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 Tomas Bata University in Zlín

*Annual Report*

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**2004**

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*Annual Report 2004*

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# 1. Introduction

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*...The student body continued to increase during the 2004 academic year...*

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This annual report presents the activities of Tomas Bata University in Zlín (TBU) during its fourth year of existence.

The student body continued to increase during the 2004 academic year. There were 7,388 students enrolled in 26 accredited programmes and in 53 study fields. The study programmes offered at the University had steadily grown since its inception in 2000. The Faculty of Technology now offers Chemistry and Food Technology in its bachelor study programme (full-time form of studies) at their campus in Kroměříž. There are joint bachelor programmes between the Faculty of Management and Economics and Tomas Bata Business Academy and the Higher Professional School of Business, Zlín, focusing on Marketing and Financial Management and Enterprises (full-time and combined form of studies), Public Economics and Administration (full-time form of studies). Fine Arts is a new bachelor programme in the Faculty of Multimedia Communications. The programme specializes in Animated Film and is realized in conjunction with the Higher Professional Film School in Zlín.

Nursing, with concentrations in General Nurse and Midwifery, is a programme recently established at the University Institute in conjunction with the Higher School of Health Care Studies in Zlín. Philology (with the study field Management English) was approved as an accredited programme and courses will begin in the 2005/6 academic year. There are more study opportunities in the area of long-term education and the University of the Third Age started its classes in its third, Fine arts cycle. The Academic Counseling Centre was established to provide counseling to students and employees.

One of the University's greatest accomplishments has been in Investment and Development. A new university complex, consisting on classrooms, laboratories, study areas, sport facilities and cafeteria, was opened in Jižní Svahy in Zlín. It is used mainly by 1,500 students of the Faculty of Technology.

In addition preliminary work has begun on the Congress and University Centre Buildings. A new multimedia language facility was opened in the building on Mostní Street as well as new laboratories for the Faculty of Technology (for the study programme Chemistry and Food Technology) in the building at T. G. Masaryka square. A new internet study room designated for Senior's has been established as well as a Business Incubator, supporting small and medium size firm foundations, at a campus in Růmy. Preparatory activities continue for the fourth faculty in applied informatics and fifth faculty in humanities.

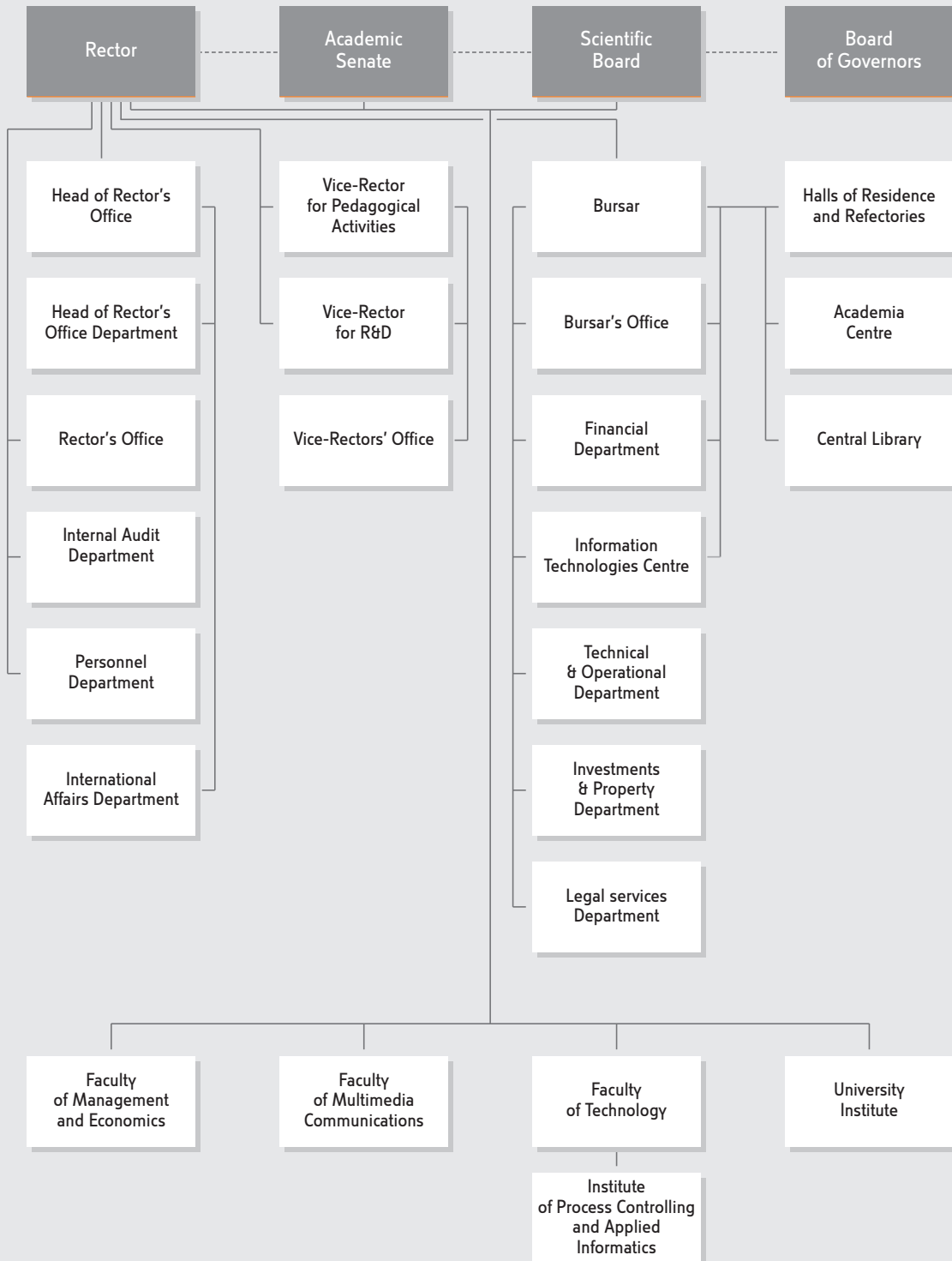


Prof. Ing. Petr Sába, CSc.

Rector

## 2. University Organizational Structure

### 2.1 Structure of the University and its Components





## 3. Composition and Activities of the University Body

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### 3.1 Board of Governors

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#### Chairperson

Tomáš BAŤA, dr. h. c.

*Bata Ltd., Toronto, Canada*

#### Vice-Chairperson

PhDr. Zdeněk DOSTÁL

Ing. Michaela ŠOJDROVÁ

*Mayor of Zlín 1998–2002*

*Member of the Committee for Science, Education, Culture, Youth and Sports, Parliament of the Czech Republic, Chamber of Deputies*

#### Members

Ing. Eduard JANOTA

Ing. Josef KUBÍČEK

Mgr. Irena ONDROVÁ

Mgr. Václav PÍCL

František SLAVÍK

Doc. Ing. Jiří VOLF, CSc.

*First Deputy Minister, Ministry of Finance, Czech Republic*

*Bursar, Charles University, Prague*

*Deputy Mayor; Statutory City of Zlín*

*First Deputy Minister, Ministry of Education, Youth and Sports, Czech Republic Governor of the Zlín Region (till November 06, 2004)*

*Deputy Minister, Ministry of Finance, Czech Republic*

#### Secretary of the Board

Ing. Andrea KADLČÍKOVÁ

*Head of Rector's Office*

### 3.2 Scientific Board

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*(data till September 21, 2004)*

#### Chairperson

Prof. Ing. Petr SÁHA, CSc.

*Rector, Tomas Bata University in Zlín*

#### External Members

Prof. Ing. Ferdinand DEVÍNSKY, DrSc., dr. h. c.

Prof. Milan KNÍŽÁK, Dr.A.

Prof. Ing. Vladimír KUČERA, DrSc.

Prof. Ing. Miroslav LUDWIG, CSc.

Prof. RNDr. Milan MAREŠ, DrSc.

*Comenius University, Bratislava, Faculty of Pharmacy*

*General Manager, National Gallery, Prague*

*Dean, Czech Technical University in Prague, Electro-Technical Faculty*

*Rector, University of Pardubice*

*Director, Academy of Sciences of the Czech Republic, Prague,*

*Department of the Information Theory and Automation*

*Executive, Barum Continental, Otrokovice*

*University of Pardubice*

*Vice-Rector, Technical University in Brno*

*General Manager, Slovácké strojířny, Uherský Brod*

*Masaryk University in Brno, Philosophical Faculty*

*Dean, Technical University in Brno, Faculty of Fine Arts*

*Director, Academy of Sciences of the Czech Republic, Prague,*

*Institute of Macromolecular Chemistry*

*Rector Emeritus, Technical University in Brno*

*Rector, Technical University in Brno*

*Executive and General Manager, East Markets Ltd.,*

*Member of the Division TAŤMAC-ZPS, Zlín*

Prof. Ing. Petr VAVŘÍN, DrSc.

Prof. RNDr. Ing. Jan VRBKA, DrSc.

Ing. Radomír ZBOŽÍNEK

## Internal Members

Prof. Ing. Vladimír BOBÁL, CSc.	<i>Vice-Rector for R &amp; D</i>
Doc. RNDr. Jiří DOSTÁL, CSc.	<i>Vice-Dean for the Bachelor Studies, Faculty of Technology</i>
Prof. Ing. Petr DOSTÁL, CSc.	<i>Head of the Department of Control of Technological Processes, Institute of Process Controlling and Applied Informatics, Faculty of Technology</i>
Doc. PhDr. Ing. Aleš GREGAR, CSc.	<i>Vice-Rector for the Pedagogical Activities</i>
Prof. Ing. Antonín KLÁSEK, DrSc.	<i>Faculty of Technology</i>
Prof. Ing. Lubomír LAPČÍK, DrSc.	<i>Vice-Dean for R&amp;D, International Relations and Doctoral Studies</i>
Ing. Alena MACHÁČKOVÁ, CSc.	<i>Faculty of Technology</i>
Doc. Jan MEISNER, MFA	<i>Chairperson, TBU Academic Senate</i>
Prof. Ing. Zdeněk MOLNÁR, CSc.	<i>Head of the Design Studio, Faculty of Multimedia Communications</i>
Doc. PhDr. Vnislav NOVÁČEK, CSc.	<i>Head of the Department of Informatics and Statistics, Faculty of Management and Economics</i>
Doc. PhDr. Dušan PAVLŮ, CSc.	<i>Dean, Faculty of Management and Economics</i>
Doc. Ing. Roman PROKOP, CSc.	<i>Faculty of Multimedia Communications</i>
Prof. PhDr. Vlastimil ŠVEC, CSc.	<i>Vice-Dean for Pedagogical Activities of Master and Doctoral Studies, Faculty of Technology</i>
Prof. Ing. František TRNKA, CSc.	<i>Head of the Department of Pedagogical Sciences, University Institute</i>
Prof. Ing. Vladimír VAŠEK, CSc.	<i>Faculty of Management and Economics</i>
	<i>Head of the Institute of Process Controlling and Applied Informatics, Faculty of Technology</i>

The scientific board met once during the 2004 academic year. The meeting was held on February 18, 2004. The researchers of scientific projects were informed about the results acquired during 2003. The intended scientific projects beginning January 01, 2005 were discussed, as well as the intended guidelines for the habilitation process and the professor procedure. In April 2004, the board members were asked for a correspondence answer dealing with the Update of the Long-Term Aims of the TBU in Zlín for 2005.

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*data from September 21, 2004*

## Chairperson

Prof. Ing. Petr SÁHA, CSc.	<i>Rector, Tómas Bata University in Zlín</i>
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## External Members

Prof. Ing. Ferdinand DEVÍNSKY, DrSc., dr. h. c.	<i>Comenius University, Bratislava, Faculty of Pharmacy</i>
Prof. Ing. Vladimír KUČERA, DrSc.	<i>Dean, Czech Technical University in Prague, Electro-technical Faculty</i>
Prof. Ing. Miroslav LUDWIG, CSc.	<i>Rector, University of Pardubice</i>
Prof. RNDr. Milan MAREŠ, DrSc.	<i>Director, Academy of Sciences of the Czech Republic, Prague,</i>
	<i>Department of the Information Theory and Automatization</i>
Ing. Leoš NOVOTNÝ	<i>General Director of HAMÉ, a. s.</i>
Ing. Pavel PRAVEC	<i>Executive, Barum Continental, Otrokovice</i>
Doc. Ing. Josef PRŮŠA, CSc.	<i>Rector, University of Western Bohemia, Plzeň</i>
Prof. Ing. Oldřich PYTELA, DrSc.	<i>University of Pardubice</i>
Ing. Jiří ROSENFELD, CSc.	<i>General Manager, Slovácké strojírný, Uherský Brod</i>
Prof. PhDr. Lubomír SLAVÍČEK, CSc.	<i>Masaryk University in Brno, Philosophical Faculty</i>
Prof. PhDr. Jan SEDLÁK, CSc.	<i>Dean, Technical University in Brno, Faculty of Fine Arts</i>
Doc. PaedDr. Iva STUHLÍKOVÁ, CSc.	<i>Vice-Dean, University of Southern Bohemia, České Budějovice,</i>
	<i>Pedagogical Faculty</i>
Prof. Ing. Gustav TOMEK, DrSc.	<i>Czech Technical University in Prague</i>
Doc. Ing. Karel ULBRICH, DrSc.	<i>Director, Academy of Sciences of the Czech Republic, Prague,</i>
	<i>Institute of Macromolecular Chemistry</i>
Prof. Ing. Petr VAVŘÍN, DrSc.	<i>Rector Emeritus, Technical University in Brno</i>
Prof. RNDr. Ing. Jan VRBKA, DrSc.	<i>Rector, Technical University in Brno</i>
Doc. Ing. Juraj WAGNER, Ph.D.	<i>Rector, Technical University in Trenčín</i>

### Internal Members

Doc. Ing. Roman BOBÁK, Ph.D.	<i>Vice-Dean, Faculty of Management and Economics</i>
Prof. Ing. Vladimír BOBÁL, CSc.	<i>Faculty of Technology</i>
Prof. Ing. Ignác HOZA, CSc.	<i>Faculty of Technology</i>
Doc. PhDr. Ing. Aleš GREGAR, CSc.	<i>Vice-Dean, Faculty of Management and Economics</i>
Prof. Ing. Lubomír LAPČÍK, DrSc., dr. h. c.	<i>Vice-Dean, Faculty of Technology</i>
Ing. Alena MACHÁČKOVÁ, CSc.	<i>Chairperson, Academic Senate TBU</i>
Prof. Ing. Miroslav NEJEZCHLEBA, CSc.	<i>Faculty of Management and Economics</i>
Doc. PhDr. Vnislav NOVÁČEK, CSc.	<i>Dean, Faculty of Management and Economics</i>
Doc. Dr. Ing. Drahomíra PAVELKOVÁ	<i>Vice-Rector for R&amp;D</i>
Doc. PhDr. Dušan PAVLŮ, CSc.	<i>Faculty of Multimedia Communications</i>
Prof. Ing. Roman PROKOP, CSc.	<i>Vice-Rector for Pedagogical Activities</i>
Ing. Jaroslav SVĚTLÍK, Ph.D.	<i>Vice-Dean, Faculty of Multimedia Communications</i>
Prof. Ing. Josef ŠIMONÍK, CSc.	<i>Dean, Faculty of Technology</i>
Prof. Pavel ŠKARKA, MFA	<i>Dean, Faculty of Multimedia Communications</i>
Prof. PhDr. Vlastimil ŠVEC, CSc.	<i>Head of the Department of Pedagogical Sciences, University Institute</i>
Prof. Ing. František TRNKA, CSc.	<i>Faculty of Management and Economics</i>
Prof. Ing. Vladimír VAŠEK, CSc.	<i>Head of the Institute of Process Controlling and Applied Informatics, Faculty of Technology</i>

This Scientific Board of TBU met once, on November 09, 2004. The main focus of the meeting was the procedure for professor pronouncement of Doc. RNDr. Miroslav Raab, CSc. Based on a secret vote, the proposal was processed for further discussion at the Ministry of Education, Youth and Sports of the Czech Republic.

