



University of Belgrade

University of Belgrade is the oldest and most important institution of higher education in all of Serbia. Founded in 1808 as the Great Academy in revolutionary Serbia, by 1838 it merged with the Kragujevac based Lycee into a single university. Formally it was granted its university rights by a Royal Charter in 1905.



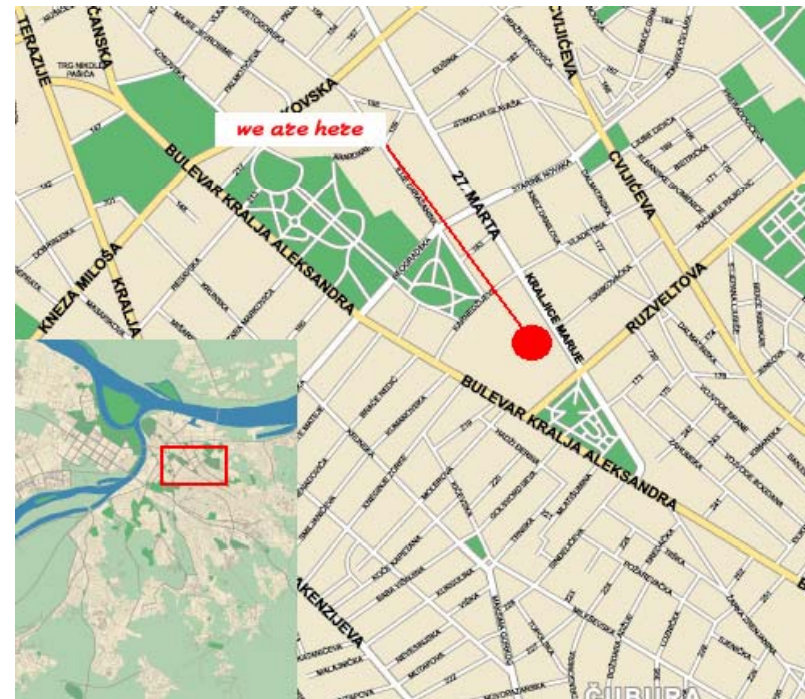
It is one of the largest universities in the Balkan region, counting over **89,000 students** and **4,200 members of teaching staff**. Students can choose from around **150 basic educational programs**. The University has **31 faculties**, **11 scientific research institutes** and a system of university libraries and information centres. The faculties or academic departments are **clustered into four groups** based on their academic characteristics and they include: social sciences, medical sciences, natural sciences and mathematics, and technical sciences.





University of Belgrade – Faculty of Mechanical Engineering

Faculty of Mechanical Engineering, University of Belgrade is the oldest and largest educational and scientific institution in the area of mechanical engineering in Balkan peninsula.



Faculty of Mechanical Engineering, University of Belgrade basically deals with the area of mechanical engineering as well as with the other branches of technique. At the present time in Faculty of Mechanical Engineering there are more than 400 employees involved in education, scientific and research programs. Most of them have PhD degree and work as full time professors, associate professors or assistants at the Faculty of Mechanical Engineering University of Belgrade.



University of Belgrade – Faculty of Mechanical Engineering

Brief history and tradition

- **1863.** – Technical Faculty at the Grand School
- **1873.** – Subject: Mechanics and the Science of Machines
- **1897.** – Mechanical-Technical department
- **1900.** – Department of mechanical engineers
- **1905.** – Grand School = University
- **1922.** – Mechanical-Electrical engineering department
- **1946.** – Mechanical department
- **1948.** – Faculty of mechanical engineering
- **1960.** – Start in the new building



University of Belgrade – Faculty of Mechanical Engineering

Staff

- Full professors 79
- Associate professors 43
- Assistant professors (Dozents) 28
- Assistants 67
- Researchers 52
- Laboratory personnel 32
- Administrative personnel 131



University of Belgrade – Faculty of Mechanical Engineering

Faculty of Mechanical Engineering, University of Belgrade is the oldest and largest educational and scientific institution in the area of mechanical engineering in Balkan peninsula.



