

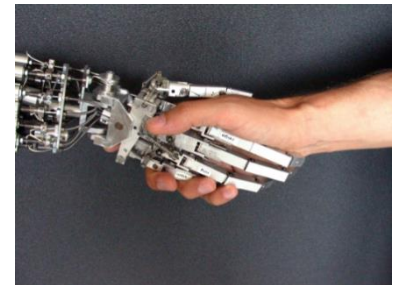


Kick-off Meeting 21-22 March 2017 Berlin



Technische Universität Berlin, a university with international reputation in Germany's capital:

- third largest University of Technology in Germany, member of TU 9
- research and teaching ranging from engineering and natural sciences to humanities and social sciences
- intensive cooperation between science and industry
- joint research projects with numerous non-university research institutes
- alliance between technology and humanities to meet the challenges of the future





1770 - 1821

Founding of the antecedent academies:
Mining Academy, Building Academy and Vocational Academy

1879

Unification into Royal Technical College of Berlin



1945 - 1946

After World War II Re-Establishment as Technische Universität

1950

Establishment of the Faculty for Humanities

2005

Formation of Research and Teaching in 7 Faculties

2006

Reforms in administrative and committee structure



Facts and Figures



Students	32.000
female	10.300
international	6.000

Faculties (Schools)	7
Degree programs	109



Professors	400
Scientific staff	2.364
Other Staff	4.402

PhD/year	460
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Budget:

From government	280 Mio. €
Additional (third party) funds	170 Mio. €





Faculty	Name	Institutes
I	Humanities	7
II	Mathematics and Natural Sciences	6
III	Process Sciences	6
IV	Electrical Engineering and Computer Sciences	6
V	Mechanical Engineering and Transport Systems	7
VI	Planning – Building - Environment	8
VII	Economics and Management	3



International Orientation

Cooperation programs with foreign universities >130

Student exchange programs with foreign universities >330

Dual Degree Programs with foreign universities > 40

European Elite Programs:
Erasmus Mundus 4
EIT ICTLabs 7

Campus El Gouna (Egypt)