### 3.3 Academic Senate

*Till March 09, 2004 (the first functional period)*

#### Chairperson

Ing. Alena MACHÁČKOVÁ, CSc.

#### Vice-Chairperson

Ing. Pavel ROSMAN

Bc. Daniel REMEŠ

*Vice-chairperson, Chair of the Chamber of Academic Staff Members*

*Vice-chairperson, Chair of the Student Chamber*

#### Academic Staff Members

Ing. Zuzana DOHNALOVÁ, PhD.

PhDr. Magda GREGAROVÁ

Ing. Rahula JANIŠ, CSc.

MgA. Jana JANÍKOVÁ, ArtD.

Ing. Vratislav KOZÁK, Ph.D.

Mgr. Pavel KRUTIL

PhDr. Ivan KULHÁNEK, CSc.

Mgr. Zdeněk MELICHÁREK

Doc. Dr. Ing. Vladimír PAVLÍNEK

Ing. Tomáš SYSALA, Ph.D.

#### Students

Ondřej CARDA

Ing. Petr FOLTÝN

Ing. Petr KUBÍČEK

Ing. Jiří VERBERGER

Bc. Michal ZÁVACKÝ

### **Chairperson**

Ing. Alena MACHÁČKOVÁ, CSc.

### **Vice-Chairperson**

Ing. Zuzana DOHNALOVÁ, Ph.D.

Bc. Daniel REMEŠ

*Vice-chairperson, Chair of the Chamber of Academic Staff Members*

*Vice-chairperson, Chair of the Student Chamber*

### **Academic Staff Members**

PhDr. Magda GREGAROVÁ

Prof. Ing. Ignác HOZA, CSc.

Mgr. Štefan CHUDÝ

Rostislav ILLÍK, MFA

Mgr. Alena KOLČAVOVÁ

Ing. Vratislav KOZÁK, Ph.D.

Mgr. Pavel KRUTIL

Ing. Anežka LENGÁLOVÁ, Ph.D.

Doc. Dr. Ing. Vladimír PAVLÍNEK

Mgr. Štěpán PRACHAŘ

Ing. Zdeněk RAŠKA

Ing. Tomáš SYSALA, Ph.D.

### **Students**

Bc. Romana BARTOŠÍKOVÁ

Michal BLAHA

Radek HABADA

Petr HÁJEK

Rudolf KOUKOL

Zuzana PERNICOVÁ

Ing. Martin PROCHÁZKA

Academic Senate of TBU, with members of the first functional period, met four times and the Academic Senate passed the TBU Budget Rules for the year of 2004, the TBU Budget for the year 2004 – the first part, and then the first changes for the TBU salary rules. On March 2, 2004 they introduced the election of candidates for the Rector's office.

On February 25–27, 2004, there were elections at the Faculty of Technology, Faculty of Management and Economics, Faculty of Multimedia Communications, and the University Institute for the TBU Academic Senate. The elections were valid in their first circulation due to the high attendance of voters.

The founding meeting of the TBU Academic Senate for the second functional period (2004–2007) was held on March 9, 2004. 22 members started their functional Senate period by the pledge. Each faculty is represented by four academic staff members and two students; the University Institute is represented by two academic staff members and two students. During the first meeting, elections for chair and vice-chairpersons were held.

During a regular meeting on March 30, 2004, members of the TBU Academic Senate voted for the candidate for the rector's office. Prof. Ing. Petr Sába, CSc. was re-elected for the 2004–2007 functional period.

Besides the founding meeting, there were 11 regular meetings of the TBU Academic Senate in two functional periods. During these meetings the Academic Senate discussed and passed the University Annual Report for the 2003 year, the Economic Annual Report of TBU, the Update of the Long-Term Aims of TBU for the 2005 year and the TBU Budget for the year of 2004 – second part. Then, it also passed the rector's proposal for the new members of the TBU Scientific Board naming. The Senate also passed the rector's proposal to name vice-rectors and to found the Technological Innovative Centre, Ltd. in cooperation with the Zlín Region.

In the legislative area, the TBU AS discussed and passed new versions of two TBU internal guidelines – the TBU Study and Exam Regulations, which regulate the study conditions in study programmes presented by the university, and the implementation of the study agenda STAG to the TBU and the TBU Scholarship guidelines. The proposal of the new TBU Status and the new internal guidelines Regulations for founding legislative persons and for monetary and non-monetary deposits into these TBU foundations.

Considering study programmes run by the TBU, the TBU AS discussed and passed the guidelines for the entrance exams and also the internal TBU norm complementing the TBU Study and Exam Regulations and guidelines.

The TBU AS also passed the Status of the University Institute, university department, which participates at the study programmes run directly by the TBU.

### 3.4 Other Components of the TBU

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#### **Rector**

Prof. Ing. Petr SÁHA, CSc.

#### **Bursar**

RNDr. Alexander ČERNÝ

#### **Management of the TBU**

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#### **Rector**

Prof. Ing. Petr SÁHA, CSc.

#### **Vice-Rectors**

Doc. PhDr. Ing. Aleš GREGAR, CSc.

*Vice-Rector for Pedagogical Activities, Statutory Deputy (till July 31, 2004)*

Prof. Ing. Roman PROKOP, CSc.

*Vice-Rector for Pedagogical Activities, Statutory Deputy (from August 1, 2004)*

Prof. Ing. Vladimír BOBÁL, CSc.

*Vice-Rector for R&D (till May 31, 2004)*

Doc. Dr. Ing. Drahomíra PAVELKOVÁ

*Vice-Rector for R&D (from June 1, 2004)*

#### **Bursar**

RNDr. Alexander ČERNÝ

#### **Chairperson of the TBU Academic Senate**

Ing. Alena MACHÁČKOVÁ, CSc.

#### **Faculty Deans**

Prof. Ing. Josef ŠIMONÍK, CSc.

*Faculty of Technology*

Doc. PhDr. Vnislav NOVÁČEK, CSc.

*Faculty of Management and Economics*

Prof. Pavel ŠKARKA, MFA

*Faculty of Multimedia Communications*

#### **Assigned Director of the University Institute**

Ing. Jitka CHUDAROVÁ

#### **Head of Rector's Office**

Ing. Andrea KADLČÍKOVÁ

#### **Rector's Advisory Council**

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#### **Rector**

Prof. Ing. Petr SÁHA, CSc.

#### **Vice-Rectors**

Prof. Ing. Roman PROKOP, CSc.

*Vice-Rector for Pedagogical Activities, Statutory Deputy*

Doc. Dr. Ing. Drahomíra PAVELKOVÁ

*Vice-Rector for R&D*

#### **Bursar**

RNDr. Alexander ČERNÝ

#### **Chairperson of the TBU Academic Senate**

Ing. Alena MACHÁČKOVÁ, CSc.

### **Faculty Deans**

Prof. Ing. Josef ŠIMONÍK, CSc.  
Doc. PhDr. Vnislav NOVÁČEK, CSc.  
Prof. Pavel ŠKARKA, MFA

*Faculty of Technology*  
*Faculty of Management and Economics*  
*Faculty of Multimedia Communications*

### **Appointed Director of the University Institute**

Ing. Jitka CHUDAROVÁ

### **Head of Rector's Office**

Ing. Andrea KADLČÍKOVÁ

### **Head of the Personnel Department**

Bc. Renata BARTOŠOVÁ

### **Director of the Information Technologies Centre**

Mgr. Monika HRABÁKOVÁ

### **Department of the Internal Audit**

Ing. Lenka PUCHTOVÁ

### **Director of the Central Library**

Jarmila TRNČÁKOVÁ

### **Director of the Hall of Residence and Refectories**

Ing. Josef ZELA

### **Chair of the TBU AS Student Chamber**

Ing. Daniel REMEŠ

## **3.5 Representatives of the TBU in the Council of Universities and Colleges**

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Ing. Alena MACHÁČKOVÁ, CSc.  
Prof. Ing. Jaroslav BALÁTĚ, DrSc.  
Bc. Jan HANÁK  
Tomáš KARLÍK

*The Board of Directors of the Council*  
*The Assembly of the Council*  
*The Student Chamber of the Council*  
*The Student Chamber of the Council (stand-by)*



## 4. Study and Pedagogical Activities

### 4.1 Study Programmes

During 2004, TBU offered full-time and combined form of studies of bachelor, master and doctoral study programmes in natural sciences, technical sciences, humanities, economics, pedagogy, visual arts, and health care. All together, the university offered 53 study courses in 26 accredited study programmes. All study programmes

were accredited and re-accredited in accordance with the Bologna Declaration, which is continuous two and three level studies of bachelor, master, and doctoral degrees. (3 + 2 + 3).

There are still continuing two 5-year master study programmes at the Faculty of Technology.

#### Number of Study Programmes and Courses at TBU

Table No. 1 Course Groups	Course Group Codes	Study Programmes/Courses				Total No. of Study Programmes/Courses
		Bc.	MA/MS	MA/MS cont.	Dr.	
Natural Sciences	11-18	0/1		0/1		0/2
Technical Sciences	21-39	5/8	2/8	5/13	2/2	14/31
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53	1/2				1/2
Social Sciences and Services	61, 65, 67, 71-74	2/2		1/1		3/3
Economics	62	2/6	1/1	2/5	1/1	6/13
Law, Public Administration	68					
Pedagogy, Social Care	75	2/2				2/2
Psychological Sciences	77					
Culture and Art Studies	81, 82					
<b>Total</b>	<b>11-82</b>	<b>12/21</b>	<b>3/9</b>	<b>8/20</b>	<b>3/3</b>	<b>26/53</b>

### 4.2 Study Programmes Guaranteed by TBU and Implemented by Higher Schools/Colleges

Students interested in economics may study a joint bachelor programme taught by TBU and Tomas Bata Business Academy and the Higher Professional School of Business Zlín. The offered study courses are Marketing and Financial Management of Enterprises in full-time and combined study form and Public Economics and Administration in full-time study form. Students interested in Shoemaking Technology may study a joint bachelor programme in

Chemistry and Materials Technology taught by TBU and Tomas Bata Business Academy and the Higher Professional School of Business in Zlín, in full-time study form. In cooperation with the Higher Professional Film School in Zlín, a new bachelor study programme Fine Arts, course Multimedia and Design - specialization Animated Film, was accredited at the Faculty of Multimedia Communications.

### 4.3 Study Programmes Taught Outside of the University Campus



The full-time bachelor studies in the programmes of Process Engineering and Engineering Informatics is taught at the TBU off-site campuses in Vsetín and in

Přerov. The study course Social Pedagogy of the bachelor study programme Pedagogy is taught in combined study form in cooperation with The Institute of Interdisciplinary Studies in Brno. The new studies of bachelor study programme Chemistry and Food Technology in full-time form of study started in Kroměříž.

TBU is enlarging the health care study programme in cooperation with the Higher School of Health Care Studies, offering the study courses in General Nurse and Midwifery.

## 4.4 The Usage of the Credit System

At TBU, all study programmes use a unified credit system that is fully compatible with the European ECTS system. The basic characteristics of the unified credit system are as follows:

- one credit represents 1/60 of the average annual study load for the standard length of studies,
- each subject is allocated a number of credits that reflect the relative degree of student study load required for the successful completion of a given subject,
- upon successful completing of the course, a student obtains the number of credits allocated to the particular course/subject,
- credits obtained during one study programme add up,

- the number of obtained credits serves as a tool for the controlling and checking the progress during studies.

This credit system, together with good language skills of the students, are considered to be one of the essential conditions for the university entry into the European Student Mobility Programme and into the European educational system and environment. The evaluation system of the ECTS was accepted during 2004. Also, the ECTS booklet and its translation were finished, in order to be in the system of universities that offer studies in the European educational environment. The booklet was published on the TBU web site and sent into the Socrates national agency.

## 4.5 Lifelong Learning Programmes

After the enlargement of other study possibilities at TBU, there were new courses of lifelong education in the accredited study programmes Economics and Management and Economic Policy and Administration in bachelor and master studies opened during 2004. The classes are offered in cooperation with the School Open Foundation in Žiar nad Hronom, Slovakia.

The Faculty of Technology offers Completing Pedagogy

Study or certified courses of Informational Literacy, which is offered by the Institute of Process Controlling and Applied Informatics.

The University Institute offers Teaching of Informatics for Elementary and High Schools (in their lifelong learning programme).

There are also several short term courses for firms and public offered.

### Number of Lifelong Learning Programmes

Course Groups	Course Group Codes	Accredited Lifelong Learning Study Programmes		Others	Total
		Free of Charge	Tuition		
Natural Sciences	11-18				
Technical Sciences	21-39			1	1
Agricult., Forestry and Veter. Sciences	41-43				
Health Care, Med. and Pharm. Sciences	51-53				
Social Sciences and Services	61, 65, 67, 71-74			1	1
Economics	62		2	2	4
Law, Public Administration	68				
Pedagogy, Social Care	75			2	2
Psychological Sciences	77				
Culture and Art Studies	81, 82			1	1
<b>Total</b>	<b>11-82</b>		<b>2</b>	<b>7</b>	<b>9</b>





## Number of Attendants in Lifelong Learning Programmes at TBU

Course Groups	Course Group Codes	Accredited Lifelong Learning Study Programmes		Others	Total
		Free of Charge	Tuition		
Natural Sciences	11-18				
Technical Sciences	21-39			62	62
Agricult., Forestry and Veter. Sciences	41-43				
Health Care, Med. and Pharm. Sciences	51-53				
Social Sciences and Services	61, 65, 67, 71-74			107	107
Economics	62		130	110	240
Law, Public Administration	68				
Pedagogy, Social Care	75			141	141
Psychological Sciences	77				
Culture and Art Studies	81, 82			46	46
<b>Total</b>	<b>11-82</b>		<b>130</b>	<b>466</b>	<b>596</b>

### 4.6 University of the Third Age

The Lifelong Learning Programme also includes programmes of the University of the Third Age – designed for senior citizens. Four-semester studies continued in two study programmes: Social Sciences, Technology and Economics. As a new one was opened Fine Arts course. There

are 289 students of the University of the Third Age. Due to a very high interest in these studies, there was opened a new off-campus site in Vsetín. There are three more rounds of four-semester cycles prepared. A new internet classroom for senior citizens was established during 2004.

