CTU is one of the **biggest** and **oldest technical universities** in Europe

CTU was **founded** on the initiative of **Josef Christian Willenberg** on the basis of a decree issued **on January 18th, 1707** by **Emperor Josef I.**

CTU currently has and about 23000 students at **8 faculties**:
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Nuclear Science and Physical Engineering
- Architecture
- **Transportation Sciences**
- Biomedical Engineering
- Information Technology
For the academic year 2015 – 2016 CTU offers 117 study programmes and 457 fields of study.

In 2014 was ranked between 411th and 420th place out of 3000 universities worldwide in the QS World University Rankings.

The top representative of CTU is rector – for:
- relations with other universities in the Czech Republic and abroad
- relations with public and state organs – especially with the Ministry of Education, Youth and Sport
- relations with business circles
- relations with members of the public

prof. Ing. Petr Konvalinka, CSc.
Rector of CTU in Prague
Faculty of Transportation Sciences

Our mission is ...

- in the **all fields of transportation**:
  - to **educate** students
  - carry out scientific **research**
  - solve investigate **projects**

- taking into account the **requirements** of the market and with **emphasis on**:
  - modern **transport infrastructure**
  - new trends in **air transport** and **logistics**
  - development of **road traffic engineering**
  - state-of-the-art technologies
  - ITS = **intelligent transportation systems**
  - relations between **transportation & the environment**
Faculty of Transportation Sciences
We are unique ...

IN THE CZECH REPUBLIC
- in having adopted a specific form of **project-oriented education**
  - project education closely linked with practice and collaborating on solving current problems in the field of transportation
- in having set up several **unique scientific research facilities** since 1993

IN THE WORLD
- in offering a coherent **education study field** in intelligent transportation systems (**ITS**)
  - closely linked with practical applications
  - aimed not only at Czech students but also at **foreign students** at famous universities abroad (UAS Fachhochschule Technikum Wien, **Austria** and Linköping Universitet, **Sweden**)

Czech Technical University in Prague Faculty of Transportation Sciences, Konviktská 20, Prague 1, CZECH REPUBLIC, www.fd.cvut.cz
Faculty of Transportation Sciences

Faculty Departments

Department of Applied Mathematics
Department of **Transportation Systems**
Department of Applied Informatics in Transportation
Department of Languages and Humanities
Department of **Vehicle Technology**
Department of Logistics and Management of Transport
Department of Mechanics and Materials
Department of **Transport Telematics**
Department of **Air Transport**
Department of Forensic Experts in Transportation
Department of Security Technologies and Engineering
DEAN
prof. Dr. Ing. Miroslav SVÍTEK, dr. h. c.

VICE-DEANS

doc. Ing. Jiří ČARSKÝ, Ph.D.  
(for Education)

Ing. Bc. Petr KUMPOŠT, Ph.D.  
(for Development and Construction)

doc. Ing. Josef KOCOUREK, Ph.D.  
(for Science and Research)

doc. Ing. Ondřej PŘIBYL, Ph.D.  
(for Foreign Relations)

prof. Ing. Tomáš ZELINKA, CSc.  
(for Strategy and Public Relations)

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TECHNOLOGY IN TRANSPORTATION AND TELECOMMUNICATIONS

study fields:

- **BEZ** Security Technologies in Transportation
- **DOS** Transportation Systems and Technology
- **ITS** Intelligent Transport Systems
- **LED** Air Transport
- **LOG** Logistics and Transport Processes Control
- **PIL** Professional Pilot
- **TUL** Technology of Aviation Maintenance
Faculty of Transportation Sciences

Master's Degree Programme

TECHNOLOGY IN TRANSPORTATION AND TELECOMMUNICATIONS

study fields:

BT  Security Technologies in Transportation
DS  Transportation Systems and Technology
IS  Intelligent Transport Systems
LA  Logistics and Transport Processes Control
PL  Air Traffic Control and Management
TR  Transportation and Logistic Systems
Faculty of Transportation Sciences

