DualEdu

UNIVERSITY OF BELGRADE
FACULTY OF MECH. ENGINEERING

Studentski Trg 1, 11000 Belgrade

http://www.bg.ac.rs/

Prof. Dr.-Ing. Nenad Zrnić


1857-1863

Presentation Plan

University of Belgrade

↓

Faculty of Mechanical Engineering

UNIVERSITY OF BELGRADE
Tradition and scope

- University of Belgrade is the oldest and most important institution of higher education in Serbia. Founded in 1808 as the Grand School 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 (King Petar I Karađorđević) in 1905.

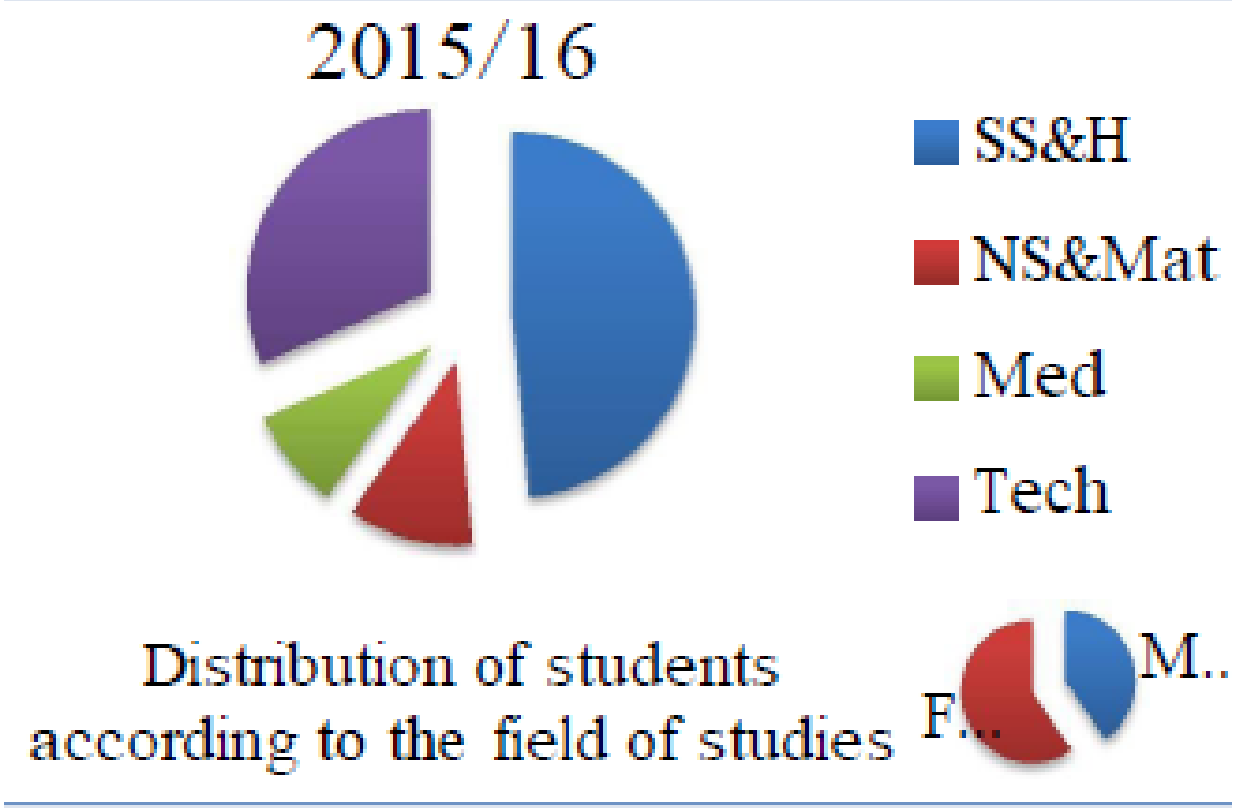
About the University of Belgrade

- It is one of the largest universities in the Balkan region, counting ca. **100,000 students** and ca. **5,000 members of teaching/research staff and ca. 3,000 members of non-teaching staff**. Students can choose from around **350 educational (study) programs,**
- Our comprehensive University has **31 faculties**, **11 scientific research institutes,** and 12 centres including university library,
- The faculties or academic departments are **clustered into four groups** based on their academic characteristics and they include: **social sciences/humanities, medical sciences, natural sciences and mathematics, and technical sciences.**

Some more facts about UB

- According to the Serbian Law on Higher Educations, **all UB faculties and institutes are legal entities by themselves,**
- Annual budget of UB is ca. 160 mil. EUR, ca. 60% are public fundings,
- Around 5% of foreign students from ca. 100 countries, several joint and double deegrees programs, ca. 80 programs in English according to intentions in the UB strategy of internationalization.