### 4.7 Applicant Interest in Studying at the TBU

Course Groups	Course Group Codes	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Accepted <sup>4)</sup>	Registered <sup>5)</sup>
Natural Sciences	11-18	503	503	485	485	277
Technical Sciences	21-39	1,685	1,685	1,335	1,335	1,061
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53	222	222	60	60	60
Social Sciences and Services	61, 65, 67, 71-74	420	420	226	226	216
Economics	62	3,652	3,652	1,339	1,339	1,290
Law, Public Administration	68					
Pedagogy, Social Care	75	2,382	2,382	635	635	579
Psychological Sciences	77					
Culture and Art Studies	81, 82	730	730	176	176	168
<b>Total</b>	<b>11-82</b>	<b>9,594</b>	<b>9,594</b>	<b>4,256</b>	<b>4,256</b>	<b>3,651</b>

#### Commentary:

- <sup>1)</sup> Total number of application received.
- <sup>2)</sup> Number of applicants for studying. The figures express the number of individuals, the study courses totals include multiple applications (students applying for more than one course).
- <sup>3)</sup> The number of applications positively responded to.
- <sup>4)</sup> The number of applicants accepted for studying. The figures express the total number of individuals, the study courses totals include applicants accepted to more than one course.
- <sup>5)</sup> The number of accepted students who registered for studies.

The total number of applications received by TBU was 9,594 in 2004. After the entrance exams and tests, there were 3,651 students accepted and registered for studying at TBU, it is 38% of all interested applicants. The interest in individual study courses varies. The highest number of applications was received by economical courses at the Faculty of Management and Economics. 1,290 applicants ( 35% of all applicants) out of 3,652 all applicants were registered for studies.

1,346 applicants (61% of all applicants) out of 2,198 all applicants were registered at the Faculty of Technology. 384 applicants (33% of all applicants) out of 1,150 all applicants were registered at the Faculty of Multimedia Communications.

631 applicants (24% of all applicants) out of 2,594 all applicants were registered at the University Institute. All faculties aim to accept and register top-quality applicants. In order to achieve this objective, the university maintains direct contacts with selected high schools, regularly organizes Open Door Days, attends the tertiary education fair trade Gaudeamus in Brno (October 2004).

TBU attended this fair trade for the fourth time as an independent university. The TBU presentation was evaluated as highly beneficial for increasing the awareness of the students about the University, and for gaining a number of applicants for studying at TBU.

## 4.8 Numbers of TBU Students

There are 7,388 registered students in full-time and combined form of studies at three faculties and the University Institute in the 2004/5 academic year. There are 2,358 students in technical sciences, 2,888 students in economic sciences, 499 students in social sciences,

1,274 in pedagogy, 309 in fine arts, and 60 students in nursing. In the bachelor degree, there were 5,736 students, in the master degree 1,401 students and 251 in the doctoral degree. There were 380 students out of the total number from abroad, including Slovakia.

### Number of TBU Students

Table No. 5 Course Groups	Course Group Codes	Study Programmes/Courses				Total
		Bc.	MA/MS	MA/MS cont.	Dr.	
Natural Sciences	11-18	435		35		470
Technical Sciences	21-39	1,424	83	221	160	1,888
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53	60				60
Social Sciences and Services	61, 65, 67, 71-74	286		213		499
Economics	62	2,024	21	752	91	2,888
Law, Public Administration	68					
Pedagogy, Social Care	75	1,260		14		1,274
Psychological Sciences	77					
Culture and Art Studies	81, 82	247		62		309
<b>Total</b>	<b>11-82</b>	<b>5,736</b>	<b>104</b>	<b>1,297</b>	<b>251</b>	<b>7,388</b>



## Number of International Students, Including Students from Slovakia

Table No. 6

Course Groups	Course Group Codes	Study Programmes/Courses				Total
		Bc.	MA/MS	MA/MS cont.	Dr.	
Natural Sciences	11-18	18		5		23
Technical Sciences	21-39	120	11	7	11	149
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53					
Social Sciences and Services	61, 65, 67, 71-74	24		5		29
Economics	62	106		56		162
Law, Public Administration	68					
Pedagogy, Social Care	75	1				1
Psychological Sciences	77					
Culture and Art Studies	81, 82	14		2		16
<b>Total</b>	<b>11-82</b>	<b>283</b>	<b>11</b>	<b>75</b>	<b>11</b>	<b>380</b>

## 4.9 Number of TBU Graduates

Table No. 7

Course Groups	Course Group Codes	Study Programmes/Courses				Total
		Bc.	MA/MS	MA/MS cont.	Dr.	
Natural Sciences	11-18	58				58
Technical Sciences	21-39	146	106	2	18	272
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53					
Social Sciences and Services	61, 65, 67, 71-74	89		52		141
Economics	62	435	10	194	8	647
Law, Public Administration	68					
Pedagogy, Social Care	75					
Psychological Sciences	77					
Culture and Art Studies	81, 82	31		17		48
<b>Total</b>	<b>11-82</b>	<b>759</b>	<b>116</b>	<b>265</b>	<b>26</b>	<b>1166</b>

## 4.10 Innovation of Current Study Programmes

During 2004 the current study programmes were innovated and updated and according to the market situation some of the study programmes were enlarged into full-time and combined form of studies.

In the study programme Chemistry and Materials Technology, the study course Shoe making and Technology,

the studies were prepared and started for the Vietnamese students.

Contacts were established with universities in Hanoi and Ho-Çi-Min City in order to enlarge the pedagogical and scientific cooperation, emphasizing the leather and plastic processing technologies.

## 4.11 New Bachelor, Master and Doctoral Study Programmes

A new study course, Security Technologies, systems and management, in the bachelor study programme was accredited, also in the same study programme of the continuing master programme study course Automation Control and Informatics both at the Faculty of Technology.

The study course Information Technologies was

enlarged by the combined form of studies. The accreditation was also enlarged by the combined form of bachelor study programme Process Engineering with the course Technological Equipment. Directly at TBU a new study programme Philology with the study course Management English was accredited.

## 4.12 New Tendencies in Preparation of Educational Workers at all Educational Levels

New tendencies in preparation of elementary and mainly high schools are one of the priorities of the TBU Long-Term Aims and Objectives, which is guaranteed by the Department of Pedagogical Studies (the University Institute) in cooperation with the Institute of Process Controlling and Applied Informatics. Since 2001 this priority was fulfilled at the pedagogical area, since 2003 it was enlarged into the scientific-research area. With the support of the Developmental Project of the Ministry of Education, Youth and Sports, there were new three-semester courses in Information Technologies for Qualified Teachers started (as a part of the lifelong education). The courses are devoted to information technologies, with emphasis on the usage of computers and technologies in the educational process. The course

is for qualified elementary and high school teachers, the graduates gain the ability to teach classes and courses connected to information technologies. This is with accordance to the law No. 139/1997 Col. of the Ministry of Education, Youth and Sports.

The course was accredited by the Ministry as a part of the Continuous Education of Educators during the year. During 2004 the university obtained the accreditation for the continuous master study courses Teaching of Informatics for Elementary and High schools (full-time form of studies). This study course is devoted to the interdisciplinary approach, tight connection between the theory and the practical part, and emphasizes the personal profile of future teachers, based on their independent cognitivity and self-reflexion.

## 4.13 Evaluation of the Study Courses Offer with the View of the Graduates Success at the Labour Market

The structure of the course offered in full-time and combined form as well as in the lifelong learning form at TBU reflects the needs of the labour market. The information of graduate work and success confirm that TBU graduates find appropriate jobs and positions in companies and institutions in the region, as well as in the whole Czech Republic.

## 4.14 New Forms of Study

See 5.3 Chapter E-learning, the TBU status quo and the development plan.

## 4.15 Number of Unsuccessful Students at TBU

Course Groups	Course Group Codes	Unsuccessful Students in Study Programmes				Total
		Bc.	MA/MS	MA/MS cont.	Dr.	
Natural Sciences	11-18					
Technical Sciences	21-39	495	5	13	16	529
Agricult., Forestry and Veter. Sciences	41-43					
Health Care, Med. and Pharm. Sciences	51-53					
Social Sciences and Services	61, 65, 67, 71-74	10		2		12
Economics	62	240		47		287
Law, Public Administration	68					
Pedagogy, Social Care	75	34				34
Psychological Sciences	77					
Culture and Art Studies	81, 82	10		6		16
<b>Total</b>	<b>11-82</b>	<b>789</b>	<b>5</b>	<b>68</b>	<b>16</b>	<b>878</b>

Note: Figures as on 31. 10. 2004 include all forms of study and all students, including foreign students.

## 4.16 Study Opportunities for Disabled Students

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In the TBU U2, U4, U5 buildings and sites, there are all necessary technical conditions for disabled students who can study there. The Faculty of Technology is currently preparing all the needed conditions for the integration of disabled students into the study programme Engineering Informatics.

## 4.17 "Joint Degrees" - Study Programmes Taught within the Framework of the International Universities Consortium

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The Faculty of Management and Economics continued their negotiation with the Huddersfield University Business School in Great Britain (HUBS). It is a joint study programme where TBU students, after finishing their first two years at TBU in Zlín, may study at the HUBS and finish their studies at the university when passing the bachelor exams and receiving the academic title BA (Hons) European Business.



## 5. Information and Communication Technologies

### 5.1 Newly Built-In Elements of the Information Infrastructure

TBU continuously pays a lot of attention to the development of information and communication technologies. The Information Technologies Centre is the responsible site for this task.

The TBU buildings and sites U1, U2, U3, U4, U6, U7, U12 and new ones including U5, U10, U11 are interconnected with fiber-optic cables with the capacity of 12 fibers MM (telecommunication network) and 8 fibers SM (data network). As a part of the project of the Foundation of the Development of Colleges and Universities: Enlargement of the optic spin network at the TBU in Zlín (1,299,000 CZK), there were new optic cables put into U10, U11 building/sites. Also, as a part of the project, the optic cable in U5, rooted in 2003, was finished. Local computer networks at U5, U10

were connected to the TBU spin network with the speed 1 Gbit/s. As a part of the U3 site reconstruction there was a new network of structured cable work (of the category 6) installed. As a part of the U5 building/site reconstruction at Jižní Svahy new networks of the structured cable work, (category 6) were developed.

There were 1,438 computers connected to the university network in educational complexes and sites in 2004 (U1-U5, U10). Over than 500 of these computers were in computer classrooms and internet study sites.

The halls of residence have a capacity of 350 connectable spots, students had connected 218 of their own computers and notebooks, and in new established rooms they could use additional 18 computers.

#### Number of Computers Connected in each TBU Building/Site

Building	Study Rooms, Classrooms, Laboratories	Employees
U1 (FT)	36	248
U2 (Rectorate, FT, FaME)	140	262
U3 (UNI)	0	4
U4 (FMC, CL, Refectory)	146	100
U5 (FT)	154	195
U6 (FaME, FMC, UNI)	28	125

#### Number of Computers Connected at the Halls of Residence

Building	Capacity	PC Connected	Study Rooms	Employees
U6 (Antonínova St.)	235	160	5	3
U7 (Štefánikova St.)	115	58	5	6
U3 (T. G. Masaryka Sq.)	0	0	8	2

In the new U5 site, there were 8 new computer classrooms and laboratories established with the total capacity of 112 computer sites and area study room with the capacity of 42 working sites. The majority of them were equipped with modern, newly purchased computer technology.

In the U2 site, there was a new multi-media language laboratory with the capacity of 24 working sites established. Top quality educational system SANAKO Lab 300 enables to teach with the aid of digital educational material and digitalized multimedia files. Study/course materials available on the internet (BBC, Deutsche Welle, and others) are primarily used. There is also the option to dig-

italize the analogy sources (audio, video, DVD) and all study materials. Besides practising the language structures during tests, the system also enables people to listen authentic tapes with follow-up check of the listening process, lead an individual and a group conversation, tape them and evaluate it later on. Financially this laboratory of the new generation was supported by a project, which was a part of the Transformational and developmental programmes during 2004: Multiple usage of digital multimedia computer classroom for the language education at the TBU in Zlín (2,650,000 CZK), the university contributed with 520,000 CZK.

There was also a new study room for the students of the University of the Third Age built in the same building; it has capacity of 21 working sites. This study room was financially supported by a project called: *The support of infrastructure development of the University of Third Age* (910,000 CZK) with a special donation of the Ministry of Education, Youth and Sports, the university contributed with 170,000 CZK.

TBU runs several integrated informational systems:

- informational system for economics managements (SAP VARIAS Education)
- informational system for the administration of studies (IS/STAG)
- university web site
- library informational system (T Series)
- the system of filing publishing activities (OBD<sup>PRO</sup>)
- card system (student and employee ID cards)
- entrance/pass system (entrance to buildings, offices and classrooms)
- meal plan system (Kredit 7)
- residence system (AT - Dormitory)
- legislative system (LexDATA)
- repro-graphic services (printing, copying, scanning)

The availability of the systems is given by the law for the system usage by individual users.

A trial run of the new informational system for economics management SAP VARIAS Education (SVE) started in January 2004, the actual productive run started in August. Several other public universities and colleges ran the same system and there was a new Coordination Centre created. The contract about the centre in the matter of foundation and run of the Coordination Centre, was signed by rectors of six public universities and colleges, defines the position and function of the Coordination Centre, its organizational and managerial structure, membership, management, rights and commitments of public universities and colleges coordinated in the CC, the operator and workers of the CC. The activities and the activities of the Central HelpDesk of the Coordination Centre are described in detail in the supplement of contract. This co-activity was financially supported by a project of Transformational and Developmental Programmes for the 2004 year: *The Support of Coordinated Approach of Universities and Colleges - security of the Coordination Centre for the SAP VARIAS Education system* (4,142,000 CZK).

The data in particular modules of SVE is processed centrally at the rectorate offices, other applications (time sheets, travel reimbursements) are distributed into particular offices. Users (CEO, secretaries of faculties, economists, directors of institutes, and heads of departments) have access to particular modules of the menu or to the selected packages and may only read that data.

Tomas Bata University joined seven other universities and colleges that run the administrative system developed at the University of West Bohemia, in Plzeň - IS/STAG. Respectively, starting at the beginning of the year various modules of the system were implemented (Entrance Exams/Procedure, Student, Graduate, Web Site and others, first registration of students, dates for exams and preregistration, grades). Since October the data from the systems were transmitted into the SIMS. The data in IS/STAG are thoroughly completed at various parts of TBU (study departments, vice-deans, personal assistants of departments, academics).

The university web site provides information to the public and also provides internal information to students and employees. The new built-up university web presentation and its content were thoroughly worked out and updated several times, paid close attention to particular parts of the university and also its English version.

The student and employee identification cards are used for identification in the library, for building, office and classroom entrance and for lunch orders.

There are seven multifunctional digital equipments for printing, copying and scanning (one for colour).

The OBD<sup>(PRO)</sup>(personal bibliographic database) contains TBU publishing activities and achievements. Through this system, the information is transmitted into the central databases CEP, CEZ, RIV.

The library information system T Series is accessible through TinWeb at the internet and also through WAP mobile phones.

The dormitories work with the informational system KOLEJE ON-LINE. The new information system Kredit 7 (without orders and without lunch tickets) for meal distribution was implemented.

Also, the legislative information system Lex-DATA is widely used. The university updates its multi-license every year.

All the information systems were financially supported by the Transformational and developmental programmes for the 2004 year: *The support of university information systems* (2,015,000 CZK).

