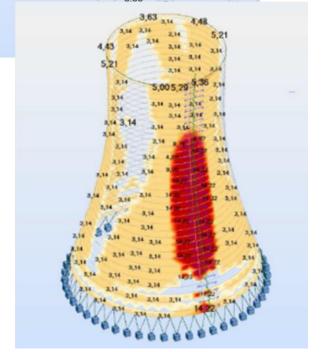


THE SCOPE OF COURSES AND DIPLOMA THESES

- Reinforced Concrete Structures
- Prestressed Concrete Structures
- Composite Structures
- Prefabricated Structures

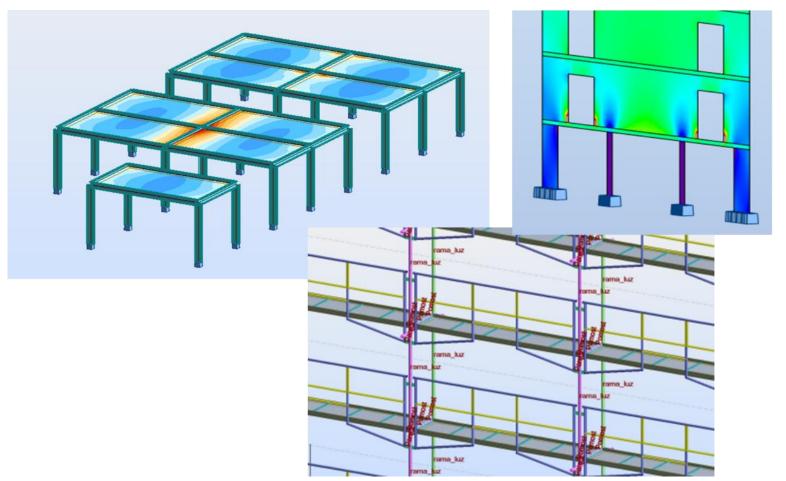


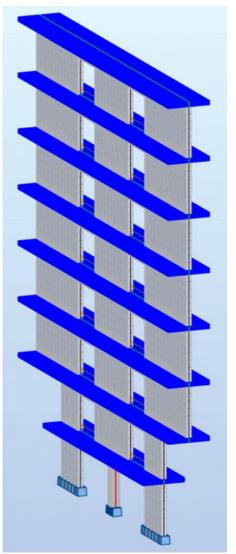




ELECTIVE COURSES

• Computer Systems for Structural Analysis (BSc, sem. VII)





ELECTIVE COURSES

• FRP Composites for RC Structures (BSc, sem. VII)