Distribution of students into 4 groups



International cooperation

Over 200 bilateral agreements of cooperation with universities from close to 60 countries.

Networks and Associations:

EUA, UNICA, UNIADRION, AUF, AARC Danube Rectors Conference (DRC) Black Sea University Network (BSUN)

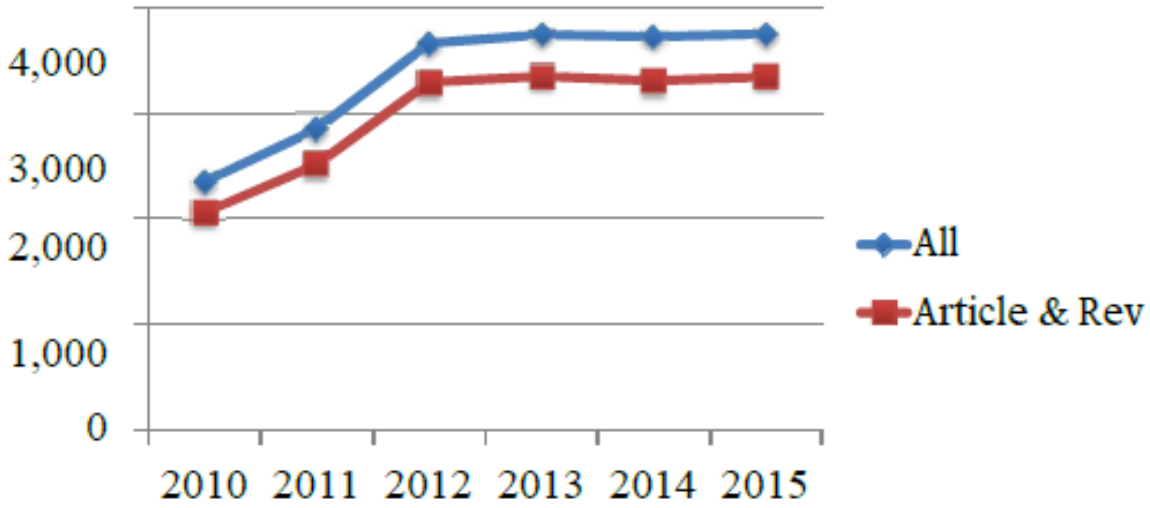
CERN, CNR, INFN

Ongoing projects

Erasmus+ KA1	- 211 app. - 108 neg. - 86 signed
Erasmus+ KA2	11
TEMPUS	14
Erasmus Mundus	8
LLP	9
AUF	5
HERD	1
King Baudouin	1
CEEPUS	27 net

Research

National	424
FP7	108
Horizon 2020	32
ERC	1



Article & Revew 2015

Serbia	5.220
UB	3.321
	63,62%

LERU-CE7 Meeting



University of Belgrade, Serbia
Eötvös Loránd University, Budapest, Hungary
University of Ljubljana, Slovenia,
Charles University, Prague, Czech Republic
University of Tartu, Estonia
University of Warsaw, Poland
University of Zagreb, Croatia

Universitas 21 Ranking of National Higher Education Systems

U21 Ranking 2017

Rank	2016	Country	Score	2016
1	1	United States of America	100.0	100.0
2	2	Switzerland	86.9	87.2
3	4	United Kingdom	85.5	84.3
4	3	Denmark	83.5	84.8
5	5	Sweden	83.4	82.2
6	8	Singapore	80.8	80.6
7	9	Canada	80.2	79.6
8	7	Netherlands	80.0	81.6
9	6	Finland	79.9	82.0
10	10	Australia	79.6	77.6
. . .				
39	39	Serbia	44.1	43.9

Universitas 21 Ranking of National Higher Education Systems

2017 Overall Ranking Adjusted

Rank	Country	% dev
1	Serbia	26.9
2	United Kingdom	21.2
3	South Africa	20.2
4	Denmark	16.8
5	Sweden	16.6
6	Finland	16.5
7	New Zealand	13.7
8	Portugal	11.6
9	Israel	11.3
10	Australia	10.8

0.3% GDP invested in research

% dev = percentage deviation from expected value at nation's level of GDP per capita.