Organization of the Faculty:

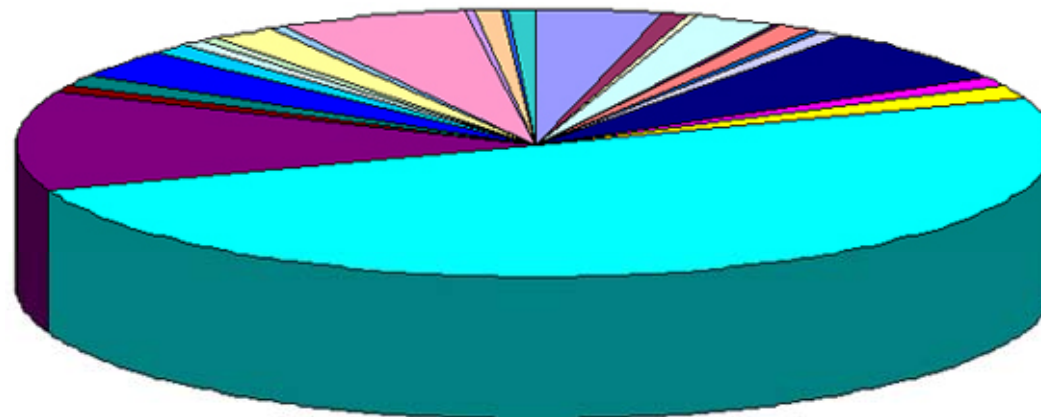
- Faculty Council
 - President of the Council
- Dean
 - Vice-deans for:
 - teaching process,
 - finances,
 - research and business,
 - organisation and accreditation
 - Secretary
- Heads of chairs
 - Heads of laboratories



University of Belgrade – Faculty of Mechanical Engineering

Faculty of Mechanical Engineering, University of Belgrade, was founded in 1948, and since then **258 students from 26 foreign countries** received the Diploma degree in engineering by studying and graduated in Serbian language in integrated 5 years (graduated Engineer Diploma).

Algeria	10	Austria	2	Bolivia	1
Cyprus	6	Egypt	1	Ethiopia	3
Germany	1	Ghana	2	Greece	17
India	3	Indonesia	4	Iraq	129
Jordan	31	Kuwait	2	Lebanon	4
Libya	8	Hungary	3	Nepal	2
Palestine	2	Poland	5	Rwanda	1
Syria	15	Sri Lanka	1	Sudan	4
Tanzania	1	Zaire	2		



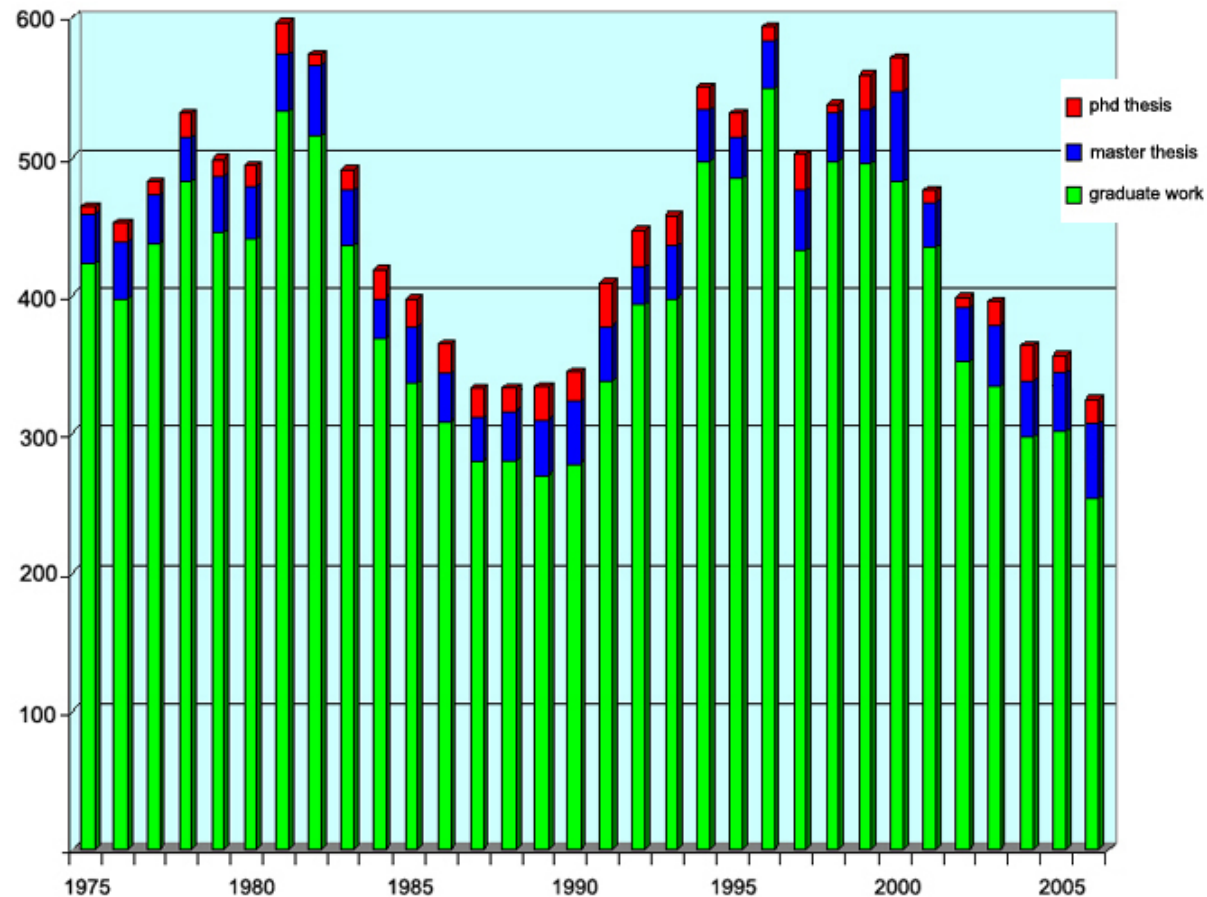
Algeria	Austria	Bolivia	Cyprus	Egypt	Ethiopia	Germany
Ghana	Greece	India	Indonesia	Iraq	Jordan	Kuwait
Lebanon	Libya	Hungary	Nepal	Palestine	Poland	Rhuanda
Siria	Sri Lanka	Sudan	Tanzania	Zaire		