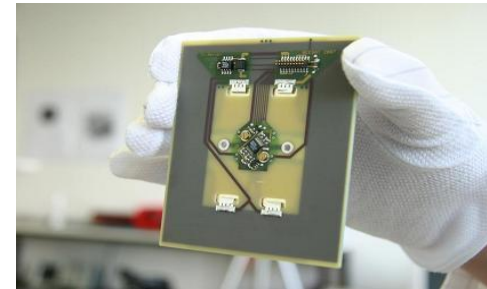




4 Main Points at Chair of Space Technology



Curricula in Space Technology



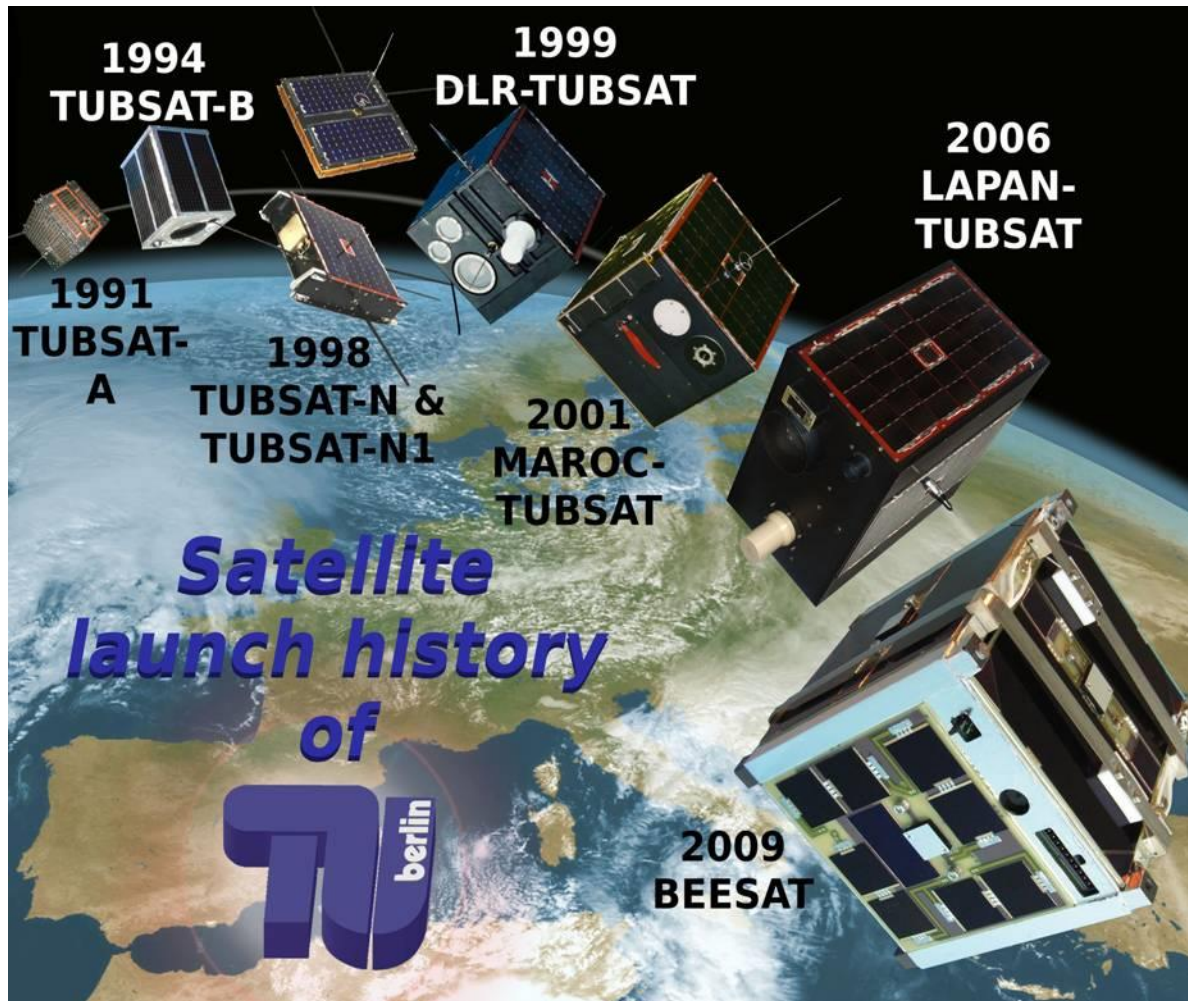
Space Technology Research



Theoretical and Hands-on
Education in Satellite Technology



Theoretical and Hands-on
Education in Rocket Technology



1991	TUBSAT A	35 kg
1994	TUBSAT B	40 kg
1998	TUBSAT N	8,5 kg
1998	TUBSAT N1	3 kg
1999	DLR-TUBSAT	45 kg
2001	MAROC-TUBSAT	48 kg
2007	LAPAN-TUBSAT	45 kg
2009	BEESAT-1	1 kg
2013	BEESAT-2	1 kg
2013	BEESAT-3	1 kg
in preparation		
2014	TUBIN	20 kg
2014	BEESAT-4	1 kg
2015	TECHNOSAT	15 kg
2015	S-NET	4 X 10 kg



Educational and Research Projects

Neues Curriculum in Raumfahrttechnik

<http://ncr-tgai.eu/> 2007-2009

Curricula Reform in Space Technology

<http://www.crist-kru.eu/> 2008-2011

Practice Oriented Master Programmes in Engineering

<http://promeng.eu/> 2010-2013

Two cycle E-Commerce curricula to serve Information Society in RU, UA, IL

<http://ecommis.eu/> 2011-2014

Strengthening education in space-based remote sensing for monitoring of eco systems

<http://sesremo.eu/> 2013-2016

Modernization of two cycles (MA,BA) of competence-based curricula in Material Engineering according to the best experience of Bologna Process

<http://mmateng.eu/> 2013-2016

New Model of the Third Cycle in Engineering Education Due to Bologna Process

<http://netceng.eu/> 2013-2016



GEO capacity building initiative in Central Asia

<http://www.geo-seoca.net/> 2010-2011

Methods and tools for dual access to the EO
databases of the EU and Russia

<http://medeo-eu-ru.org/> 2011-2012

Problem-oriented processing and database creation
for Ionosphere Exploration

<http://popdat.org/> 2011-2013

Small explorer for advanced missions
2013-2016

Super light-weight thermal protection system for
space application

2014-2017

Mobility academic network between EU and
Central Asia

<http://maneca-em.org/> 2010-2014



Role of TUB in the project

- Full administration, coordination and management of the project
- Communication with the Agency and partners
- Schedule of the co-ordination meetings /conferences/master classes/trainings
- Control of the academic achievements
- Control over budget, keeping of all required by the Agency documents/contracts/invoices
- Communication with the Agency
- Reporting to the Agency (intermediate report and final report)
- Keep the work plan updated
- Fill in the Table of Achieved Outcomes as activities completed
- Purchase of the equipment
- Arrangements of the mobility



Project Team



Prof. Dr. - Eng. Klaus Brieß
Head of chair of space technology



Dipl.- Eng.
Dmitriy Bogdanov



Dipl.- Eng.
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