# Intelligent library system at MGSU

## Iprbooks – main intelligent library system of MGSU

http://www.iprbookshop.ru/

login: mgsu

password: MSTmuETKkM

Afterwards fill online form

With scientific material of:

- Electronic library for different scientific fields.
- For students, PhD researchers, teachers and scientists.
- More than 10 000 publications.
- Monographs, teaching handbooks, journals of different scientific fields.
- Main part of the library consist of more than 200 leading Russian journals.
- Regularly updated and improved in quality.
- Main advantage is the flexible way of using the library.

# Intelligent library system at MGSU

## Electronic library of the association of construction universities of Russia

http://lib.8level.ru/

**With scientific material of:**

- **For different professions including architecture and construction.**
- **Teaching and scientific materials with open access.**
- **Access to full text documents for teachers and students after registration.**
- **Continuously updated by library staff.**
- **Including monograph's, teaching materials, teaching programs.**

# Intelligent library system at MGSU

## Electronic library system “bibliotech”

https://obmen.bibliotech.ru/

**With scientific material of:**

- **Teaching materials of partners of the cooperation program.**
- **A program to exchange experience between faculties.**
- **Monograph's of teachers and scientists.**
- **Publications and scientific reports.**
- **Members are Russian construction universities.**
- **All members receive local server space or space on the central server.**

## eLIBRARY

http://elibrary.ru/defaultx.asp

**With scientific material of:**

- **Teaching, science, education in medicine and technology.**
- **Biggest Russian provider for national and international scientific journals.**
- **Overall amount of publications - 28280, out of it – 5677 Russian publications.**
- **Full text journals - 5380, out of it - 1315 Russian journals .**
- **Overall amount of scientific texts - 1 217 905.**
- **Moscow university of civil engineering, MGSU cooperates with eLIBRARY, continuously publishing teachers and scientists materials.**

## Other electronic library systems

- “Инфра-М” - http://www.infra-m.ru/live/elekrbiblio.asp
- "Кодекс" - http://kodeks-a.ru/kodeks/
- “Norma-CS” - http://www.normacs.ru/
- “Russian national library” http://www.nlr.ru/res/inv/ic_estek/cat_show.php?p=2&rid=783
- “Open inteligent library for engoneering” - http://360gr.ru/?page_id=
- “BBM open online library for architecture and urban design” http://bistep.com/genre/filologija_iskusstvo/arkhitektura_gradostroitelstvo/

# Module specification green built environment (Bachelor)

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<table>
<tr><td colspan="3">Module Title:<br>Green Built Environment</td><td colspan="2">University module code:</td></tr>
<tr><td>Level:<br>Bachelor</td><td>Credit Value:<br>6</td><td>ECTS Value:<br>6</td><td>Length (in Semesters)<br>Single semester</td><td>Semester(s) in which to be offered:<br>Winter semester/<br>Summer semester</td></tr>
<tr><td>Existing/new module:<br>New module</td><td colspan="2">Title of Module being replaced (if any):<br>___</td><td colspan="2">With effect from:<br>09/2013</td></tr>
<tr><td colspan="2">Originating School:<br>MGSU Moscow</td><td colspan="3">Module Co-ordinator(s):<br>Prof. A. Balakina, Prof. M. Eichner</td></tr>
<tr><td colspan="5">Programme(s) in which to be offered:</td></tr>
<tr><td colspan="3">Pre-requisites (between levels):</td><td colspan="2">Co-requisites (within a level):</td></tr>
<tr><td>Indicative learning hours:<br>180</td><td colspan="4">Percentage taught by School(s) other than originating School :<br>0%</td></tr>
</table>

# Module specification (Bachelor)

**Aims of Module:**

- **Knowledge in the field of energy efficiency and sustainability in built environment**
- **Emphasis on housing and settlement development.**
- **Technical, artistic, analytical and architectural knowledge and skills.**
- **Knowledge of sustainable building quality aspects.**
- **Emerging materials and innovative construction technology.**
- **Learning to use digital tools for urban analytics and space creation.**
- **Sustainable urban transformation strategies.**
- **Trained in ecological design strategies.**
- **Considering economic, social, technical and process-oriented aspects.**
- **High architectural quality.**

# Lecture course (Bachelor)

- V1_Sustainable housing buildings - HOUSING QUALITY 1
- V2_Energy efficiency - TECHNICAL QUALITY
- V3_Social housing and building comfort - ECOLOGICAL QUALITY
- V4_Live Cycle Costs - ECONOMICAL QUALITY
- V5_Building standards - PROCESS QUALITY
- V6_Infrastructure and urban context - LOCATION QUALITY
- V7_Wooden construction + BUILDING CULTURE
- V8_Fascination High-rise + CONSTRUCTION INNOVATION

# Module specification (Master)

| | | | | |
|---|---|---|---|---|
| Module Title:<br>Green Built Environment | | | University module code: | |
| Level:<br>**Master** | Credit Value:<br>**6** | ECTS Value:<br>**6** | Length (in Semesters)<br>**Single semester** | Semester(s) in which to be offered:<br>**Winter semester/**<br>**Summer semester** |
| Existing/new module:<br>**New module** | Title of Module being replaced *(if any):*<br>___ | | | With effect from:<br>**09/2014** |
| Originating School:<br>**MGSU Moscow** | Module Co-ordinator(s):<br>**Prof. A. Balakina, Prof. M. Eichner** | | | |
| Programme(s) in which to be offered: | | | | |
| Pre-requisites *(between levels):* | | | Co-requisites *(within a level):* | |
| Indicative learning hours:<br>**180** | Percentage taught by School(s) other than originating School *:*<br>0% | | | |

# Module specification (Master)

**Aims of Module:**

- **Research and design in green built environment, using digital design + digital simulation.**
- **Biomimetic, nature inspiration and sustainable standards.**
- **Smart building and smart material solutions, enhancing energy efficiency.**
- **Bringing together environmental, economic, social and cultural aspects.**
- **Poetic space creation and sustainable performance of buildings.**
- **Design competence in project-specific sustainable solutions.**
- **Applying eco-sustainability valuation aspects.**
- **“Sustainable data processing” as main research method.**
- **Sustainable aspects and environmental research by data processing in algorithms.**
- **Development of buildings or urban environments of high architectural standards.**

# Lecture course (Master)

- V9_Innovative Materials in architecture + CONSTRUCTION INNOVATION
- V10_Solar architecture - RENEWABLE ENERGY
- V11_Social integration - HOUSING FOR DIFFERENT GENERATIONS
- V12_Climate saving urban design - ALTERNATIVE TRANSPORT
- V13_Active buildings and plus Energy standard
- V14_Building reconstruction strategies - ENERGY EFFICIENCY
- V15_Urban reconstruction strategies - URBAN QUALITY
- V16_Sustainable urban visions and experiments

# Module specification (Bachelor)

**target group:**

- **Undergraduate students, interested in interdisciplinary orientated working and learning programs, aiming on "eco-sustainable housing environments and innovative building design".**
- **Students of different specialisation, like architecture, civil engineering, environmental engineering.**
- **Qualified graduates of related disciplines which receive specialist's knowledge, depending on individual basic knowledge.**

# Ecologic housing, Moscow

**Architects: AtelierEICHNER, 2008**


Thank you!