University of Belgrade – Faculty of Mechanical Engineering

Faculty of Mechanical Engineering, University of Belgrade, was founded in 1948, and since then **18,300** students received the Diploma degree in engineering, **1300** received Master of Sciences Diploma and **600** received PhD Diploma.

Until September 30, 2005, Faculty academic studies were integrated in 5 years (**graduated Engineer Diploma**), post graduated studies in 2 years (**Master of Engineering**) and PhD research and Thesis presentation (**PhD in Engineering**).





University of Belgrade – Faculty of Mechanical Engineering

Since the Academic year 2005/6 studies at the Faculty of Mechanical Engineering, University of Belgrade are organized according to new curricula harmonized with the new High Education Law, as determined by Bologna Declaration.

Ph.D. in ME		Ph.D. STUDIES	8	16	480				
Licenced Engineer	Professional Exam					↑	7	14	420
M.Sc. Spec. Engineer	Specialisation Studies	↑	6	12	360				
B.Sc. in ME	B.Sc. STUDIES	4	8	240					
					3	6	180		
2	5	150							
			1	4	120				
3	90								
		2	60						
1	30								
		ACADEMIC STUDIES			Year	Sem	ECTS		



THE ROYAL INSTITUTION
OF NAVAL ARCHITECTS

This is to certify

that the

**M Eng in Mechanical Engineering
Dipl. Ing. in Serbian
Spec. module: Naval Architecture**

at

UNIVERSITY of BELGRADE

has been accredited by the

Royal Institution of Naval Architects

and satisfies the academic requirements for

Corporate membership of the Institution



All our study programs are ACCREDITED by Committee for Accreditation and Quality Verification of the Republic of Serbia

Chief Executive
The Royal Institution of Naval Architects

2009 – 2013



Accreditation Certificate

for the

**Bachelor's degree programme
„Mechanical Engineering“
at the
University of Belgrade**

The award of the subject-based ASIIN seal is valid from 28 June 2013 and limited until 30 September 2018.

The degree programme includes the following options: full time path.

The degree programme is aligned to Level 6 of the European Qualifications Framework for Life-long Learning (EQF LLL).

21 July 2014

Dr.-Ing. Martin Molzahn
Chairmen of the Accreditation Commission
for Degree Programmes

Prof. Dr. Jürgen Grotemeyer
Chairmen of the Accreditation Commission
for Degree Programmes

Dr. Iring Wasser
Managing Director

The ASIIN seal is awarded to a degree programme which fulfills the requirements of academia and professional life in the respective disciplines on a high level. At the same time it confirms that the conditions for good teaching and successful learning are provided. The award of the label is based on recognized learning-outcome oriented subject-specific standards aligned with the European Qualifications Framework and the „European Standards and Guidelines“.