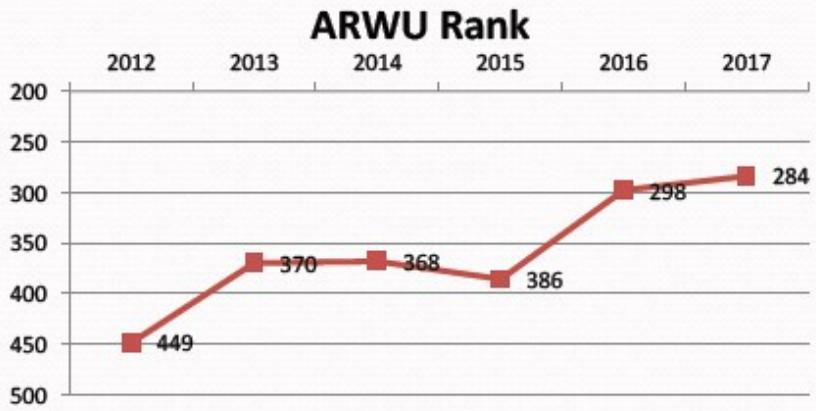
Academic Ranking of World Universities (Shanghai ranking)



Academic Ranking of World Universities (Shanghai ranking)

University of Belgrade is the only university from Serbia on this list, starting from 2012.

	World Rank	Alumni	Award	HiCi	N&S	PUB	PCP	Total
2012	449	0	0	0	1.5	39.2	16.9	9.83
2013	370	0	0	0	2.1	44.4	20.4	11.34
2014	368	0	0	0	2.2	44.9	20.9	11.5
2015	386	0	0	0	2.5	43.3	21.0	11.3
2016	298	0	0	10.3	4.4	43.7	22.3	13.9
2017	284	0	0	15.4	4.5	43.6	23.1	15.0