The new replication server for the new information system Kredit 7 was bought, the server for the SVE information system was strengthened and additional stand-by equipment was bought.

The new switch board was established for the IP telephonie SIEMENS HiPath 3000.

This switchboard enables IP telephone connection anywhere at TBU through LAN network at TCP/IP. It is also a solution for telephone connection in areas where it would not be feasible to establish new side telephone network.

The project of the Fund for development CESNET: *Implementation IP telefonie at the TBU was finished in January 2004.*

The equipment for the connection of the central TBU telephone network with the IP telefonie network (in the CESNET network) was established.

After two month trial, the IP telefonie was established on April 1, 2004. Since that date till the end of the year

there were 4782 telephone connection (long distance – intercity and international) through with the total amount of 426 hours. The financial saving was almost 100,000 CZK.

The SpamAssassin anti-spam system was installed at the TBU central mail server which visibly marks e-mails with the SPAM mark. The e-mail users can filter their incoming e-mails.

## 5.2 End-User Connection Speed

The data networks in the buildings U1, U2, U3, U4, U5, U6, U7, U10, U12, and U13 are interconnected by cabling with data transfer speed of 1 Gbit/s.

The university computer network is connected to the network of national research and education CESNET2 with a connection speed of 1Gbit/s. This connection is carried out by fiber-optic cables via Palacký University in Olomouc. An extra back-up connection was established through Masaryk University in Brno, also carried out by fiber-optic cables with a speed of 1Gbit/s in September 2004.

TBU is yet to be connected to European projects of high-speed networks and GRIDs.

## 5.3 E-learning at TBU – Current Status and Plans for Future Development

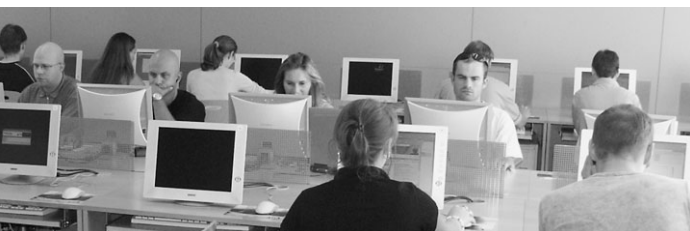
During 2004 special attention was paid to the development of e-learning as a support of distance studies and education in the following areas:

- at FAME the technical conditions were enlarged (HW, SW, service) for working in the EDEN virtual learning environment, also an English version of the programme was obtained,
- a chosen circle of academics continuously prepared for the educational management in the EDEN virtual learning environment,
- the teaching and study material for the combined form of studies in the chosen master study programme in the EDEN virtual learning environment was finished as a part of the transformational and developmental programmes,
- the EDEN virtual learning environment will be used at TBU faculties to provide accredited study programmes in the combined form of study and in the

offer of the lifelong learning opportunities,

- there was a supporting web with supporting learning aid constituted and started to operate at the UNI, the EU – Minerva Project (2005–2007) was filed: *The Influence of Modern Means of Information and Communication*, also the preparation of academic workers continued. They prepare for working with the learning programmes for the distance form of studies in the EDEN virtual learning environment.

A third conference on “E-learning in the university education” has already taken place at TBU. Researchers and scientists from the Czech Republic and Slovakia discussed these issues. The conference brought new inputs into the development of e-learning at TBU, new inputs for the preparations of e-courses, combined forms of studies and also articulated new conditions for future cooperation between universities in the Czech Republic and Slovakia.





## 6. TBU Central Library, Library and Informational Services

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### Address:

Tomas Bata University in Zlín  
Central Library  
Štefánikova 2431, 760 01 Zlín  
tel.: +420 576 034 818  
www.knihovna.utb.cz



### Library location symbol: ZLD002

In the register of the Ministry of Culture of the Czech Republic, the Central Library of the Tomas Bata University in Zlín (Central Library) has a registration number 4739/2003 and is listed as a specialized library. It meets

all requirements for a public institution as defined in the Act on Libraries and on Conditions for the Provision of Public Libraries and Information Services, Law No. 257/2001.

### 6.1 Extending the Library Stocks

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In the Library stocks, there are mainly books dedicated to subjects studied at TBU. The Library stocks include books from several specialized regional libraries that were closed. The library content consists of books, magazines, and special kinds of documents - in the traditional and electronic form. During 2004, the Central Library equipped the study rooms and the library with new books and magazines that are dedicated to the new TBU study programmes (Social Pedagogy, Health Care, Philology), the library also stocked

new books in the fields of philology, pedagogy, psychology, medicine and linguistics. In the library funds there are books from the diminished Library of the House of Culture, Ltd. and also books from the building department of the Regional Authority of the Zlín Region. The Central Library also established contacts with other university libraries in the area of exchanging publications. The purchased resources for the informational sources were 2,931,817 CZK in 2004 (without electronic sources).

#### Sponsors in 2004:

The Zlín Municipal Cultural Fund	purchase of library stock	180,000 CZK
The Tomas Bata Foundation in Zlín	purchase of foreign journals/magazines	150,000 CZK
AION CS, Ltd.	electronic portal Coto.Je	for the period of 10 years

### 6.2 Accessibility of Electronic Information Resources (Internet - Intranet)

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The Central Library enables its users to access 35 databases, out of which 34 are accessible through the computer network. The Library has its catalog in an electronic form, which is also a union catalog of library funds of TBU. The catalog is a part of the T Series union, which combines many other libraries, which use the same electronic system.

#### Access to Electronic Resources in 2004

The Central Library is a part of many 1N projects. As being a part of these projects, the library has access (among with others, especially university libraries) to bibliographic and full-text data or other electronic mate-

rials. Some databases require a financial input of TBU, some of them are subscribed and pre-paid only by TBU, others are accessible due to library consortiums that were established for these purposes.

## Electronic Sources Accessible at the Whole TBU

### **CHEMnetBase**

A large file of reference sources and dictionaries of CRC Press and Chapman & Hall Publishers.

### **Compendex**

Bibliographic notes and abstracts of magazine/journal articles, conference publications, research memos, dissertations, contacts to full texts of subscribed magazines/journals of Academic Press, Elsevier, John Wiley & Sons, and Springer.

### **Coto.Je**

Electronic form of Czech three biggest encyclopedias (Ottův slovník naučný, Small Czechoslovak Encyclopedia, Universum Encyclopedia).

### **CrossFire (Beilstein) and SciFinder Scholar**

System of basic scientific information sources for chemistry and related disciplines.

### **CSA Materials Science Collection with Metadex**

Collection of key scientific databases, devoted mainly to materials, metallurgy, ceramics, polymers composites and application of materials in engineering.

### **DSI Full Campus Solutions**

Collection of economical and statistical databases, contains databases World OECD, Eurostat, German Statistics and Intra-Extra-EU Trade.

### **eIFL Direct (EBSCO)**

Academic Search Premier

Business Search Premier

Newspaper Source

MasterFILE Premier

Regional Business News

Full-text magazines/journals, abstracts of periodicals, newspapers, news of informational agencies, more than 1,300 booklets, full-text reference publications, it also includes the area of social sciences and humanities, includes access to MEDLINE

### **EnvironetBase**

The database is devoted to ecology, health concerns and connected fields and areas. Also presents a huge collection of factographic material, full-text monographies and reference books.

### **Environmental Science & Pollution Management Database**

Collection of 13 databases connected to environmental issues, bibliographic files of articles, conference materials, news.

### **Express Exec**

Economic database devoted to economics, management, internal management of firms and companies.

### **Food Science & Technology Abstracts**

FSTA covers food science and technologies, includes magazines, publications, abstracts

### **Iconda**

Bibliographical data and magazine articles abstracts, conferences, research memo, dissertations, monographies, fields of building, architecture, urban planning.

### **IEEE Computer Society Digital Library**

Database of the information science, technologies, it is a part of the database centre Dialog

### **Inspec**

Bibliographic memos, notes, and abstracts of magazine articles, conferences, research memos, dissertations, monographies, connection to full-texts of subscribed magazines of publishing houses Academic Press, Elsevier, John Wiley & Sons, and Springer. It is devoted to computers, information technologies, physics, electronics, and electrotechnics.

### **International Science Database**

Multidisciplinary source for a wide range of sciences. A great emphasis is given to European region, articles out of more than 8,000 periodicals.

### **Journal Citation Reports (JCR Web)**

Complement of the Web of Knowledge (Web of Science), connected to the impact factors of magazines.

### **Knovel**

Factography, referential and full-text work from technical and natural sciences, pharmacy, food industry, health, hygiene.

### **Lexdata**

Law database, legislation, Czech legislative rules, international contracts, law procedures of European Union.

**Literature Online**

Contains works of British and American poetry, drama, prose, provided with bibliographical, biographical and other secondary sources.

**Manuskriptorium**

Database contains descriptions of treasured manuscripts, old prints and maps.

**Oxford Reference Online**

Collection of electronic dictionaries, encyclopedias of the University Press.

**ProQuest 5000**

Multidisciplinary database devoted mainly to humanities, to most equipped world database of magazine articles, access to full texts.

**Ulrichsweb.com**

Detailed information about all periodicals, annual publications, non-periodicals of the whole world.

**ViewsWire**

Issues of "Business Intelligence", commentaries, analysis of political events, economics, business, finances, contains five-year prognosis, financial information, market information.

**Web of Knowledge (Web of Science)**

Science Citation Index Expanded

Science Citation Index

Arts and Humanities Citation Index

Multidisciplinary bibliographical database, data source for bibliometry, connection to full-texts.

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**Electronical Sources Accessible only in the Central Library****Anopress (TAM - TAM)**

Full-texts of newspaper and magazine articles, exact writing of television and radio programmes, chosen book and other files.

Firm monitor (access only at FaME).

**ČTK (Czech Press Agency)**

Czech Republic

Biography

Countries of the world

Factography database

**ČNB (Czech national bibliography)**

Includes Czech production.

**GAPIS**

Access to rubber and plastic information server.

**iHned**

Economical news server of the Hospodářské noviny (Economic Newspapers), archives of the newspaper, Ekonom, Moderní řízení, Moderní obec, Logistika.

**iStrategie**

News server, access to Strategie magazine.

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**Full-Text Electronic Magazines****ACS (American Chemical Society)****Blackwell**

Collection of Humanities and Social Science

**InterScience (John Wiley & Sons)****KluwerOnline (Kluwer)****ScienceDirect (Elsevier)****SpringerLink (Springer Verlag)**

## 6.3 Library and Information Services

Table No. 11

Acquisition in 2004	4,882
Library stock total	44,261
Number of electronic periodicals (estimation)	15,351
Number of subscribed periodicals	392
Opening hours per week <sup>1)</sup> physically	library – 43 hours/week study rooms – 55 hours/week
Number of loans <sup>2)</sup>	37,205 + re-newals: 7,562
Number of users <sup>3)</sup>	9,371
Number of study places	182
Number of volumes in open-shelf stock	25,999

### Notes:

- <sup>1)</sup> The opening hours of the workplace with the longest opening hours. The opening hours of individual workplaces are not added up.  
<sup>2)</sup> Including re-newals.  
<sup>3)</sup> "A user" is a person who used the library loans/services at least once in the current calendar year

The Library provides public library and information services as defined in §4, article 2 of the Act on Libraries. The basic services are free of charge. The services are available to registered users, libraries and institutions. The Central Library is open for the public in given opening hours.

**It offers its users the following services - loans** (off-site loans from the open-shelf stock or archive), **reservation of documents** (for off-site loans), **on-site loans** (self-service in study rooms), **circulation services, inter-library services (active** - in-country, international, reprographic, electronic, services of the Library to other libraries and institutions, **passive** - in-country, international, reprographic, electronic - mediating documents that are not available from the Library own stock, **active supplies of copies of documents** (to other libraries), **passive supplies of copies of documents** (to our users according to the categorization), supplies of journal contents (**current services**), **search mediation** from other libraries (from the databases that the library does not have access to),

**informational, bibliographical, advisory, consultation, and reference** services (information on library stocks, databases, library services, conditions for using the services, ways of obtaining information, bibliographical and factual information, consultation on diploma thesis and dissertations, information of resources location and availability, verification and précising of quotes), **selective information, information in spoken or written form, other services - reprographic, photocopying, networked printing, scanner** - self-service, **electronic** services - electronic communication with users, **electronic supplies of documents** through the Virtual Polytechnic Library, National Library of the Czech Republic, **access to the internet and electronic information resources, on-line services** - tracking loans, re-newal of loans, book reservation - without a personal visit).

The Library serves as a TBU information workplace subordinated to the Rectorate, and ensures access to the union catalog, and to selected electronic information resources in study rooms.



## Equipment of the Library and Study Rooms

Table No. 12	
Number of study sites in study rooms and reading rooms	182
Number of PC sites - total	174
out of which - Central Library and study room (U 44)	100
out of which - Remote study room Mostní St. (U2)	25
out of which - Remote study room Jižní Svahy (U5)	49
out of which - Access to the OPAC catalog	4
out of which - Catalog available from the www interface	151
out of which - Access to internet and electronic sources	151

## 6.4 Electronic Services for Universities

The users and employees of the library and study rooms use the most modern information technologies and standards. They can work on PC, they can use traditional documents, multimedia (CD, etc.), and electronic sources, bibliographical, factographical, full-text, e-books (referential books, dictionaries, etc.). There is also digital multifunctional equipment - copy machines, network printers, scanners. All the equipment works on the basis of chip cards.

### The usage of modern technologies

Starting on January 1, 2004, the self-served digital printers and photocopy machines are used. The service was

provided through coins. In the 2004/5 academic year (from October 1, 2004 till December 31, 2004) this service was provided through chip cards, first only on a trial basis. The library and its study rooms (Remote study room U2, U5) were equipped with other multifunctional equipment.

### Print (chip cards)

Central Library - first floor - copy: 6,354, print: 1,909  
 Central Library - study room - black/white copy: 5,708, black/white print: 18,890, color copy: 27, color print: 668  
 Remote study room U2 - copy: 20,000, print: 15,439  
 Remote study room U5 - copy 6,788, print: 7,478

## Usage of Modern Technologies

Table No. 13	
<b>Digital multifunctional devices</b>	
Network printer and photocopy machine (coin automat)	149,078
<b>On-line services</b>	
Reservations	743
Renewals	4,979

The library also provides electronic services. That includes sending information in its electronic format, providing selective information, delivering documents in the electronic form (the library cooperates with the National Library of the Czech Republic and the State Technical Library). During 2004 the library decided to cooperate with another library (National Pedagogical Library) and use new services of this library in the area of electronic delivery of documents (E-Ped = Electronic Pedagogical Library). This service

also includes on-line services for users. Electronic services of the library also include stock purchases - books, periodicals and inter-library loans. Subscriptions of books and periodicals for the university teachers are made through the new university economic system SAP, from 2004.

The work in electronic environment is also confirmed by the newly established virtual library office that became a new communication tool for the library and study rooms employees.

## Inter-Library Loan Services

Table No. 14	
<b>Inter-library loan services</b>	704
Active (including EDD)	103
Passive (including EDD)	601
International (passive)	53
International (active)	3
Searches	8

### Remote study room U2 - Mostní Street

There is a virtual environment at the remote study room on Mostní Street. The study room is equipped with 24 computers and 1 central service computer. The users may work with electronic sources, use computer programmes, programmes that they may use during their classes at TBU (Word, Excel, PowerPoint, mail programmes, internet, and others), they may also use multifunctional digital equipment based on chip cards.