Accreditation Certificate

for the

**Master's degree programme
„Mechanical Engineering“
at the
University of Belgrade**

The award of the subject-based ASIIN seal is valid from 28 June 2013 and limited until 30 September 2018.

The degree programme includes the following options: full time path.

The degree programme is aligned to Level 7 of the European Qualifications Framework for Life-long Learning (EQF LLL).

21 July 2014

Dr.-Ing. Martin Molzahn
Chairmen of the Accreditation Commission
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European Accreditation of Engineering Programmes

EUR-ACE® Bachelor

This is to certify that the engineering degree programme

Mechanical Engineering

provided by
University of Belgrade

accredited by
ASIIN e.V.

on September 27th, 2013 until September 30th, 2018

satisfies the criteria for Bachelor degree programmes specified in the EUR-ACE® Framework Standards for the Accreditation of Engineering Programmes, and therefore for the above period of accreditation is designated as a

EUROPEAN-ACCREDITED ENGINEERING
BACHELOR DEGREE PROGRAMME.

c e r t i f i c a t e



For the European Network for Accreditation of Engineering Education (ENAE)



For ASIIN

The President
Prof. Dr. Bernard Renaud

Brussels, July 21st, 2014

The Chairman of the Accreditation Commission
Dr.-Ing. Martin Molzahn

Düsseldorf, July 21st, 2014

A graduate of this programme may define him/herself "EUR-ACE® Bachelor/Master" as appropriate.



European Accreditation of Engineering Programmes

EUR-ACE® Master

This is to certify that the engineering degree programme

Mechanical Engineering

provided by
University of Belgrade

accredited by
ASIIN e.V.

on September 27th, 2013 until September 30th, 2018

satisfies the criteria for Master degree programmes specified in the EUR-ACE® Framework Standards for the Accreditation of Engineering Programmes, and therefore for the above period of accreditation is designated as a

EUROPEAN-ACCREDITED ENGINEERING
MASTER DEGREE PROGRAMME.

c e r t i f i c a t e



For the European Network for Accreditation of Engineering Education (ENAE)



For ASIIN

The President
Prof. Dr. Bernard Renaud

Brussels, July 21st, 2014

The Chairman of the Accreditation Commission
Dr.-Ing. Martin Molzahn

Düsseldorf, July 21st, 2014

A graduate of this programme may define him/herself "EUR-ACE® Bachelor/Master" as appropriate.



**THE ROYAL INSTITUTION
OF NAVAL ARCHITECTS**

This is to certify

that the

MSc in Mechanical Engineering

spec. module:

Naval Architecture

at

UNIVERSITY of BELGRADE

has been accredited by the

Royal Institution of Naval Architects

and satisfies the academic requirements for

Corporate membership of the Institution

Chief Executive
The Royal Institution of Naval Architects

2013 – 2017

This is to certify that **ENGINEERING PROGRAMMES** from the

**University of Belgrade
Faculty of Mechanical Engineering**

satisfy Feani prerequisites for European engineering education and
are included accordingly in the FEANI INDEX of recognized schools and programmes.

FEANI maintains an INDEX listing the institutions of engineering higher education in European countries represented within FEANI, and their engineering programmes, which are recognized by FEANI as fulfilling the mandatory education requirements for the EUR ING title. Being approved by all FEANI National Members, the FEANI INDEX is an authoritative source of information about national engineering education systems and educational institutions.

For FEANI
The President,
Dr. Rafael FERNANDEZ ALLER

Signature

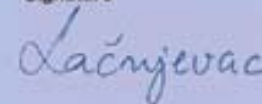


Brussels, 15.05. 2014



For UETS
The President
Prof. dr Časlav Lačnjevac

Signature



Belgrade, 22.05. 2014.