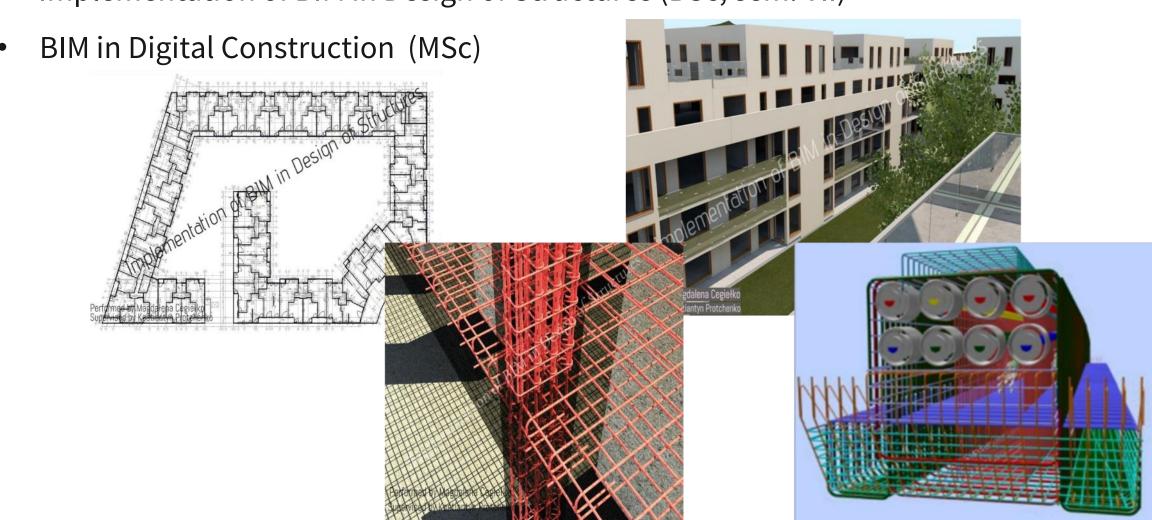






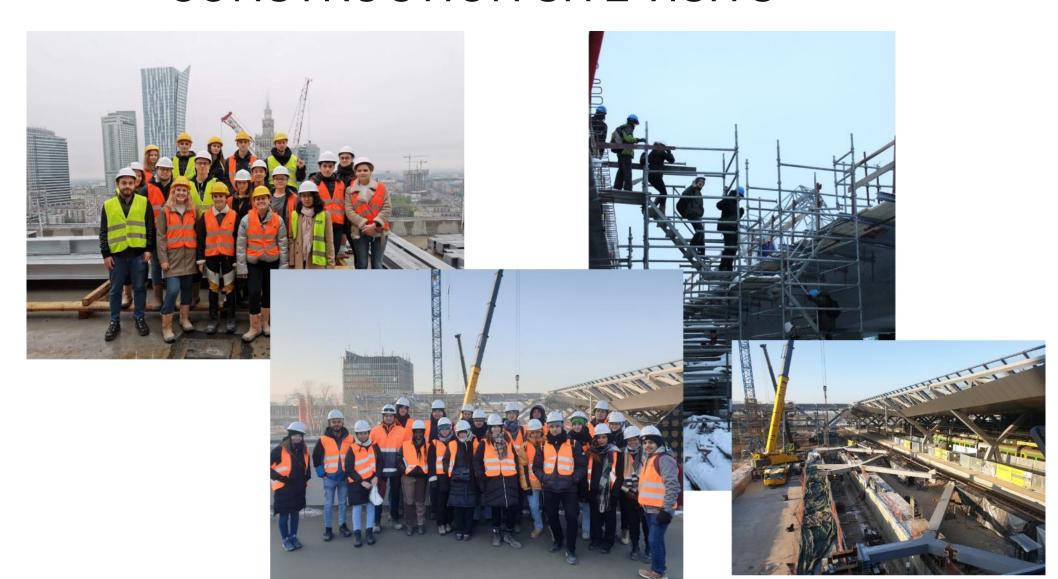
ELECTIVE COURSES

• Implementation of BIM in Design of Structures (BSc, sem. VII)





CONSTRUCTION SITE VISITS



STUDENT RESEARCH GROUPS



Coordinator: dr inż. Maria Włodarczyk



Coordinators: prof. dr hab. inż. Andrzej Garbacz dr inż. Kostiantyn Protchenko

THE SCOPE OF COURSES

Metal Structures (single-storey buildings, multi-storey buildings) (BSc)





Special & Industrial Metal Structures (tanks, towers, masts, chimneys) (MSc)



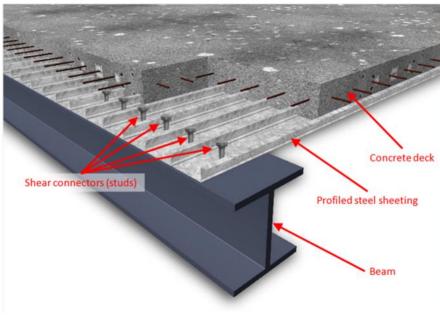




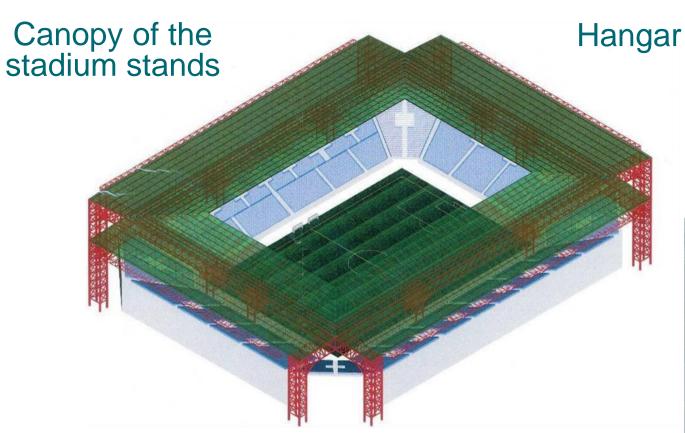
THE SCOPE OF COURSES

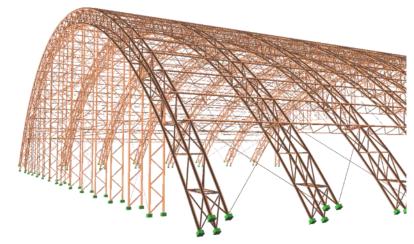
Composite Steel-Concrete Structures (MSc)





THE SCOPE OF DIPLOMA THESES

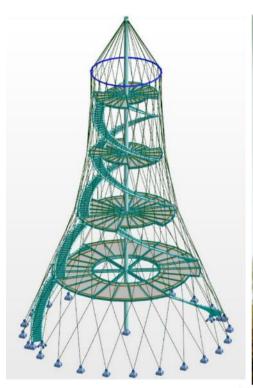




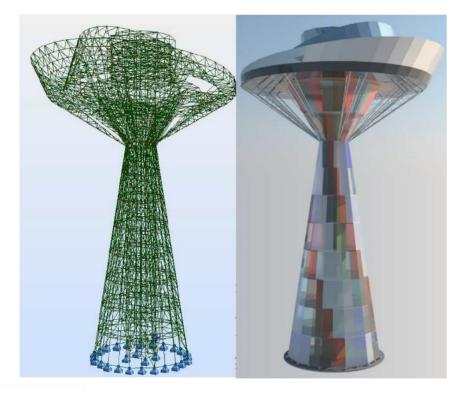


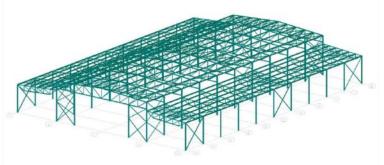
Office building

THE SCOPE OF DIPLOMA THESES











PARTICIPATION IN EVENTS

Technical trips to fabrication shops, galvanizing plants, and construction site visits





Workshops for students, seminars, and more...

Coordinator: Prof. Wioleta Barcewicz, PhD, Eng







DIVISION OF METAL STRUCTURES

COOPERATION WITH STUDENT RESEARCH GROUP OF METAL STRUCTURES





Coordinators: Maciej Cwyl, PhD, Eng Tadeusz Zwoliński, MSc, Eng







CES – CIVIL ENGINEERING STRUCTURES

WHY CES?

Broad theoretical and practical knowledge

- reinforced concrete, metal structures, composite structures
- design, construction, modernisation and repair

Interesting BSc and MSc Thesis

- many supervisors
 and a variety of thesis
 topics
- creative work and self-development of CES diploma students

Many job opportunities

- design & construction & supervision
- office & construction site
- corporations & small private business
- research & education



Thank you for your attention.

See you in class!