Double Degree Programme
TU Munich – Tomsk Polytechnic University

Department of Informatics,
Technische Universität München,
Germany

Institute of Cybernetics,
Tomsk Polytechnic University, Russia

International Days – 9 July 2012 - Munich
Tomsk, Russia

Tomsk, administrative center of the Tomsk region

International Days – 9 July 2012 - Munich
Tomsk city

- Founded: 1604
- Population: > 500,000
- River: Tom
- Universities: 6
- Students: 85,000
- Green area: 18%
Tomsk city

International Days – 9 July 2012 - Munich
Tomsk Polytechnic University

- Founded in 1896
- Ranks 2nd out of 148 technical universities of Russia
- About 22,800 students and 2,300 faculty
- 11 academic institutes and schools
- 3 research institutes
Tomsk Polytechnic University

11 academic institutes
- Institute of Natural Resources
- Institute of Power Engineering
- Institute of High Technology Physics
- Institute of Cybernetics
- Institute of Non-Destructive Testing
- Institute of Physics and Technology
- Institute of Social and Humanitarian Technologies
- Institute of International Education and Language Communication
- Institute of Lifelong Learning
- Department of Engineering Pedagogy
- Reserve-Officer Training Department
Tomsk Polytechnic University

• Degree programmes
  – **55** Bachelor Degree
  – **74** Qualified Specialists
  – **52** Master Degree
  – **88** PhD and Doctoral Degree
Institute of Cybernetics

- Founded in 1976
- About 1500 students including 60 international students every year
- 39 bachelor, master and PhD programmes
- 3 Double Degree master programmes
- 3 bachelor programmes available in English
- 60 other courses available in English
- Faculty to students ratio of ~ 1:6
- 40% of female students
IC: Academic offer

- Computer Science and Technology
- Information Systems and Technology
- Mechatronics and Robotics
- Automation of Workflow and Production
- Control in Computer Systems
- Applied Mathematics
- Applied Computing
- Standardization and Metrology
- Mechanical Engineering
- Design-Engineering Supply for Mechanical Engineering
- Artistic Processing of Materials
- Design
IC: Research areas

• Data transfer, navigation and control for hard-to-access and mobile objects;
• Resource-efficient control systems based on geo-information and CALS technology for distributed enterprises;
• Virtual enterprise;
• High-performance computing;
• High-speed processing of materials;
• Processing and storage of remotely sensed data;
• 3D Oil and Gas fields modeling;
• Measurements of complex objects properties;
• IT for social and medical purposes;
• Knowledge management systems;
• 3D communication technology, etc.
Double Degree Programme Essentials

- **Master of Science and Technology** of the Institute of Cybernetics of TPU and the **Master of Science in Informatics** of the Faculty of Informatics of TUM
- Application deadline **October 31**
- Enrollment **October 1**
- Official language **English** (TOEFL, Cambridge FCE, Cambridge CAE, or an equivalent certificate)
- Russian language courses upon request
- Total of **150 ECTS**
- **No tuition fee** while students are in Russia
- **Scholarship** 10,000 RUR (~ €250) per month
# Double Degree master programme

<table>
<thead>
<tr>
<th>Semester</th>
<th>Period</th>
<th>Activity</th>
<th>University</th>
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<tbody>
<tr>
<td>1</td>
<td>October – March</td>
<td>Courses</td>
<td>TUM</td>
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<td>2</td>
<td>April – July</td>
<td>Courses</td>
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<td>3</td>
<td>October – January</td>
<td>Courses</td>
<td>TPU</td>
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<tr>
<td>4</td>
<td>February – June</td>
<td>Courses</td>
<td>TPU</td>
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<tr>
<td>5</td>
<td>October – January</td>
<td>Master thesis</td>
<td>TPU, TUM</td>
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Double Degree master programme

Distribution of ECTS units between universities

**TUM 2 SEMESTERS**
- Courses from FMA or AWR 8
- Master lab course 10
- Other courses 22
- Master seminar 4

**TPU 2 SEMESTERS**
- Obligatory courses of the subject area 7
- Courses of soft skills 8
- Other courses 19
- Pedagogical training 4
- Obligatory courses of the major area 22

**BOTH UNIVERSITIES**
- Master’s thesis 30

Total for the university: 60 ECTS units
Total for the university: 60 ECTS units
Total for the program: 150 ECTS units

International Days – 9 July 2012 - Munich
Student Support Service

- Pick-up service upon arrival in Tomsk
- One-week orientation program
- Visa support, campus and city orientation
- Free accommodation
- Medical insurance plan
- Academic advisor and personal curriculum
- International student association
Additional information and contacts

• Useful links:
  – Tomsk travel guide http://www.tomsk.world-guides.com/ (en)

• Contacts
  – Prof. Ernst Mayr (mayr@in.tum.de)
  – Eduard Malakhov (malakhov@tpu.ru)