РЕПУБЛИКА СРБИЈА
КОМИСИЈА ЗА АКРЕДИТАЦИЈУ И
ПРОВЕРУ КВАЛИТЕТА
Број: 612-00-01260/2012-04
08.03.2013. године
Београд

У В Е Р Е Њ Е
О АКРЕДИТАЦИЈИ ВИСОКОШКОЛСКЕ УСТАНОВЕ

УНИВЕРЗИТЕТ У БЕОГРАДУ - МАШИНСКИ ФАКУЛТЕТ са седиштем у
КРАЉИЦЕ МАРИЈЕ 16, БЕОГРАД, ПИБ: 100209517, Матични број: 07032501, испунио
је стандарде за акредитацију високошколске установе, прописане Правилником о
стандардима и поступку за акредитацију високошколских установа и студијских
програма („Службени гласник РС“ број 106/06, 112/08).
Ово уверење издаје се на основу члана 16. став 5. тачка 1) Закона о високом
образовању („Службени гласник РС“ број 76/05, 100/07, 97/08, 44/10).

Достављено:
- високошколској установи
- архиви КАПК



РЕПУБЛИКА СРБИЈА
КОМИСИЈА ЗА АКРЕДИТАЦИЈУ И
ПРОВЕРУ КВАЛИТЕТА
Број: 612-00-01260/2012-04
08.03.2013. године
Београд

У В Е Р Е Њ Е
О АКРЕДИТАЦИЈИ СТУДИЈСКОГ ПРОГРАМА
ОСНОВНИХ АКАДЕМСКИХ СТУДИЈА

УНИВЕРЗИТЕТ У БЕОГРАДУ - МАШИНСКИ ФАКУЛТЕТ са седиштем у
КРАЉИЦЕ МАРИЈЕ 16, БЕОГРАД, ПИБ: 100209517, Матични број: 07032501, испунио
је стандарде прописане Правилником о стандардима и поступку за акредитацију
високошколских установа и студијских програма („Службени гласник РС“ број 106/06,
112/08), за акредитацију студијског програма: **основне академске студије -
МАШИНСКО ИНЖЕЊЕРСТВО** за извођење на српском и енглеском језику у оквиру
поља техничко-технолошких наука и то за упис 540 (петстотиначетрдесет) студената у
прву годину у седишту Установе.
Ово уверење издаје се на основу члана 16. став 5. тачка 1) Закона о високом
образовању („Службени гласник РС“ број 76/05, 100/07, 97/08, 44/10).

Достављено:
- високошколској установи
- архиви КАПК



РЕПУБЛИКА СРБИЈА
КОМИСИЈА ЗА АКРЕДИТАЦИЈУ И
ПРОВЕРУ КВАЛИТЕТА
Број: 612-00-01260/2012-04
08.03.2013. године
Београд

У В Е Р Е Њ Е
О АКРЕДИТАЦИЈИ СТУДИЈСКОГ ПРОГРАМА
МАСТЕР АКАДЕМСКИХ СТУДИЈА

УНИВЕРЗИТЕТ У БЕОГРАДУ-МАШИНСКИ ФАКУЛТЕТ са седиштем у
КРАЉИЦЕ МАРИЈЕ 16, БЕОГРАД, ПИБ: 100209517, Матични број: 07032501, испунио
је стандарде прописане Правилником о стандардима и поступку за акредитацију
високошколских установа и студијских програма („Службени гласник РС“ број 106/06,
112/08), за акредитацију студијског програма: **мастер академске студије -
МАШИНСКО ИНЖЕЊЕРСТВО** за извођење на српском и енглеском језику у оквиру
поља техничко-технолошких наука и то за упис 416 (четиристотинашеснаест) студената
у прву годину у седишту Установе.
Ово уверење издаје се на основу члана 16. став 5. тачка 1) Закона о високом
образовању („Службени гласник РС“ број 76/05, 100/07, 97/08, 44/10).

Достављено:
- високошколској установи
- архиви КАПК



РЕПУБЛИКА СРБИЈА
КОМИСИЈА ЗА АКРЕДИТАЦИЈУ И
ПРОВЕРУ КВАЛИТЕТА
Број: 612-00-01260/2012-04
08.03.2013. године
Београд

У В Е Р Е Њ Е
О АКРЕДИТАЦИЈИ СТУДИЈСКОГ ПРОГРАМА
ДОКТОРСКИХ СТУДИЈА

УНИВЕРЗИТЕТ У БЕОГРАДУ - МАШИНСКИ ФАКУЛТЕТ са седиштем у
КРАЉИЦЕ МАРИЈЕ 16, БЕОГРАД, ПИБ: 100209517, Матични број: 07032501, испунио
је стандарде прописане Правилником о стандардима и поступку за акредитацију
високошколских установа и студијских програма („Службени гласник РС“ број 106/06,
112/08), за акредитацију студијског програма: **докторске студије - МАШИНСКО
ИНЖЕЊЕРСТВО** за извођење на српском и енглеском језику у оквиру поља
техничко-технолошких наука и то за упис 50 (педесет) студената у прву годину у
седишту Установе.
Ово уверење издаје се на основу члана 16. став 5. тачка 1) Закона о високом
образовању („Службени гласник РС“ број 76/05, 100/07, 97/08, 44/10).