### Remote study room U5 - Jižní Svahy

During 2004 another remote study room started to run its services, it is situated at the U5 site, Jižní Svahy. The study room offers 49 working sites with one central service computer. The majority of them are equipped with a computer. Students may also use a digital multifunctional equipment based on a chip card. Students may use photocopying services, scanning, network printer.

## 6.5 User Education and Training

In 2004, the Library offered its users IT training in several categories:

- familiarization with the Library and its services - for new users, first year students,
- workshops on information searching for the final year students,

- workshops on library services information resource searching and searches in full-texts resources.

The Central Library prepared 23 educational events and consultations. Consultations are also run individually.

## 6.6 Library Staff - Qualifications and Lifelong Learning

### Structure of the TBU Central Library Staff

Table No. 15	
Employees	Number
<b>Total</b>	11
University education	7
out of which librarian university education	4
High school education	4
out of which librarian secondary education	2

Employees - Age Structure	
	Number
under 29	5
30-39	0
40-49	3
50-59	3
over 60	0

### **Lifelong Education**

The employees of the library attend several workshops, seminars, conferences and meetings with colleagues every year. During 2004, they attended the following activities:

### **Training**

PowerPoint

Economic system SAP (orders, controlling, time sheets, business trips reimbursement)

Authority (Authority head in the document description)

MVS (= ILL, Inter-library loans, sources for checking on availability of international inter-library loans, electronic services)

Work with particular databases

Language preparation (English)

### **Library events**

Annual Conference of the University Libraries Association

Club of University Libraries – SKIP

Meetings of committees – EIZ (Electronic information sources), Committee for information education and literacy at universities, Committee for University Libraries Association

Infórum 2004

Libraries Today 2004

Council of University libraries 2004

## **6.7 Other Activities, Miscellaneous**

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### **Central Library**

- is a member of the University Libraries Association and the Association of Library and Information Workers (SKIP),
- works in the University Libraries Club SKIP and in the University Committee for Electronic Information Resources (EIZ),
- has its own representative on the Universities Board – the Committee for Universities Libraries and on the Committee for IT Education and Computer Literacy at Universities, the University Libraries Association on a new board for final thesis – University Libraries Association.

### **Cooperation of the libraries in other areas**

The Central Library shares electronic resources and services with other universities and uses modern technologies and standards for processing documents. The Library uses the possibility to share on-line cataloging information with other libraries, especially the National Library of the Czech Republic.

The Library cooperates with other libraries in the following fields and areas:

Projects 1N

VISK (Public Information Services of Libraries)

VISK 8 (sharing Electronic Resources – databases ČTK, Anopress – TAM – TAM)

VISK 9 (National Authority Captions, geographical names)

VPK (Virtual Polytechnic Library – union catalogue, electronic delivery of documents)

DODO (electronic delivery of documents from the National Library of the Czech Republic)

E-Ped (electronic pedagogical library) – delivery of documents from virtual National Pedagogical Library

Union Catalog of the National Library of the Czech Republic – acquisition of foreign documents and international magazines and journals

Union Catalog of the National Medical Library – acquisitions in the journal stock

Union Catalog of the Moravian Library – acquisition in the journal stock

### **News in the area of cooperation and the electronic approach (summary)**

During the year of 2004, the Central Library also worked on the guidelines for the usage of university assignments and their electronic form. The testing should be scheduled for the beginning of 2005 year. Starting in 2005, the final student assignments will be accepted only in the electronic form, it is going to be the start of the digital library of student assignments. The digital library will be interconnected with the electronic library catalog. Also the informational system of study agenda – STAG will be used. In this matter, the library employees already work in the newly established Committee for University Libraries.

New services with the digital multifunctional equipment based on the chip cards were established during 2004.

The Central Library started to cooperate with the National Pedagogical Library in the project E-Ped (electronic pedagogical library) – delivering of documents from the virtual library (so far, the university wants to participate passively = the member uses the services, does not provide the services). The service was established towards the end of the 2004 year.

The Library obtained 44,000 CZK from the VISK 9 Programme (Cooperative preparation of national authorities files) – and worked on library cooperation in this area (data sharing among libraries). The Library as an active participant of the project (provides files) and also a passive one (receives files).

The VISK 8 Project allowed the consortium buying of Czech informational sources (databases TAM-TAM and ČTK).

Order requests for books and magazines from TBU employees are received through the SAP economical sys-

tem, starting in 2004. The Library also uses this system to order books and magazines.

The users of the Library and its study rooms can also use a new web division for the search of electronic databases and full-text magazines. The Library prepared a statistical site of accesses to electronic informational sources, which allow evaluating the usage and accessibility of individual electronic sources during the following year.

The Library employees prepared a new communication „channel“ for mutual understanding – The Library Virtual Office.



*Project of the Congress and University Centre (realization in 2007, author Prof. Eva Jiřičná).*



## 7. Research and Development

### 7.1 Areas of Research and Development

TBU research activities are oriented towards the areas of basal and applied research. Research and developmental activities are provided by faculties and various parts of TBU. Basic areas for the Faculty of Technology are presented in Chapter 11.1.5, for the Faculty of Management and Economics in Chapter 11.2.5, for the Faculty of Multimedia Communications in Chapter 11.3.5, and for the University Institute in Chapter 11.4.5.

At the present time, TBU has one research centre at the Faculty of Technology, The Polymer Centre, which concentrates on research of polymeric materials and processes. In order to increase the effectiveness of R&D activities, TBU has set the following activities with their priorities:

- to reach higher productivity of R&D activities,
- to support research activities as a part of doctoral study programmes,
- to support international scientific cooperation,
- to increase the amount of research capacity,

- to strengthen cooperation with other universities and The Academy of Sciences of the Czech Republic,
- to support cooperation with enterprises and institutions,
- to improve working and social conditions of doctoral study programmes students and scientific employees,
- to increase the amount of investment and improve instrumental equipment,
- to enlist international scientific employees and workers.



### 7.2 Focus of Research Plans

The following research plans of the Ministry of Education, Youth and Sports were dealt with at TBU:

#### At the Faculty of Technology:

1. *New Technologies and Ecological Trends in Processing of Natural Polymers, MSM 265200014.*

This research plan is focused on the development and optimization of recycling technologies. This research involves recognition of the mechanisms of manufacturing reactions, the quantitative description of the proposed mechanisms, and their experimental verification. Designs of technological equipment and design of the control algorithms are based on the theory of process engineering, the kinetics of heterogeneous processes, and the theory of transport phenomena. The developed recycling technologies are verified in production plants in the Czech Republic and in EU countries within the 5th EU framework for sustainable growth.

2. *Progressive Polymeric Systems and Technologies, MSM 265200015.*

The largest TBU research project, which involves workers of five FT Departments. Within the framework of the project, these workers solve numerous sub-projects oriented towards the main research areas. The most significant of these sub-projects are investigations into bio- and nano-technologies, and electrical, rheological, processing, surface, and molecular properties of polymeric systems.

3. *Automatization of Technologies and Manufacturing Process, MSM 281100001.*

This research plan deals with monitoring, identification, and control of technological process in two key

areas. In the theoretical part, attention is paid to the theory of higher forms of control systems, i.e. adaptive, robust, and optimal control algorithms, including the applications of the principles of artificial intelligence. In the applications area, the research is aimed at the implementation and verification of the designed control algorithms under real conditions, and research and development of means of automation technology and informatics.

4. *Minimization of the Influences of Industrial Wastes upon the Environment, MSM 281100002.*

This research plan deals with biological degradation of plastic materials modified with waste biopolymers – i.e. the aerobic and anaerobic disintegration of films made of mixtures of PVAL, protein hydrolysate, plastic starch, lignin, etc., neutralization of chlorinated ethylene by microbial cultures, both defined and industrial, neutralization of hazardous industrial wastes both solid and liquid through the stabilization/solidification process.

#### At the Faculty of Management and Economics

1. *Research of Competitive Abilities of Czech Manufacturing Enterprises, MSM 265300002.*

This research plan focuses on the formulation of the theoretical principles and starting points for the conception of the economic policy of the future Euro-region in the context of the globalization of the Czech economy. Furthermore, it includes development of methodological materials for implementing programmes for enterprise processes modernization leading to increase in the competitive abilities of the enterprises.

## TBU Involvement in Research Projects

Table No. 16 Title of the Research Plan	Financial Resources Allocated in 2004 (in thousands of CZK)
New Technologies and Ecological Trends in Processing of Natural Polymers	4,058
Progressive Polymeric Systems and Technologies	12,983
Automatization of Manufacturing Processes and Technologies	1,930
Minimization of the Influences of Industrial Wastes upon the Environment	2,524
Research of Competitive Abilities of Czech Manufacturing Enterprises	3,200
<b>Total Sum from Public Resources</b>	<b>24,695</b>

### 7.3 Unique R&D Workplace in the Czech Republic - The Polymer Centre

The Polymer Centre is a research unit of the Faculty of Technology. Its main area of research is basic, applied and industrial research into the engineering aspects of technologies and materials based on polymer composites. The areas concerned are mainly: rheology, unstable polymer flows, molecular electronics, thermodynamics of polymer systems, physical ageing, highly filled polymers, perlocation phenomena and smart behavior of polymeric materials.

The outcomes of the research are used primarily in rubber and plastics industries, automobile and textile industries, in medicine, agriculture and in the production of packaging materials.

In the area of education, the attention is focused on master and doctoral degree programmes.

#### The Greatest Success

The discovery of the positive and negative electrorheological effect in selected polymer systems.

#### Cooperation with International/Foreign Institutions

East China University of Science and Technology, Shanghai, China,

Chalmers University of Technology, Göteborg, Sweden,

Indian Institute of Technology, New Delhi, India,

Indian Institute of Technology, Khagarpur, India, Instituto Politécnico Nacional, Mexico City, Mexico, National Institute of Advanced Industrial Science and Technology, Macromolecular Technology Research Centre, Tsukuba, Japan,

Institute of Radioengineering and Electronics, Moscow, Russian Federation,

Sichuan University, The State Key Laboratory of Polymer Materials Engineering, Sichuan, China,

University of Bradford, Bradford, Great Britain,

University of Ljubljana, Ljubljana, Slovenia,

University of Waterloo, Ontario, Canada,

Universita degli Studi di Salerno, Salerno, Italy,

Universita di Palermo, Palermo, Italy.

#### Cooperation with Enterprises

Aliachem, a.s., Prague, Czech Republic - division Fatra Napajedla, division Technoplast Chropyně, Czech Republic,

Compuplast Int., Zlín, Czech Republic,

Cutisin, a. s., Slavkov u Brna, Czech Republic,

Hexagon Holding, Copenhagen, Denmark,

Kastek UB, s. r. o., Uherský Brod, Czech Republic,

SANDVIK Coromat AB, Sweden,

Dyneon LLC, Oakdale, U. S. A.,

3M Belgium N.V., Zwijndrecht, Belgium.

## 7.4 Significant Cooperation in R&D with Czech Enterprises and Institutions

During 2004 continued the cooperation with important Czech institutions in the area of research, solving out mutual projects and doctoral study programmes:

- Department of Macromolecular Chemistry, Academy of Science, Czech Republic,
- Department of Theory of Information and automatization, Academy of Science, Czech Republic,
- Department of Physics, Academy of Science, Czech Republic,
- Department of Informatics, Academy of Science, Czech Republic,
- Department of Hydrodynamics, Academy of Science, Czech Republic,
- Faculty of Electrotechnics, Czech Technical University, Prague,

- Faculty of Mathematics and Physics, Charles University, Prague,
- Faculty of Building Industry, Technical University, Brno,
- Academy of Fine Arts, Prague,
- Faculty of Economics and Public Administration, Masaryk University, Brno,
- Research Department of Bast Fibers, s. r. o., Šumperk,
- Czech Geological Department, Prague,
- Institute of Testing and Certificates, a. s., Zlín,
- Polymer Institute, s. r. o., Brno,
- SPUR, a. s., Zlín.

Also, there were many projects solved in cooperation with enterprises. They are especially connected to projects provided by the Ministry of Industry and Trade, Czech Republic.

## 7.5 Significant International Cooperation in Research and Development

In 2004, the Faculty of Technology participated in solving the project within the 5<sup>th</sup> EU *Framework Programme (FP) Development of Recycling Technologies for Processing of Raw Leather in Tanning Industry (Radical Environmentally Sustainable Tannery Operation by Resource Management RESTORM)*.

The Department of Production Engineering cooperated in the EU-supported project *System Analysis for the Production of Technical Rubber Goods and Tires (SATPRO)* within the Programme for Competitive and Sustainable Growth.

The Department of Physics and Material Engineering has been involved in solving the 6<sup>th</sup> EU Framework Programme „*Support for SMEs Collaborative Aeronautical Technical Research*“ (SCRATCH PHASE IV) since 2004. The Department of Polymer Engineering started solv-

ing the 6<sup>th</sup> FP EU „*Nanostructured and Functional Polymer-based Materials and Nanocomposites*“ (NANOFU).

There were also 5 more projects as a part of the Kontakt Programme solved at the Faculty of Technology. There were 7 new projects of Czech-Chinese cooperation accepted, that were submitted for the public competition in the Kontakt Programme with their start at the beginning of the 2005 year.

There were also projects of Czech-Slovenian and Czech-Russian cooperation accepted.

During 2004, there were international research employees from India, Russia, China, Japan, and many other countries.

TBU departments and work sites cooperate with more than 60 international/foreign partners.

### TBU Involvement in Projects Financed from Other Czech and Foreign Resources

Table No. 17 Programme Code	Title of the Project for Research and Development Support	Number of Project	Resource (in thousands CZK)
	Grants of Ministry of Culture, CR	2	84
5 <sup>th</sup> FP	RESTORM	1	600
5 <sup>th</sup> FP	SATPRO	1	584
6 <sup>th</sup> FP	SCRATCH PHASE	1	414
6 <sup>th</sup> FP	NANOFU	1	174
<b>Total</b>		<b>6</b>	<b>1,856</b>

## 7.6 Important Projects Financed from Specific Government Budget Resources

### TBU Involvement in Projects Financed from Specific Resources

Table No. 18 Programme Code	Title of the Project for Research and Development Support	Number of Projects	Resource (in thousands CZK)
IA	Grants for distinctly scientific research from the Academy of Sciences, CR	1	245
KJ	Junior scientific research grant programmes	1	313
GA	Standard Grants from the Grant Agency of the CR	7	3,905
	Standard Grants from the Grant Agency of the CR (co-researchers)	4	648
GP	Postdoctoral grants from the Grant Agency of the CR	7	1,421
GD	Doctoral Grants from the Grant Agency of the CR (co-researchers)	1	370
ME	KONTAKT Ministry of Education, Youth and Sports - through AIP	4	863
		1	37
FD	Grants MPO (co-researchers)	5	335
OE	Eureka (co-researchers)	1	600
WB	Research and Development for the Regional Needs (MMR = Ministry of the Local/Regional Development)	1	1,540
VA	Projects for the State Administration (MV) (co-researchers)	1	200
<b>Total</b>		<b>34</b>	<b>9,577</b>

## 7.7 Use of Industrial Support for Specific Research

In 2004, the Czech Ministry of Education, Youth and Sports allocated TBU 12,270,000 CZK in institutional financial resources for specific research. Out of this sum, 1 mil. CZK was for the Internal Fund for the Development of Science and Arts, 1 mil. CZK to support the Regional Innovation Centre, 4,108,000 CZK was for the Internal Fund for the Support of Personal Structure of Scientific-Research Employees. The remainder of the resources for specific research was divided among the faculties in the following way: Faculty of Technology 5,175,000 CZK, Faculty of Managements and Economics 987,000 CZK.