Doctoral Degree Programme

TECHNOLOGY IN TRANSPORTATION AND TELECOMMUNICATIONS study fields:

T  Technology and Management in Transportation and Telecommunications
D  Transportation Systems and Technology
P  Air Traffic Control and Management Logistics

LOGISTICS study field:

L  Transportation Logistics

ENGINEERING INFORMATICS study field:

I  Engineering Informatics of Transportation and Communication
INTELLIGENT TRANSPORT SYSTEMS (ITS)

- as **single degree** field of study
- as **Joint-degrees** field of study offering students the possibility to obtain **diploma also from the foreign university** – with partner universities in:
  - Austria (University of Applied Sciences Fachhochschule Technikum Wien)
  - Sweden (Linköping Universitet)

- ITS **integrate information and telecommunication technologies with transport engineering** in order to achieve:
  - better transport systems efficiency
  - lower travel times & higher safety and security
  - reduction of environmental impacts & increase in passenger comfort
TRANSPORTATION AND LOGISTIC SYSTEMS

- **jointly offered by:**
  - Czech Republic (Czech Technical University in Prague Faculty of Transportation Sciences)
  - Slovakia (UNIZA – University of Žilina)
  - USA (UTEP – University of Texas at El Paso)

- **students enrolled to spend:**
  - 1st year of their master’s curriculum in European Union
  - 2nd year of their master’s curriculum in United States of America

- **upon graduation students are awarded 2 master’s degrees and 2 diplomas:**
  - from USA (UTEP – University of Texas at El Paso)
  - from Czech Republic (CTU in Prague)
TRANSPORTATION AND LOGISTIC SYSTEMS

- field of study **Transportation and Logistic Systems** provides solid starting point for a successful international career:
  - Transportation companies in European Union or USA
  - Government offices on both sides of the Atlantic
  - Industries operating in European Union and USA
  - International companies providing expert services
  - Research laboratories (private or public)
Faculty of Transportation Sciences

_**Project-oriented education**_

- in having **set up** several unique **scientific research facilities since 1993**, where we have been providing **project education closely linked with practice** and collaborating on solving current problems in transportation
- to see all our current project, please visit web site: [https://www.fd.cvut.cz/english/for-students/projects-search.html](https://www.fd.cvut.cz/english/for-students/projects-search.html)
Faculty of Transportation Sciences

Department of Transportation Systems

- designing and planning of all types of transportation infrastructure
- traffic calming on roads
- traffic modelling
- integration, networks and operation of public transport systems
- relationship between transport and environment
- optimization range and quality of transport infrastructure of railways
targets of scientific activities are:
- optimization of transport services areas and transition linkages of public mass transportation
- planning and evaluating the effectiveness of transportation systems (evaluation methods)
- qualitative and quantitative risk analysis
- auditing services and road safety analysis

various transport occupations in passenger and freight transport
- transport impacts on land-use planning
- development of settlements
scientific activities based on:
- passive and active safety improvement
- testing and measurement of safety parameters of cars
- real vehicle crash testing using EEC methodology

in the scope of the research there is also testing and design of various assistive vehicle technologies, their interfaces, and ADAS and/or IVIS in-car systems

the Driving Simulation Research Group
- the human-machine interaction research
- development and utilization of interactive advanced vehicle simulators
the experiments and research activities are made to meet the requirements of industrial partners (Škoda Auto, Volkswagen, ... etc.) and state administrations

performed in accordance with the most recent scientific developments
main areas of research interest are:
- traffic control and modelling
- the identification and navigation systems
- the ticketing and information systems
- the co-operative systems
- the safety and reliability of telematics systems
- rail interlocking
- traffic data collection and processing
- the electromobility
- the satellite technology and many others

department consists of several specialised laboratories, e. g.:
- Laboratory of System Reliability
- Laboratory of Telematics
- Laboratory of Traffic Control and Modelling
prepare graduates for the many career opportunities within the aviation industry
- as well as for becoming a commercial pilot
graduates have the widest possible range of career within the aircraft industry
pilot training provides 1st stepping stone for:
- commercial pilot
- military pilot
co-operations within the CESAer project
- which in part is the reciprocal exchange of PhD and master students within the Canada – EU
project aimed as well as at cosmic technologies and aircraft construction
MEPS – Middle European Project Seminar