Достављено:
- високошколској установи
- архиви КАПК





University of Belgrade – Faculty of Mechanical Engineering

Bachelor Academic Studies - three years (six semesters) program

The semester system spans an academic year (divided into two semesters, both with a short interruption). The curriculum thus consists of four lecture periods of seven weeks. The system is based on an interim-examination period at the end of each semester (in January and June). Table lists white (compulsive) and green (elective) subjects student has to perform during his studies.

<i>1st year</i>		<i>2nd year</i>		<i>3rd year</i>	
<i>1st semestet</i>	<i>2nd semestet</i>	<i>3rd semestet</i>	<i>4th semestet</i>	<i>5th semestet</i>	<i>6th semestet</i>
Mathematics 1	Mathematics 2	Mathematics 3	Thermodynamics	Fluid Mechanics	Electical Engineering
Mechanics 1	Strength of Constructions	Mechanics 2	Mechanics 3	Numerical Methods	Control Engineering
Cnstructive Geometry	Engineering Graphics	Machine Details 1	Machine Details 2	Manufacturing Technology	Elective Subject 6.3.5
Strength of Materials					
Physics and measurements	Social subject	Engineering Materials 2	Elective Subject 4.4.5	Elective Subject 5.4.5	Elective Subject 6.4.5
	Engineering Materials 1				
English Language 1	English Language 2	Elective Subject 3.5.5	Mechanical eng. in praxis	Elective Subject 5.5.5	B.Sc. Gradual Work
Computer programming	Computational Tools				

Duration of this studies is 6 (six) semesters or 36 (thirty six) months.
Each semester is valid 30 ECTS (European Credit Transfer System).



Program is ACCREDITED by Committee for Accreditation and Quality Verification of the Republic of Serbia



University of Belgrade – Faculty of Mechanical Engineering

Master Academic Studies two years (four semesters) program

In Master Academic Studies enrolment is possible for all the students with B.Sc. University degree, who previously successfully completed 3 (three) years of engineering study (Mechanical, Electrical, Civil, Chemical, Technology, etc). All Modules may be attended by engineering students with previously earned 180 ECTS.

<i>1st year</i>		<i>2nd year</i>	
<i>1st semester</i>	<i>2nd semester</i>	<i>3rd semester</i>	<i>4th semester</i>
Elective Module Subject 1.1.5	Elective Module Subject 2.1.5	Elective Module Subject 3.1.5	M.Sc.Thesis (Diploma work)
Elective Module Subject 1.2.5	Elective Module Subject 2.2.5	Elective Module Subject 3.2.5	
Mechanics or Fluid Mechanics	Elective Module Subject 2.3.5	Elective Module Subject 3.3.5	
Thermodynamics or Mechatronics	Elective Subject 2.4.5	Elective Subject 3.4.5	
Elective Subject 1.5.5	Elective Subject 2.5.5	Elective Subject 9.5.5	

Enrolling to the 1st year of M.Sc. studies, student obligatory chooses the elective Module (specialization), and then in each semester certain number of Elective Courses from the offered lists. Elective Module is a group of Courses which are connected and compulsory to pass for a certain Module.



Program is ACCREDITED by Committee for Accreditation and Quality Verification of the Republic of Serbia



University of Belgrade – Faculty of Mechanical Engineering

Ph.D. Academic Studies Program three years (six semesters) program

For an outstanding orientation in profession and science – three-year postgraduate (doctoral) studies
(6 semesters = 180 ECTS)