The sources were used for the support of cooperation among students of doctoral and master study programmes while working on scientific research projects, to support the co-research of academic employees and students, to support student research to work on master thesis and dissertations, and other student research. Specifically, the sources were used for scholarships, purchase of material, books, journals, magazines, purchase of supplies, travel reimbursement, etc.



## 8. University Employees

### 8.1 Qualification and Age Structure of Academic Employees

Table No. 19 Age	Academic Employees					R&D Workers
	Professors	Assoc. Professors	Senior Lecturers	Assist. Lecturers	Lectures	
Under 29	0	0	11	39	4	4
30-39	0	2	31	23	0	5
40-49	1	10	34	6	0	1
50-59	10	17	45	1	0	0
60-69	19	17	18	0	0	2
Over 70	7	4	1	0	0	3

### 8.2 Number of Internal (with Main/Full-Time Contracts) and External Employees

Table No. 20 Employees	Academic Employees					R&D Workers	Other Employees
	Professors	Assoc. Profess.	Sen. Lecturers	Assist. Lect.	Lecturers		
<b>Internal</b>							
- Individuals	23	40	121	66	4	13	281
- Ratio	23.00	39.22	110.03	56.05	0.81	10.71	257.83
<b>External</b>							
- Individuals	49	47	64	55	41	30	432
- Ratio	0.40	0.40	2.60	1.50	1.50	0.50	14.51

#### Trends in TBU Personal Structure

Table No. 21 Year	Academic Employees					Scientific Workers	Other Employees
	Professors	Assoc. Profess.	Sen. Lecturers	Assist. Lect.	Lecturers		
2005	38	59	149	69	20	19	255
2006	40	77	162	69	30	23	267

The basic University strategy is to employ workers with the appropriate for the given position. Knowledge of English and the ability to communicate in the international environment are essential prerequisites for employment.

### 8.3 Further Education of Academic Employees

Further education of academic employees is dealt with in a greater detail in the individual plans for the TBU academic employees' development. Apart from the specifically focused professional development of each employee, three common areas for professional growth are emphasized:

- language skills with emphasis on the ability to use English as the second language at TBU,
- IT skills with emphasis on the utmost exploitation of the possibilities offered by PCs, internet, intranet and information databases for pedagogical as well as R&D activities,
- the usage of multimedia for communication support and increasing the efficiency of the education process in both full-time and combined study forms.

## 8.4 Habilitation and Professorial Nomination Procedures

### Habilitation Proceeding at FT

Table No. 22 Name	Home Institution	Specialist Subject	Habilitation Thesis Title	Nominated at
Doc. Ing. Berenika Hausnerová, Ph.D.	TBU	Technology of Macromolecular Substance	On the Rheology of Filled Polymer Melts	TBU, Faculty of Technology
Doc. RNDr. Zdeněk Horák, CSc.	Department of Macromolecular Chemistry, Academy of Science, CR	Technology of Macromolecular Substance	Block co-polymers styren-butadien as compatibilizer at non-mixed polymers	TBU, Faculty of Technology
Doc. Ing. Iva Sroková, CSc.	University of Trenčín, SR	Technology of Macromolecular Substance	Chemical Modification of Cellulose and its Derivations	TBU, Faculty of Technology

### Habilitation Proceeding at FaME

Table No. 23 Name	Home Institution	Specialist Subject	Habilitation Thesis Title	Nominated at
Doc. Ing. Roman Bobák, Ph.D.	TBU	Management and Economics of a Firm	Logistic Support of Competitiveness Firm Process at Czech Industrial Manufacturers	TBU, Faculty of Management and Economics
Doc. Ing. Jitka Kloudová, Ph.D.	TBU	Management and Economics of a Firm	Marketing Control System in the Form of Audit as a Part of Company Management	TBU, Faculty of Management and Economics

## Habilitation Proceeding outside of TBU

Table No. 24 Name	Home Institution	Specialist Subject	Habilitation Thesis Title	Nominated at
Doc. Ing. Ivan Zelinka, Ph.D.	TBU, Faculty of Technology	Technical Cybernetics	Evolutionary Algorithms - Perspectives and Applications	Technical Univer- sity in Brno, Faculty of Electrotechnics and Communica- tion Technologies
Doc. PhDr. Jiří Chlachula, Ph.D.	TBU, Faculty of Technology	Geological Sciences	Placetocene Clima Change in Southern Siberia	Masaryk Univer- sity in Brno, Faculty of Natural Sciences
Doc. Ing. Petr Briš, CSc.	TBU, Faculty of Management and Economics	Material Science and Engineering	Material Aspects of Human Protection from Vibrations and Impacts	Technical Univer- sity Ostrava, Faculty of Metal- lurgy and Material Engineering

### TBU Professorial Procedure

During 2004, there was one nomination for the professorial procedure. The nomination of Doc. RNDr. Miroslav Raab, CSc. was presented to the Ministry of Education, Youth and Sports, CR.



## 9. Evaluation of TBU Activities

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Since September 2003, the Department of Internal Audit works at the TBU. During 2004 there were 11 audits scheduled, beyond this schedule there were also additional 5 partial audits.

The audits dealt with the following areas:

- academic employees/teachers time sheets,
- personal development of TBU and its parts,
- financing of Halls of Residence and Refectories,
- fulfillments of the class schedules,
- economics of chosen projects dedicated to research and development support,
- intended and executed relocations in chosen university sites,
- external work contracts,
- project scholarships of Grant Agency of the CR.

### 9.1 System of the Education Quality Evaluation at the University

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As a newly established university, TBU is undergoing a period of large increases in the numbers of students, academic employees, and study programmes offer. In order to continuously increase the quality of education and research work, TBU pays close attention to both external and internal quality evaluation of the achievements.

### 9.2 Results of the External and Internal Evaluation of the University Activities

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All faculties, Faculty of Technology, Faculty of Management and Economics, Faculty of Multimedia Communications, and the University Institute successfully passed the external evaluation of the education quality, carried out by the Accreditation Committee, in relation to the assessment of the Faculties' applications for accreditation and re-accreditation of all study programmes. The external evaluation of the R&D activities of the Faculties took place with regard to the Opponent Proceedings to the evaluation of the conclusions of research projects of the Ministry of Education, Youth and Sports, research projects of the Grant Agency of the Czech Republic and other grant agencies, and of the tasks resolved within the Framework of the Universities Development Fund. All these evaluations were carried out in front of committees nominated by external institutions and in the presence of representatives of external institutions. The evaluations of the resolved projects were very good. The outcomes from these evaluations were discussed with the deans of each faculty.

The external quality evaluation also includes evaluation of the results of these defenses and final state exams in bachelor, master and doctoral degree programmes. Members and chairs of the committees for the final state

exams are representatives of other universities and prominent specialists.

The management of the TBU pays a very close attention to the increase of the teaching quality. The aim is, as a part of the internal evaluation, to materially motivate the teachers to increase their qualifications, to increase the teaching qualities; also the teaching process is becoming more effective. Starting September 1, 2004, the rector's guidelines were established. There are new solutions for the time sheets of pedagogical activities and also a new guideline is being prepared. It deals with the system of evaluation of pedagogical and R&D activities at TBU. Also there was a change of the Payment guidelines at TBU.

Individual evaluation of academic employees was carried out on a regular basis with the focus on:

- evaluation of teachers work (including the evaluation of teachers provided by students),
- evaluation of publication activities,
- development of talented students,
- involvement for the benefit of the faculty and the university,
- evaluation by the employee's supervisor.

The evaluation outcome is used for the annual update of individual plans for personal development of academic employees.

### 9.3 Education Quality Evaluation by Students

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Evaluation by students was ensured in cooperation with representatives of the Student Union. The findings from this evaluation serve as feedback for improvement of the quality of courses, and of the pedagogical performance of individual academic employees.

### 9.4 Evaluation of Teachers' Preparations Quality

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The quality of teachers' preparations is the aim of internal university evaluation. While evaluating, the emphasis is given to the qualification increase, research and publication activities, and communication in English.



## 10. International Cooperation in Educational Activities

### 10.1 Direct International Cooperation of the University

The University signed up 7 new frame cooperation contracts in 2004.

#### List of Frame Contracts with University Partners Abroad

Partner University	Country	Contract Signature	Validity
University of Craiova	Romania	December 5, 2001	3 years
Trent University	Canada	February 25, 2002	3 years
East China University of Science and Technology	China	August 1, 2002	5 years
Pedagogical State University	Russia	November 11, 2002	unlimited
Trenčianska univerzita A. Dubčeka, Trenčín	Slovakia	January 29, 2003	unlimited
Institute of Northern Development	Russia	March 16, 2003	5 years
Gorno-Altai State University	Russia	October 6, 2003	unlimited
University of Palermo	Italy	November 11, 2003	3 years
Technische Universiteit Eindhoven	The Netherlands	March 1, 2004	3 years
University of Salerno	Italy	March 28, 2004	3 years
Hochiminh City University of Pedagogy	Vietnam	April 8, 2004	unlimited
Huddersfield University Business School	Great Britain	July 19, 2004	3 years
University of Genoa	Italy	October 19, 2004	unlimited
Saint-Petersburg State University	Russia	November 16, 2004	unlimited
Sichuan University	China	December 11, 2004	3 years

Apart from the concluded contracts, there is also a number of agreements of direct cooperation on the faculty level.

### 10.2 TBU Participation on International Programmes

The international cooperation in the area of education is aimed, besides of other activities, to the increase of international student body. There were 494 international students from 7 countries (including students from Slovakia, Vietnam and students coming for short-term stay - as a part of the bilateral agreements).

The most spread programme inside of the European Union is the Socrates/Erasmus Programme, which is

coordinated by the TBU International Affairs Department. While participating on the programme, 33 students spent altogether 124 months abroad and 30 teachers spent 36 weeks abroad. The programme is used to develop the international cooperation in the area of education and education support by modern tools, to transfer European standards and to prepare study programmes in English.



## TBU Cooperation with Foreign Universities - Socrates/Erasmus

Country	Partner University	TBU Faculty of Cooperation
Belgium	Katholieke Universiteit Leuven	FT
	University of Gent	FT
Finland	Lappeenranta University of Technology	FT
France	Université Blaise Pascal, Clermont	FT
	Université de Rennes	FT
Italy	Politecnico di Milano	FT
	University of Salerno	FT
Germany	Fachhochschule Köln	FT
	University of Bayreuth	FT
	University of Freiburg	FT
	Ruhr-Universität Bochum	FT
Portugal	Fachhochschule Kaiserslautern	FT
	Instituto Politecnico de Beja	FT
	Universidade de Aveiro	FT
Sweden	Universidade Técnica de Lisboa	FT
	Chalmers University of Technology	FT
Great Britain	Linköping University	FT
	University of Strathclyde, Glasgow	FT
Belgium	University of Northampton	FT
	HEMES, Liège	FaME
Finland	Savonia Polytechnic, Kuopio	FaME
The Netherlands	Hogeschool Zuyd	FaME
Portugal	Instituto Politecnico de Beja	FaME
Austria	University of Applied Sciences	FaME
Turkey	Dumlupinar University, Merkez	FaME
Finland	Lapin Yliopisto	FMC
Germany	University of Applied Science Dortmund	FMC
Poland	Akademia Sztuk Pięknych w Krakowie	FMC
Portugal	Universida do Algarve	FMC
Slovakia	Univerzita K. Filozofa, Nitra	UNI

As a part of the Socrates/Erasmus programme, TBU is also a part of the Theme Network. TBU is an active participant of other European programmes and is a member of EUA.



## EU Programmes for Education and Preparation for Future Employment

Table No. 27 Programme	Socrates Erasmus	Socrates				Leonardo
		Comenius	Grundtvig	Lingua	Minerva	
Number of projects	3	0	0	0	0	2
Number of students sent abroad	33	0	0	0	0	0
Number of intl. students	11	0	0	0	0	0
Number of academic sent abroad	30	0	0	0	0	3
Number of intl. academics	6	0	0	0	0	4
<b>Subsidy (in thousands CZK)</b>	<b>2,493</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>380</b>

## Other Programmes

Table No. 28 Programme	Ceepus	Aktion	Others
Number of projects	0	0	2
Number of students sent abroad	0	0	6
Number of intl. students	0	0	10
Number of academic sent abroad	0	0	0
Number of intl. academics	0	0	0
<b>Subsidy (in thousands CZK)</b>	<b>0</b>	<b>0</b>	<b>160</b>

Note: In the „Others“ column are all the programmes of the university that were not suitable to locate elsewhere.

## 10.3 International Mobility of Students and Academic Employees

TBU constantly enlarges its offer of courses taught in English. They are offered mainly to international students who arrive for an exchange programme. There are the ECTS Guidelines in Czech and English. They contain the complex offer of all study programmes taught at TBU.

The Rector's Guideline was passed, which modifies and simplifies the acceptance of the studies abroad in 2004.

Numerical data connected to the international mobility of TBU students and academic employees are provided in the following tables. Gaining the international experience has a great impact on the quality development of the education, research and management system at the TBU. Students and teachers use their personal experience from partner universities while evaluating the alma mater university activities.

## Other International Study Programmes

Table No. 29 Programme	Government Scholarship	Direct Inter-University Cooperation	
		In Europe	Outside Europe
Number of students sent abroad	0	5	5
Number of accepted students	1	0	2
Number of academics sent abroad	1	1	0
Number of accepted academics	0	0	0

## 11. Activities of the Faculties and Other University Entities

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**Address:**

Tomas Bata University in Zlín  
Faculty of Technology  
Nám. T. G. Masaryka 275, 762 72 Zlín  
tel. 420576031 120  
[www.ft.utb.cz](http://www.ft.utb.cz)

## 11.1 Faculty of Technology

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### Dean

Prof. Ing. Josef ŠIMONÍK, CSc.

### Vice-Deans

Prof. Ing. Lubomír LAPČÍK, DrSc., dr.h.c.

*Vice-Dean for R&D, international relations and doctoral studies,  
statutory deputy dean*

Doc. RNDr. Jiří DOSTÁL, CSc.

*Vice-Dean for Pedagogical Activities of Bachelor Studies*

Doc. Ing. Miroslav MAŇAS, CSc.

*Vice-Dean for Establishing the Faculty of Applied Informatics and for Internal Relations  
(till July 31, 2004 - the position cancelled)*

*Vice-Dean for Pedagogical Activities of Master Studies  
(from August 1, 2004)*

Prof. Ing. Roman PROKOP, CSc.

*Vice-Dean for Pedagogical Activities of Master and Doctoral Studies  
(till July 31, 2004)*



### Academic Senate

Ing. Tomáš SYSALA, Ph.D.

*Head*

### Scientific Board

Prof. Ing. Josef ŠIMONÍK, CSc.

