



International BIM Manager - digital construction management in a multinational environment

- Program - studia podyplomowe

online part-time 1 semester English

Why study digital construction management in a multinational environment at WSB Merito University?

The recruitment for the program is no longer open.

If you are interested in studying at WSB in the next recruitment period, leave a contact.

We will notify you about the possibility of re-admission to the studies you are interested in.

The programme is the result of cooperation between WSB Merito Universities from all over Poland.

You will gain new knowledge and skills, thanks to classes delivered in a hybrid format. Some of the classes will be held in the traditional form in lecture halls, and some will be held online on the MS Teams platform. You will attend classes according to a fixed schedule of conventions.

Classes are conducted in English. The necessary knowledge of English by the participants of the classes: at least at the B2 level.

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umowy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między english_poznan a studentem zawierana jest w formie pisemnej.



Participants:

Studies are aimed at those working in or wanting to work in international, multilingual environments, i.e.:

- architects, MEP engineers structural engineers and surveyor engineers.
- design and construction managers, team leaders,
- investors' representatives from public and private sectors.
- facility managers representing building owners in different sectors and organisations managing buildings and infrastructure.
- other professionals looking to expand their knowledge of BIM.

You will learn how to:

- define BIM strategy in multinational organisations
- prepare for BIM standardization
- create key documents to support BIM processes,
- use tools to help coordinate and manage information
- build teams and conform to collaboration rules
- coordinate & validate BIM models on different stages of information delivery
- exchange data using open BIM standards

Main goals of the study

- preparing participants for a position of BIM Manager/BIM coordinator in international entities, on a designer's, contractor's or client's side.
- broadening knowledge of BIM tools and processes
- preparing participants for active involvement in project procurement and execution in an international environment, in accordance with multinational norms and standards (i.e. ISO 19650)

Tuition fee

	Tuition fee
12 installments year	948 zł 1015 zł (12 x 948 zł)
10 installments year	1045 zł 1125 zł (10 x 1045 zł)

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2 installments	1 year	5225 zł 5625 zł (2 x 5225 zł))
1 installment	1 year	10450 zł 11250 zł (1 x 10450 zł)

Contact:

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If you are interested in this direction and want to learn more about recruitment issues (such as the number of available places or deadlines for submitting documents), please contact our recruitment office:

e-mail: rekrutacja-sp@wsb.poznan.pl

Phone: 61 655 33 00 532 795 478

Infoline: 61 635 00 31

On the other hand, in matters of content (e.g., class schedule or study program), contact us directly - dsp@wsb.poznan.pl

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Key program features

BIM – introduction to basics – Lecture – 9h

History and current state of BIM methodology.

The role of BIM in the investment process.

BIM Model as a main project information container.

BIM as an information modelling process throughout all stages of the project lifecycle.

Digital construction and key aspects of BIM methods.

International standards.

BIM implementation strategy – Lecture – 9h

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BIM as a standardisation and managerial process.

The human aspect in the implementation of BIM in multinational teams.

The role of a manager in international design and construction of project setup.

Introduction to working in an international environment –g. cultural differences in the BIM Manager's role.

BIM as a standardisation subject – Lecture – 9h

Areas and scope of standardisation.

BIM in accordance with ISO 19650.

Procuring and executing projects following ISO 19650.

Practical terms of standards implementation.

BIM Management as an additional managerial layer of the projects.

Advanced aspects of BIM implementation – Lecture – 9h

Implementing Appointing Party's BIM following Penn State BIM Guide for owners.

BIM process in investment.

Asset Breakdown Structure.

Information Requirements.

Implementation strategy – key aspects for Appointing Party.

Legal aspects of BIM in contracts.

Information protocol as a foundation in the process.

Specifics of BIM implementation in an international environment – Lecture – 9h

Role of a BIM team in the company.

Roles and responsibilities in various, new positions.

Basic processes of model creation and maintenance.

Documents and data sources for projects in BIM.

BIM vs modern project management – Lecture – 9h

BIM manager's role in the international and native process of project management.

Lean and Agile Construction Management – how this goes with BIM – tools and practices.

Model standardisation – Laboratory – 9h

Parameterization and standardisation of library components.



Quality assurance process. LOD/LOI, MIDP and MPDT.
IFC exports.

BIM in design team – Laboratory – 9h

Design team with BIM – organisation and management.
CAD/BIM Standards and configuration of the environment.
Software ecosystem.
Competencies and scope of responsibilities for BIM team members.
Responsibilities Matrix RACI.

BIM Open formats – Laboratory – 9h

Basics of OpenBIM. IFC – definition, geometry properties and data.
Benefits and use.
Classes, Hierarchy, Schemes, Formats of IFC.
Mapping tables.
Exporting to and importing from IFC. Viewers – capabilities and capacities, benefits and drawbacks.
MVD – definition, practical examples.
BCF – project information exchange format.

Model coordination – Laboratory – 9h

Internal and external coordination and interoperability of BIM models.
Auditing process and verification methods.
Basic coordination workflows for checking position, clash detection, information quality.
Clash reports – avoiding, preventing, searching, resolving.

Design process management using CDE – Laboratory – 9h

Processes in CDE – from WIP to Shared.
Administrating, configuring, managing, and supervising CDE.
Creating roles and assigning responsibilities for groups.
Functions of CDE – file registry, communication, coordination, management.
Tracking changes using CDE.
Naming convention – linking with MIDP and TIPD.

Investment process management using CDE – Laboratory – 9h

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Advanced CDEs and their functions.

Files registry, mailing, communication, processes management.

Administrating the platform.

Additional functions – costs, models, bids, reports, data mining, business analytics.

Different platforms comparison.

BIM models on site – Laboratory – 9h

Use of BIM Models in the construction process.

Information source for 4D and 5D.

Classification for systems, products and components.

Project lifecycle.

Quantity and Time schedules as Model exports.

BIM models for Facility Management – Laboratory – 9h

Asset Information Management.

Practical terms for using COBie standard.

Export, management and data verification.

Use of business analysis.

National BIM Object Standard.

NBS BIM Toolkit for facility management.

Information processes organisation on mega-projects.

Advanced Techniques of BIM Management – Laboratory – 9h

Processes standardisation as per case studies.

Mapping processes, setting up and prioritizing goals and BIM purposes.

BIM/GIS Activators.

Appointing party BIM – Laboratory – 9h

BIM goals vs appointment description in international contracts.

AIR, OIR, PIR in international projects.

Contract changes considering BIM aspect.

EIR case study.

Role of communication in international BIM – exercising



Appointed Party BIM – designer and contractor – Laboratory – 9h

Pre and Post contractual BEP Role, form, goals, responsibilities, technical details of and in BEP.
BIM Manager and BIM Coordinator as described in BEP.
PIM and CDE setup.
MPDT and Content Plan.

Advanced techniques of information model creation – Laboratory – 9h

Model creation processes.
Designer's and contractor's documents.
Data sources and modern technologies.
Automation and parameterization.
Working with libraries and components.
Agreeing parameterization in international projects.
Mapping global standards to efficient market standards.



Number of months of
studying: **9**



Number of hours: **162**



Number of meetings:
10



Number of semesters:
2

Program partners



Tuition fees



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12 installments | year 648 zł ~~715 zł~~
(12 x 648 zł)

Tuition fees

10 installments | year 765 zł ~~845 zł~~
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2 installments | year 3695 zł ~~4095 zł~~
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1 installment | year 7150 zł ~~7950 zł~~
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