<i>1st year</i>		<i>2nd year</i>		<i>3rd year</i>	
<i>1st semester</i>	<i>2nd semester</i>	<i>3rd semester</i>	<i>4th semester</i>	<i>5th semester</i>	<i>6th semester</i>
Advanced Mathematics	Advanced Selected Topics	Elective Subject	PhD Thesis proposal preparations	Laboratory research, work on Thesis, publication in SCI Journals, teaching activities	Laboratory research, work on Thesis, publication in SCI Journals, teaching activities
Numerical Methods	Elective Subject	Elective Subject	Laboratory research, work on Thesis, publication in SCI Journals, teaching activities		
OMSR and Communication	Elective Subject	Laboratory research and publication in SCI Journals, teaching activities			
Elective Subject	Laboratory research and publication in SCI Journals, teaching activities				
Laboratory research and publication					

Compulsory Courses are : Advanced Mathematics, Numerical Methods, OMSR and Communications and Advanced Selected Topics (either in mechanics or in fluid/gas mechanics). Elective Subject is a school subject that student elects from an offered list, as determined in a semester table. Laboratory research and work on publications in SCI Journals is directly in the function of Ph.D. Thesis



Program is ACCREDITED by Committee for Accreditation and Quality Verification of the Republic of Serbia



University of Belgrade – Faculty of Mechanical Engineering

Chairs and Departments

Faculty of Mechanical Engineering, University of Belgrade is organized through
24 Chairs and Departments (15 specialized and 9 general)

1. Production Engineering
2. Material handling, constructions & logistics
3. Agricultural Machinery
4. Industrial Engineering
5. Mechanics
6. Theory of Mechanisms and Machines
7. Thermal Science Engineering
8. Thermal Power Engineering
9. Process Engineering & Environment Protection
10. Thermal Mechanics
11. Hydro Power Engineering
12. Mathematics
13. Aeronautical Engineering
14. Control Engineering
15. Physics and Electronics
16. Fluid Mechanics
17. Weapon Systems
18. Naval Architecture
19. Internal Combustion Engines
20. Motor Vehicles
21. Railway Mechanical Engineering
22. General Machine Constructions
23. Engineering Materials
24. Strength of Structures



Lists of modules

1. Biomedical engineering
2. Naval architecture
3. Aerospace engineering
4. Design in mechanical engineering
5. Railway mechanical engineering
6. Welding and welded structures
7. Engineering of biotechnical systems
8. Industrial engineering
9. Information technologies
10. Motor vehicles
11. Internal combustion engines
12. Food industry engineering
13. Production engineering
14. Process engineering and environment protection
15. Control Engineering
16. Weapon systems
17. Thermal power engineering
18. Material handling, constructions and logistics
19. Thermal science engineering
20. Hydropower engineering
21. Computational Engineering (Supported by TUM)



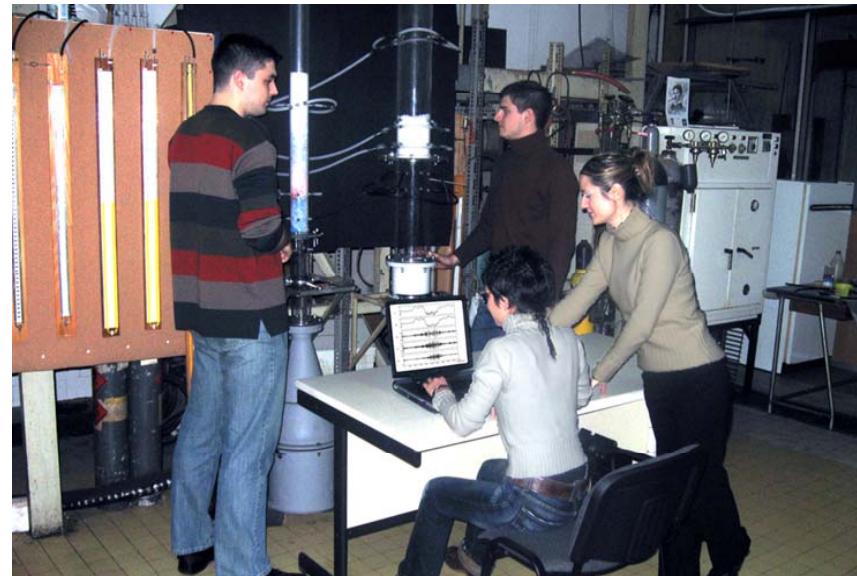
University of Belgrade – Faculty of Mechanical Engineering

Facilities

Faculty of Mechanical Engineering has over 30 different laboratories for both education and scientific research, majority of them are now accredited by JUAT

In more than **40,000 square meters** of space there exist :

- 30 lecture rooms
- 4 amphitheatres
- 3 celebration rooms
- 4 rooms for numerical laboratories
- 30 laboratories
- 120 offices





University of Belgrade – Faculty of Mechanical Engineering

Simulation Laboratories

- Infrastructure:
- Cluster Parallel Computing
 - SGI Indigo Work stations
 - IBM PC Work stations
 - Dell PC Work stations
 - 3D Printer



More than 800 computers connected in LAN.