*Head*

### Secretary

Ing. Jan JANDÍK

### Heads of Study Programme Boards

Prof. Ing. Milan MLÁDEK, CSc.

*study programme Chemistry and Materials Technology*

Prof. Ing. Ignác HOZA, CSc.

*study programme Chemistry and Food Technology*

Prof. Ing. Petr DOSTÁL, CSc.

*study programme Chemical and Process Engineering*

Doc. Ing. Miroslav MAŇAS, CSc.

*study programme Process Engineering*

Prof. Ing. Vladimír VAŠEK, CSc.

*study programme Engineering Informatics*

### Heads of Doctoral Study Programmes - Field Boards

Prof. Ing. Petr DOSTÁL, CSc.

*study programme Chemical and Process Engineering*

*- study course Technical Cybernetics*

Prof. Ing. Jan KUPEC, CSc.

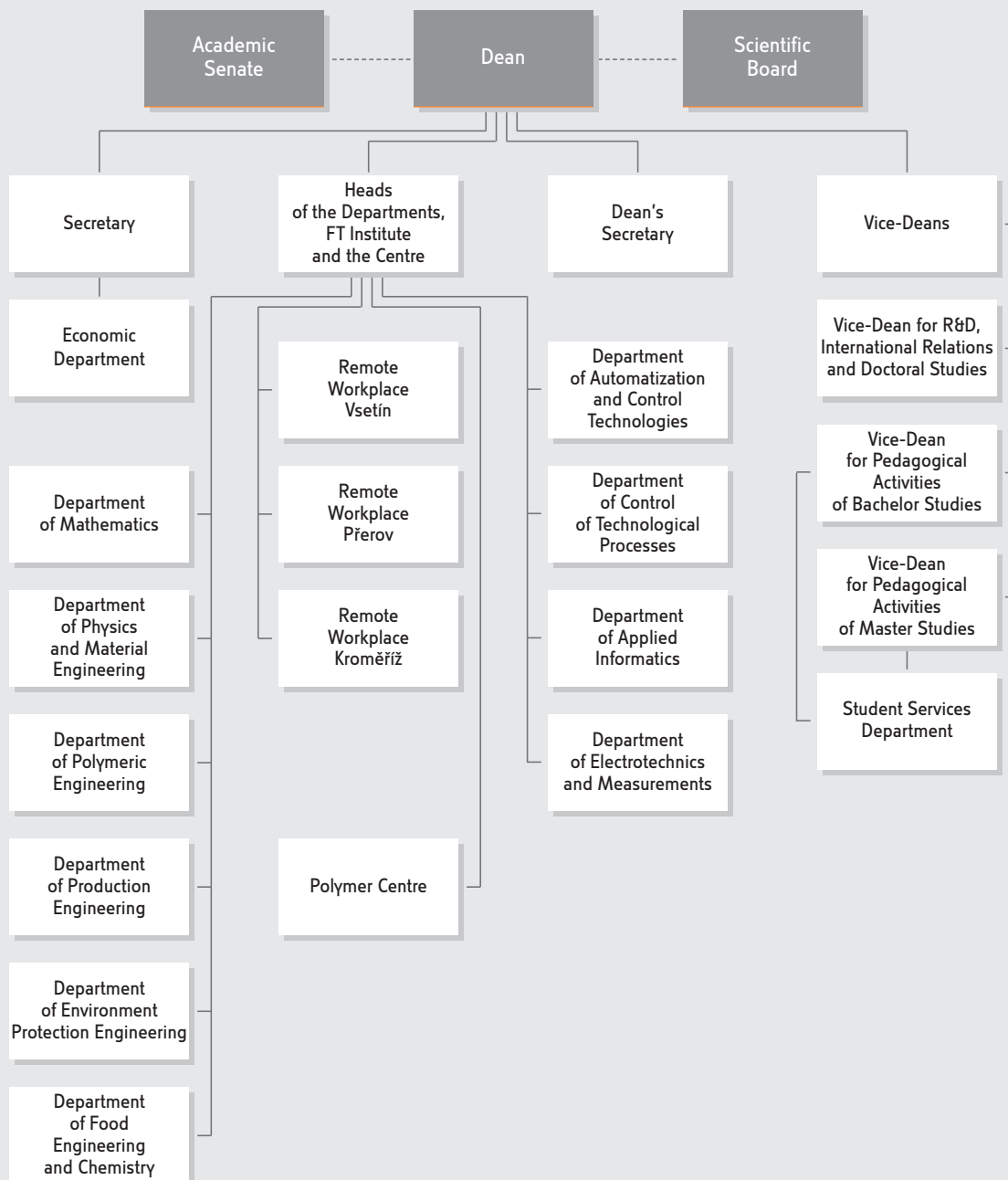
*study programme Chemistry and Materials Technology*

*- study course Technology of Macromolecular Substances*

### FT Representative to the Assembly of the Czech Council of Higher Education Institutions

Doc. Ing. Stanislav KAFKA, CSc.

## 11.1.1 Organizational Structure of the Faculty of Technology



## 11.1.2 FT Departments, Institute and Research Centre

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### **Department of Physics and Material Engineering**

Head: Prof. Ing. Lubomír LAPČÍK, Ph.D.

### **Department of Mathematics**

Head: Doc. RNDr. Josef ZEDNÍK, CSc.

### **Department of Polymeric Engineering**

Head: Prof. Ing. Josef ŠIMONÍK, CSc.

### **Department of Environment Protection Engineering**

Head: Doc. Ing. Jaromír HOFFMANN, CSc.

### **Department of Production Engineering**

Head: Doc. Ing. Miroslav MAŇAS, CSc.

### **Department of Food Engineering and Chemistry**

Head: Prof. Ing. Ignác HOZA, CSc.

### **Department of Engineering and Shoe Hygiene**

Head: Doc. Ing. Petr HLAVÁČEK, CSc.

### **Institute of Process Controlling and Applied Informatics**

Head: Prof. Ing. Vladimír VAŠEK, CSc.

### **Polymer Centre**

Head: Prof. Ing. Petr SÁHA, CSc.

## 11.1.3 FT Study Programmes

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### **Bachelor Study Programmes**

#### **B 2807 Chemical and Process Engineering**

*Courses*

Automation and Informatics

Automation and Process Control

full time and combined studies

#### **B 2808 Chemistry and Materials Technology**

*Courses*

Chemistry and Materials Technology

Technological Equipment

Shoe Making Technology (guaranteed by TBU, taught by Higher Professional School of Business in Zlín)

full time and combined studies

#### **B 2901 Chemistry and Food Technologies**

*Course*

Chemistry and Food Technologies

full time studies

#### **B 3902 Engineering Informatics**

*Courses*

Automatic Control and Informatics

Information Technologies

Security Technologies, Systems and Management

full time and combined courses

#### **B 3909 Process Engineering**

*Course*

Technological Equipment

full time and combined studies

#### **B 6208 Economics and Management**

*Course*

Economics and Nutrition Hygiene

full time studies

## Follow-Up Master Study Programmes

### **N 2807 Chemical and Process Engineering**

#### *Courses*

Automation and Process Control in Consumer Industry  
Automation and Process Control  
full time and combined studies

### **N 2808 Chemistry and Materials Technology**

#### *Courses*

Technology of Leather, Plastics and Rubber  
full time studies  
Materials Engineering  
Footwear and Leather Goods Production  
Polymeric Materials and Technologies  
Environmental Technology  
Protein Technology  
Technology and Management  
full time and combined studies

### **N 3902 Engineering Informatics**

#### *Courses*

Teaching of Informatics for Elementary and High Schools  
full time study  
Automation Control and Informatics  
Information Technologies  
full time and combined studies

### **N 3902 Process Engineering**

#### *Course*

Technological Equipment Construction  
Quality Control  
Production Engineering  
full time studies

### **N 6208 Economics and Management**

#### *Course*

Economics and Nutrition Hygiene  
full time and combined studies

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## Master Study Programmes

### **M 2808 Chemistry and Materials Technology**

#### *Courses*

Technology of Leather, Plastics, and Rubber  
Footwear and Leather Goods Production  
Rubber and Plastic Technology  
Protein Technology  
Environmental Technology  
Materials Engineering  
Technology and Management  
full time and combined studies

### **M 2807 Chemical and Process Engineering**

#### *Course*

Automation and Process Control in Consumer Industry  
full time and combined studies

### **M 6208 Economics and Management**

#### *Course*

Economics and Nutrition Hygiene  
full time and combined studies

---

## Doctoral Study Programmes

### **P 2807 Chemical and Process Engineering**

#### *Course*

Technical Cybernetics  
full time and combined studies

### **P 1407 Chemistry**

Technology of Macromolecular Substances  
Full time and combined studies

### **P 2808 Chemistry and Materials Technology**

#### *Course*

Technology of Macromolecular Substances  
full time and combined studies



## Applicant Interest in FT Bachelor Study Programmes

Table No. 30 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
CHPI	2807	46	46	41	41	27
CHTM	2808	353	353	319	319	237
CHTP	2901	519	519	451	451	296
II	3902	659	659	473	473	336
PI	3909	336	336	268	268	182
<b>Total</b>		<b>1,913</b>	<b>1,913</b>	<b>1,552</b>	<b>1,552</b>	<b>1,078</b>

## Applicant Interest in FT Follow-Up Master Study Programmes

Table No. 31 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
CHPI	2807	20	20	20	20	20
CHTM	2808	58	58	58	58	58
CHTP	2901	34	34	34	34	29
II	3902	107	107	106	106	101
PI	3909	25	25	22	22	22
<b>Total</b>		<b>244</b>	<b>244</b>	<b>240</b>	<b>240</b>	<b>230</b>

### Note:

- 1) Total number of applications received.
- 2) Number of applicants for study. The figures express the number of individuals, the study courses totals include multiple application (i.e. students applying for more than one course).
- 3) Number of applications responded to positively.
- 4) Number of applicants accepted for studying. The figures express the total number of individuals, the study courses totals include applicants accepted to more than one course.
- 5) Number of accepted students who registered to start their studies.

## Number of Students at FT

Table No. 32 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
CHPI	2807	71	62	52	185
CHTM	2808	358	125	108	591
CHTP	2901	338	29	0	367
II	3902	757	109	0	866
PI	3909	305	28	0	333
EM	6208	3	21	0	24
<b>Total</b>		<b>1,832</b>	<b>374</b>	<b>160</b>	<b>2,366</b>

## Number of International Students at FT, Including Students from Slovakia

Table No. 33 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
CHPI	2807	2	0	2	4
CHTM	2808	78	17	9	104
CHTP	2901	3	0	0	3
II	3902	41	6	0	47
PI	3909	14	0	0	14
EM	6208	0	0	0	0
<b>Total</b>		<b>138</b>	<b>23</b>	<b>11</b>	<b>172</b>

## Number of FT Graduates

Table No. 34 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
CHPI	2807	17	31	5	53
CHTM	2808	82	77	13	172
II	3902	85	0	0	85
PI	3909	20	0	0	20
EM	6208	0	10	0	10
<b>Total</b>		<b>204</b>	<b>118</b>	<b>18</b>	<b>340</b>

### Note:

CHTM - Chemistry and Materials Technology

CHPI - Chemical and Process Engineering

CHTP - Chemistry and Food Technologies

II - Engineering Informatics

PI - Process Engineering

EM - Economics and Management

### Commentary:

In the Bachelor Study Programme 6 students received a Diploma with Distinction. There were 20 students awarded the FT Dean Award for their excellent Bachelor Thesis.

In the Master Study Programme 2 students received a Diploma with Distinction. There were 26 students awarded the FT Dean Award for their excellent Master Thesis.

Other awarded prizes were: TBU Rector's Award - 1; Award of Tajmac-ZPS Zlín - 1; TBU Foundation - 1; Zlín Mayor's Award - 1; Czech Shoemaking Association Award - 2; HELLA Firm Award Autochemik Mohelnice - 3; Award of the Association for the Development of Zlín Region, GTS International - 1.

### Bachelor Study Programmes Taught at the TBU Off-Sites

Faculty of Technology also teaches at off-site workplaces at the High Industrial School in Přerov and at the High Industrial School of Machinery in Vsetín. The number of students at these workplaces is in the following tables.

## Remote Workplace in Přerov - Bachelor Study Programme Engineering Informatics

Table No. 35	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year
	18	11	(classes hold in Zlín)

## Remote Workplace in Vsetín - Bachelor Study Programme Process Engineering

Table No. 36	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year
	20	17	26

During the 2004/5 academic year, the studies were started at the remote place at the High Professional School in Kroměříž. The taught study programme is Chemistry and Food Technology with the areas Technology and Gastronomy Controlling. The numbers of students are stated in the following table.

### Remote Workplace in Kroměříž - Bachelor Study Programme Chemistry and Food Technology

Table No. 37	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year
	89	0	0

#### 11.1.4 Innovation and Accreditation of Study Programmes of FT, Student's Possibilities at the Labour Market

During 2004, there were accredited the following - in bachelor study:

- Study programme Engineering Informatics - course Security Technologies, Systems and Management in the full time and combined form of studies.
- Study programme Process Engineering - course Technological Equipment - in combined form of studies.

During the year of 2004 were accredited the following study programmes in the master study:

- Study programme Engineering Informatics, course Information Technologies - combined form of studies and a course Automatic Control and Informatics in the combined form of studies.

During the 2004 the innovation of the study programme Chemistry and Materials Technology continued. The innovation was devoted to the increase of English lessons and the implementation of the completed and complex system of economic classes. These changes are going to be presented at the accreditation in 2005. According to the available information, the potential employers are highly interested in the FT graduates, there were no problems while finding jobs.

#### Study Opportunities for Disabled Students

During 2004, the preparation of study courses Information Technologies for Aurally Impaired and Physically Disabled. The courses are going to be open during the 2005/6 year.

#### 11.1.5 Research and Development at FT

##### The Main Areas of Research at the Faculty of Technology Are the Following Ones:

The Directions of the Research and Development at the Faculty

- characteristics of polymer systems,
- study of material division processes with a wire tool using dispersion of polymeric systems,
- the research of technological processes controlling,
- study of spontaneous processes in biopolymer gel levels
- study of acoustic characteristics of transitional systems and spumoid systems,
- minimization of the influences of industrial wastes on the environment,
- processing of collagen sources,
- issues of healthy footwear,
- bio-polymers as a part of food compositions.

During the year of 2004, significant results were achieved not only in the area of quantitative descrip-

tion of processes and systems, but also in the field of practical use of the research outcomes. Mutual communication between individual departments improved, as did the equipment of the Faculty and, consequently also the economical level of research and development activities.

The options for application of chosen groups of polymers as a part of industrial aid tools in the consumer industry were studied. The implementation of trial production of three products is prepared.

The research is organized at particular departments through participating in the research frame work (4 of them during 2004), at grant projects of the Ministry of Education, Youth and Sports, Czech Ministry of Industry and Trade, and other legislative subjects that are involved in grant support of this type, as a part of the 6<sup>th</sup> Frame Work (ÚFMI).

## Focus of Research and Development Activities at the FT Departments and Workplaces

Research at FT is organized at the departments and at the Polymer Centre. The research activities were financially secured with sources from the project assigners, including international projects and sources for specific research.