UB – Faculty of Mechanical Engineering







Brief History

1808 | 1863 | 1873 | 1897

1808

Grand School

UNIVERSITY OF BELGRADE
1808 • 2008



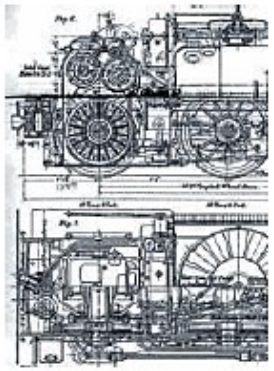
Technical Faculty on the Grand School



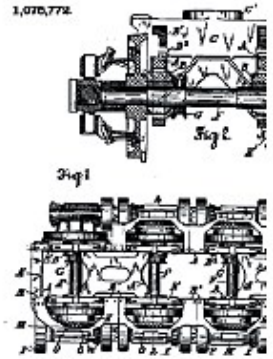
1863

1873

Subject: Mechanics and the Science of Machines



Mechanical-Technical department



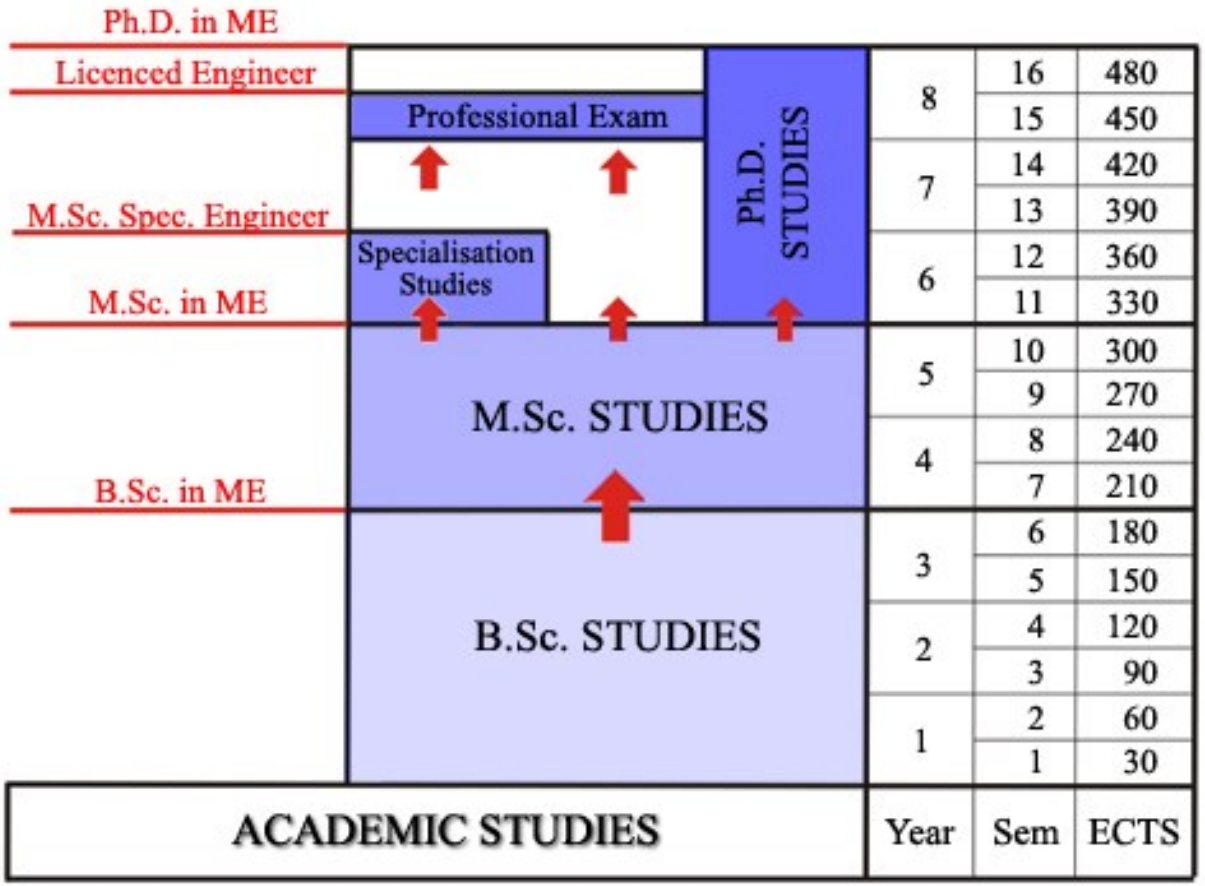
1897

Brief History



- **Faculty of Mechanical Engineering - University of Belgrade is the institution of high national significance and represents the basis of development of the mechanical science and industry in Serbia;**
- **Ca. 3500 students attend academic programs on more than 20 study modules and more than 400 staff members (more than 200 members of academic staff) are employed at the Faculty.**

System of Studies



Master studies

Hours weekly	1st year		2nd year	
	1st	2nd	3rd	4th
1	COURSE OF ELECTIVE MODULE 1.1.5	COURSE OF ELECTIVE MODULE 2.1.5	COURSE OF ELECTIVE MODULE 3.1.5	Master (M.Sc.) thesis (Diploma work) 4.9
2				
3				
4				
5				
6	COURSE OF ELECTIVE MODULE 1.2.5	COURSE OF ELECTIVE MODULE 2.2.5	COURSE OF ELECTIVE MODULE 3.2.5	
7				
8				
9				
10				
11	Mechanics M or Fluid mechanics M 1.3.5	COURSE OF ELECTIVE MODULE 2.3.5	COURSE OF ELECTIVE MODULE 3.3.5	
12				
13				
14				
15				
16	Thermodynamics M or Mechatronics 1.4.5	Elective course 2.4.5	Elective course 3.4.5	
17				
18				
19				
20				
21	Elective course 1.5.5	Elective course 2.5.5	Elective course 3.5.5	
22				
23				
24				
25				
		Skill praxis M of elective module 2.8		

International accreditations, ASIIN and RINA

ASIIN

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".

ASIIN

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 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".

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

Chief Executive
The Royal Institution of Naval Architects

2009 – 2013

Member FEANI



feani
European Federation of National Engineering Associations

CERTIFICATE

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

Lačnjevac

Belgrade, 22.05. 2014.

WWW.FEANI.ORG

FEANI is a federation of professional engineers that unites national engineering associations from 34 European Higher Education Area (EHEA) countries.

THANK YOU...

Contact persons:

Prof. Dr.-Ing. Nenad Zrnić
nzrnic@mas.bg.ac.rs
Dr.-Ing. Zarko Miskovic
zmiskovic@mas.bg.ac.rs