University of Belgrade – Faculty of Mechanical Engineering

SimLab

Laboratory for CFD, FEM and parallel processing.
This Lab is donation of HRK (German Rector Conference) (in use since 2002).



Infrastructure:

Cluster Parallel Computing
SGI Indigo Work stations
IBM PC Work stations
Dell PC Work stations

This Lab is Linux cluster of 14 double-processor boxes, intended for:

- to teach students to program in parallel environment ;
- to adjust and solve engineering problems using parallel environment ;
- to supply students a tool with which they can finish MSc and PhD Thesis ;
- to be a research tool



University of Belgrade – Faculty of Mechanical Engineering

CAD / CAM Laboratories

Full authorized CAD/CAM software:

- ProEngineer
- Catia
- AutoDesk Inventor
- Solid Works

Authorized CFD and FEM software:

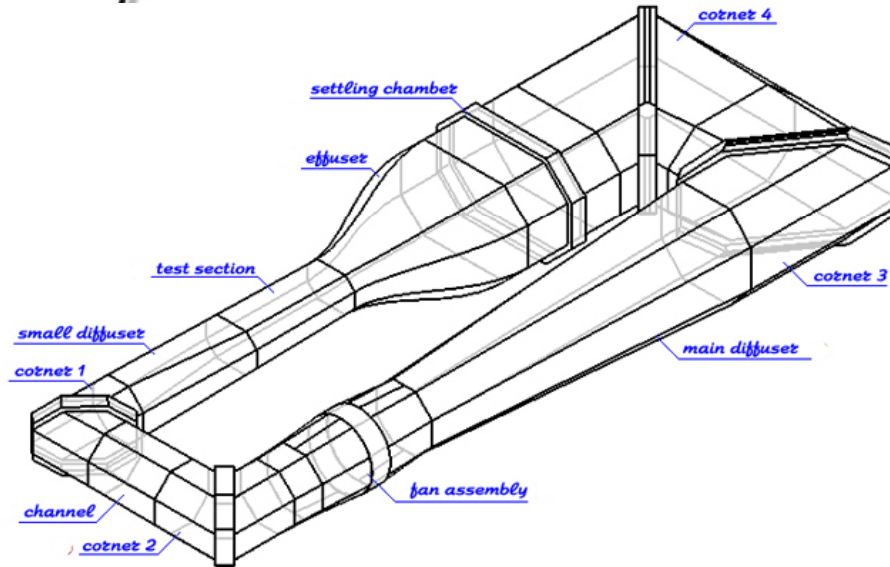
- Fluent
- ANSYS
- Nastran





University of Belgrade – Faculty of Mechanical Engineering

Subsonic wind tunnel SB-1





University of Belgrade – Faculty of Mechanical Engineering

Faculty Library

Our students may have free approach to The National Library, University Library and to Faculty of Mechanical Engineering Library.

Faculty Library started with work immediately in 1948 when Faculty of Mechanical Engineering was split from Faculty of Technology. At the start Library had only 2572 books. At the present time, Faculty library **has over 70000 titles**

Member of Serbian Library Consortium for Coordinated Acquisition (KoBSON).





University of Belgrade – Faculty of Mechanical Engineering

Library with large reading room

We have a vital role to play during student time spend at the Faculty of Mechanical Engineering. Situated at the Faculty building, we are open from 9am to 5pm each weekday, during semesters and our aim is to provide student with all the information they need.



The surroundings are relatively old, comfortable and ideal for study and there are 200 reading spaces available for both group-work and individual study.



University of Belgrade – Faculty of Mechanical Engineering

Publishing service
Faculty bookshop for buying and printing textbooks.





University of Belgrade – Faculty of Mechanical Engineering

Students and faculty visitors have free approach to **Internet Cafe**.
At the present time there are 40 available computers in Internet Cafe.





University of Belgrade – Faculty of Mechanical Engineering

Faculty restaurants





University of Belgrade – Faculty of Mechanical Engineering