- International Student Traffic Engineering Project Seminar for students from:
  - Czech Technical University in Prague (Czech Republic)
  - Budapest University of Technology and Economics (Hungary)
  - Vienna University of Technology (Austria)

- Representatives of organizing town in co-operation with traffic experts prepare various tasks for students, referring to general traffic solution of town:
  - Traffic safety
  - Organization of public transport
  - General traffic organization and layout
  - Design of crossroads and traffic lights
  - Problems of pedestrians and cyclists

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MEPS – Middle European Project Seminar

- students are divided to the **groups**, put together **from all 3 nations**
- students can train and **improve** their knowledge of **foreign language** and get **experience** in various methods of **work used abroad**
since 2015 our Faculty organizes **annual international** IEEE scientific symposium titled “**Smart Cities Symposium Prague**”

- more than 50 state-of-the-art presentations on the **topics** of:
  - development of **sustainable transportation**
  - scientific approach to the design of **intelligent transportation networks**
  - alternative **energy** sources
  - as well as **social dimension of mass migration** into EU member states and North America
Faculty of Transportation Sciences

Information on applying for studies

Website in English:
https://www.fd.cvut.cz/english

What to study?

- for information about the study fields in English choose
  Current Students ⇒ Study Programmes

- for information about English courses within study fields choose
  Current Students ⇒ Courses
Website in English: https://www.fd.cvut.cz/english

Entrance procedure:
- for information about entrance procedure and conditions of acceptance choose International Applicants ⇒ Entrance Procedure
Faculty of Transportation Sciences

Information on applying for studies

Website in English:

https://www.fd.cvut.cz/english

Who can help or advice you?

- with difficulties of **entrance procedure**, organization of **entrance exams** and **Master’s degree** study:
  
  **Mrs. Eva Vicenová**

  viceneva@fd.cvut.cz  ●  +420 224 359 542  ●  +420 224 359 540

- with **Bachelor’s degree** study focused on **aviation** disciplines:

  **Petr Mrázek, MSc PhD**

  mrazek@fd.cvut.cz  ●  ato@fd.cvut.cz  ●  +420 777 614 368
Website in English:
https://www.fd.cvut.cz/english

How and where to apply for studies?

- **deadline** for application is **31st March** !!!
  - for application for future (oncoming) academic year

- **necessary** to submit of a completed **electronic application form**:
  [https://prihlaska.cvut.cz](https://prihlaska.cvut.cz)

- **send** their **applications** for studies **by e-mail** to viceneva@fd.cvut.cz
  in electronic **format *.pdf**,
  - which will be **generated** after completing and closing the **electronic application form**
  from the internet address [https://prihlaska.cvut.cz](https://prihlaska.cvut.cz)
Faculty of Transportation Sciences

Information on applying for studies

Website in English:
https://www.fd.cvut.cz/english

General contacts:

- **Dean** of the Faculty: 
  prof. Dr. Ing. Miroslav Svítek, dr. h. c.
  svitek@fd.cvut.cz  ●  + 420 224 359 512

- **Dean's Secretary**: 
  Mrs. Zdenka Osifová
  osifova@fd.cvut.cz  ●  + 420 224 359 502

- **Head of the Study Department**: 
  Mrs. Alena Krčálová
  krcalova@fd.cvut.cz  ●  + 420 224 359 502
characteristic feature of our times is the ever-increasing demand for transport

transportation is a typical multidisciplinary environment to acquire knowledge from a number of areas and to learn how to put it all together

our students are systematically led toward studying transportation with the aid of systems engineering instruments

demand for transportation is closely dependent on urban planning, on the location of production plants, schools, etc.
also requires some knowledge of psychology, sociology and law

at the same time logistics is closely linked with the principles of economics and management

a successful graduate of our faculty should be able to combine all of this knowledge to work on projects that have a long-term effect on the whole of society