### Department of Physics and Materials Engineering

- Applied acoustics and mechanics of bodies
- Computer modeling
- Characterization of dielectric properties of materials
- Sorption/adsorption phenomena at the solid/liquid and solid/gas interfaces
- Applied plasma chemistry and physics of plasma
- Preparation and characterization of thin-layers
- Measurement of tensile behavior of materials
- Applied colloidal and surface chemistry

### Department of Mathematics

- Differential Equations
- Universal algebra and theory of unions
- Numerical mathematics – final elements method
- Statistics
- University and high school didactics of mathematics

### Department of Polymeric Engineering

- Study of nano-composite polymer/clay systems with the focus on the mechanism of the intercalation theory. Preparation, intercalation, compounding, correlation of properties and process mechanisms, study of structures of nano-composite systems, application
- Thermo-fixation technology, application of general rules for process description, modeling of basic technological units
- Correlation of technical conditions for processing with the structure and properties of polymer systems,
- Monitoring of mixing process
- Extrusion and unstable flows of polymers
- Composites with polymer matrices and their properties
- Thermo-mechanical analyses of polymer systems
- Structure and properties of liquid crystals
- Intelligent polymeric materials

### Department of Engineering and Shoe Hygiene

- Processing and utilization of wastes from leather processing and meat industry
- Healthy footwear, development and testing of special prophylactic shoes for diabetics, biomechanics of a shoed foot

- Adhesion of shoemaking materials and its optimization
- Studies of historical samples of footwear and leather products
- Clean technologies – environmentally acceptable variants of disposal of solid wastes from tanning

### Department of Environment Protection Engineering

- Environmental problems – research into methods and their application for assessing xenobiotics, their behaviour and fate in a biotic environment
- Practical work (project for launching biotechnologies) on concrete solutions problems of factories
- Research into remediation of waters and soils contaminated with chlorinated hydrocarbons
- Assessing the biodegradation of polymeric substances in an aerobic and anaerobic environment, insoluble or partly soluble in an aqueous environment
- Stabilization/solidification of solid and liquid wastes using inorganic and organic binders
- Research on application of biological ecotoxicity tests for assessing waste hazard and waste stabilization performance
- Research of geo-polymers and their application options
- Coordination, fulfilment, presentation of international scientific-research projects – Climatic changes and natural conditions of Central Asia

### Department of Food Engineering and Chemistry

- Research of nutritional food, nutrients in relation to technologies and storage
- Securing food in crisis situations
- Study of factors that effect sensory features of food
- Solutions of biological effects of proteins and fat
- Manufacturing economics, its application in food industry and gastronomy

### Department of Production Engineering

- Composites with polymer matrices and their characteristics
- Production machines and equipment
- Modeling of mechanical behaviour of polymers and structural analysis of products of polymer materials and composites with polymer matrices
- Non-conventional methods dealing with polymer materials, composites and metal
- Surface adjustment of forms, pressed heads and other metal parts

### Institute of Process Controlling and Applied Informatics

- Application of modern automatic control methods on control of control of linear and non-linear technological processes
- Decentralized monitoring and control systems on the basis of microcomputers and industrial computers
- Design and implementation of single-purpose micro-computer regulators
- Modeling of tanning processes with regard to their automatic control
- Instrumental technology, non-electric variables scanning, and signal processing
- Automation in power plant engineering with special focus on centralized heat distribution, control of combined electrical energy and heat distribution, control of combined electrical energy and heat production, heat distribution control
- Application of Artificial Intelligence methods in process control
- Software engineering

### Polymer Centre

- Rheology of polymer melts and suspensions
- Electrorheology
- Non-stable polymer flows
- Molecular electronics
- Thermodynamics of polymer systems
- Physical aging
- Highly filled polymers, bio-degradable polymers
- Polymer mixture
- Perlocation events, inter-phase events, and intelligent features

Results of the research are centred to the application and basal research and are applicable especially in rubber and plastic industry, automobile industry, health care and medicine, agriculture, textile and food industry.

## Important Cooperation FT in the Research and Development with Companies and Institutions in the CR

Academy of Sciences, CR, Prague, Department of Macromolecular Chemistry

Academy of Sciences, CR, Prague, Department of Rock Structure

Academy of Sciences, CR, Prague, Department of Animal Physiology and Genetics

Academy of Sciences, CR, Prague, Department of Hydrodynamics

Academy of Sciences, CR, Prague, Department of Analytical Chemistry

Czech Technical University, Prague

Institute of Chemical Technology, Prague

Palacký University, Olomouc

University Pardubice

Technical University in Brno

Masaryk University Brno

University of Defense, Brno

Mendel Agriculture and Forestry University, Brno

Veterinary and Pharmaceutical University, Brno

Research Department of Organic Synthesis, Pardubice

Centre of Airspace and Universe Research, Technical University, Brno

Institute for testing and certification, a. s., Zlín

Ministry of Defense, CR, Prague

Ministry of Interior, CR, Prague

Centroprojekt, a. s., Zlín

Vodní zdroje, a. s., Holešov

Alliachem, a. s., Pardubice

I&C Energo, s. r. o., Třebíč

Terex-Tatra, a. s., Kopřivnice

SOLARTEC, s. r. o., Rožnov pod Radhoštěm

EPOS, s. r. o., Želechovice, Zlín

Intercaps, s. r. o., Zlín

TESCOMA, s. r. o., Zlín

Český mák, a. s.

Strojírna Pálava, a. s., Kladno

Frigoprina, s. r. o.

Bajer a spol., s. r. o.

Laksyma, a. s.

RADANAL, s. r. o.

## FT Involvement in Research Plans and Projects

Table No. 38 Research Project (Abbreviated Title)	Total (in thousands CZK)
Automation of Technologies and Manufacturing Processes	1,930
Minimization of the Influences of Industrial Wastes upon the Environment	2,542
New Technologies and Ecological Trends in Processing of Natural Polymers	4,058
Progressive Polymeric Systems and Technologies	12,983

## FT Involvement in Projects Financed from Specific Resources

Resources Provider / Type of Project	Number of Projects	Allocated Resources (in thousands CZK)
<b>Grant Agency of the CR</b>		
Resources provided to head researchers	12	4,229
Resources provided to fellow-researchers	4	992
<b>Grant Agency of the Academy of Sciences CR</b>		
Other departments - besides the		
Ministry of Education, Youth and Sports	2	558
MPO ČR - co-researchers	5	993
State Fund of the Environment CR	1	3.5
<b>International Cooperation</b>		
ME - KONTAKT	4	801
AIP Prague	3	37
EUREKA	1	600

## Important International Cooperation of FT in the Area of Research and Development

Project 5 RP EU G1RD-CT-2002-00772

*“Radial Environmentally Sustainable Tannery Operation by Resource Management – RESTORM”*

Responsible researcher: Prof. Ing. K. Kolomazník, Dr.Sc.

Project 5 RP EU-GIRD-CT-2000-00471

*“System Analysis for the Production of Technical Rubber Goods and Tires”*

Responsible researcher: Doc. Ing. M. Maňas, CSc.

Project 6 RP EU ASA3-CT-2004-510981

*“Support for SMEs Collaborative Aeronautical Technical Research” (SCRATCH PHASE IV)*

Responsible researcher: Prof. Ing. L. Lapčík, Ph.D. – head of the group CR

Project 6 RP EU RS240361

*“Nanostructures and Functional Polymer-based Materials and Nanocomposites” (NANOFU)*

Responsible researcher: Prof. Ing. J. Šimoník, CSc.

*“Topic Centre of Good Practice – Candidate Countries”*

Project for candidate countries of EU – section of social psychology

Responsible researcher: Prof. PhDr. H. Vykopalová, CSc.

## FT Involvement in 5<sup>th</sup> and 6<sup>th</sup> Frame Programmes

Provider / Type of Project	Number of Projects	Allocated Resources (in thousand CZK)
5 <sup>th</sup> Frame Programme	2	1,184
6 <sup>th</sup> Frame Programme	2	588

## Other International Cooperation of FT

ÖFI Technology & Innovation GmbH (Ltd), Vienna, Austria

University of Zagreb, Zagreb, Croatia

Laboratory of Macromolecular Materials, INSA, Lyon, France

University of Trencin, Faculty of Industrial Technology, Puchov, Slovakia

Blaise-Pascal University, The Graduate School of Chemistry and Chemical Engineering of Clermont-Ferrand, Clermont-Ferrand Cedex, France

University of Veszprém, College of Mechanical Engineering and Automatization, Kecskemet, Hungary  
 The Technical University of Kosice, Faculty of Manufacturing Technologies, Presov, Slovakia  
 Cracow University of Technology, Cracow, Poland  
 The Technical University of Kosice, Kosice, Slovakia  
 University of Miskolc, Miskolc-Egyetemváros, Hungary  
 Vienna University of Technology, Vienna, Austria  
 University of Paderborn, Paderborn, Germany  
 Trelleborg Industri AB, Trelleborg, Sweden  
 University of Twente, Enschede, Netherlands  
 Krupp Elastomertechnik GmbH, Freudenberg, Germany  
 East China University of Science and Technology, Shanghai, China  
 Chalmers University of Technology, Göteborg, Sweden  
 Indian Institute of Technology, New Delhi, India  
 Instituto Politecnico Nacional, Mexico City, Mexico  
 National Institute of Advanced Industrial Science and Technology, Macromolecular Technology Research Centre, Tsukuba, Japan  
 Institute of Radioengineering and Electronics, Moscow, Russia  
 Sardar Patel Renewable Energy Research Institute, Vallabh Vidyanagar, Gujarat, India  
 Sichuan University, The State Key Laboratory of Polymer Materials Engineering, Sichuan, China  
 University of Bradford, Bradford, Great Britain  
 University of Ljubljana, Ljubljana, Slovenia  
 University of Waterloo, Ontario, Canada  
 EUROHEAT@POWER, Unichal, Brussels, Belgium  
 University of Applied Science Zittau/Görlitz, Institute of Process Technique, Process Automation and Measuring Technique, Zittau, Germany  
 Fernwärme Wien, Vienna, Austria  
 Technical University of Catalonia, Department of Chemical Engineering, Barcelona, Spain  
 CORYS T.E.S.S., Grenoble, France  
 Brandenburg University of Technology Cottbus, Cottbus, Germany  
 Korean Institute of Electrical Engineers, Seoul, Korea  
 University of Calgary, Calgary, Canada  
 Universidad Autonoma De Occidente, Cali, Colombia  
 The Institut National des Télécommunication, Handicom Laboratory, Cedex, France  
 Stanford University, Department of Mechanical Engineering, Telerobotics Laboratory, Medical Robotics and Surgery, Stanford, Great Britain  
 VA Department, Robotics Research and Development Laboratory, Palo Alto HCS, USA  
 University of Craiova, Craiova, Romania  
 Universidade Técnica de Lisboa, Lisboa, Portugal  
 University of Strathclyde, Glasgow, Great Britain  
 Budapest University of Technology and Economics, Budapest, Hungary  
 The Open University Oxford, Oxford, Great Britain  
 Slovak University of Technology, Bratislava, Slovak Republic  
 Politecnico di Milano Technical University, Milano, Italy  
 Salesian University of Gliwice, Gliwice, Poland  
 University of Applied Sciences, Cologne, Germany  
 Lapperaanta University of Technology, Lapperaanta, Finland  
 University of Aveiro, Aveiro, Portugal  
 University College Northampton, Northampton, Great Britain  
 VIPO A/S, Partizanske, Slovak Republic  
 CNRS - ENSIS, Nancy, France  
 LAAS - CNRS, Toulouse, France  
 US Department of Agriculture, Eastern Regional Research Centre, Philadelphia, USA  
 Research Institute for Leather and Artificial Leather Technology Ltd., Freiberg, Germany  
 University of Pisa, Department of Chemistry and Industrial Chemistry, Pisa, Italy  
 A/S Eccolet Sko, Bredebro, Denmark  
 Industrial Iguualadina, S. L., Iguualada, Spain  
 Biotim-A Division of Fabrocom Air Conditioning, Wilrijk, Belgium  
 University of Westminster, London, Great Britain  
 CSIC, Madrid, Spain  
 RWTH Aachen, Aachen, Germany  
 Eagle Ottawa Warrington Ltd., Great Britain  
 Slovak Academy of Science, Bratislava, Slovak Republic  
 University of Budapest, Budapest, Hungary  
 LIRMM Montpellier, Cedex, France  
 University of Delhi, Delhi, India  
 New Jersey Institute of Technology, Newark, USA  
 Research Centre for Advanced Waste and Emission Management, Nagoya University, Japan  
 Russian Academy of Sciences, Moscow, Russia  
 Altai State University, Barnaul, Russia  
 University of London, London, Great Britain  
 Memorial University St. John's, St. John's, Canada  
 University of Alberta, Edmonton, Canada  
 University of Bijsk, Bijsk, Russia  
 University Karaganda, Kazachstan, Russia  
 University of Zilina, Zilina, Slovak Republic  
 University of Warmia and Mazury, Olsztyn, Poland

## 11.1.6 Successful Graduates of the Doctoral Study Programmes at FT

Table No. 41 Graduate	Dissertation Title	Tutor	Defense Date
<b>Study Programme P2808 Chemistry and Materials Technology</b>			
<b>Study Course 2808V006 Technology of Macromolecular Substances</b>			
Ing. Natálie Zdražilová, Ph.D.	Rheological Response to the Structural Modification of Polymer-Based Materials	Prof. Ing. P. Sába, CSc.	20. 2. 2004
Ing. Marián Lehotský, Ph.D.	Deposition/Detachment Phenomenon of Micro-Particles at Solid Polymer/Liquid Interface	Prof. Ing. L. Lapčík, Ph.D.	19. 3. 2004
Ing. Jitka Homolková, Ph.D.	Testing of Anti-Mycosis Modification of Materials for Prophylactic Shoes	Doc. Ing. P. Hlaváček, CSc.	9. 4. 2004
Ing. Lenka Ostravská, Ph.D.	Optimization of Shoe Glue Drying	Doc. Ing. P. Hlaváček, CSc.	21. 9. 2004
Ing. Oyunchimeg Zandraa, Ph.D.	Development of Special Shoes for Diabetic Population in Mongolia	Doc. Ing. P. Hlaváček, CSc.	21. 9. 2004
Ing. Lubomír Slovák, Ph.D.	Studies of Volcanic Systems for Rubber without Nitrosamine	Doc. Ing. J. Špaček, CSc.	30. 9. 2004
Ing. Tomáš Sedláček, Ph.D.	Pressure Dependence of Polymer Melts Rheological Properties	Prof. Ing. P. Sába, CSc.	2. 11. 2004
Ing. Tomáš Honek, Ph.D.	Rheology of Highly Filled Polymeric Systems	Prof. Ing. P. Sába, CSc.	2. 11. 2004
Ing. Marie Dvořáčková, Ph.D.	De-Protein of Chromium Sludge in Recycling	Prof. Ing. J. Kupec, CSc.	17. 12. 2004
Ing. Markéta Julinová, Ph.D.	Evaluation of Degradation of Polymeric Materials in Biotic Environment	Doc. Ing. J. Hoffmann, CSc.	17. 12. 2004
Mgr. Roman Dlabaja, Ph.D.	Plasma Modification of Material Features	Prof. Ing. L. Lapčík, Ph.D.	20. 12. 2004
Ing. Vladislava Hořáková, Ph.D.	Hybrid Composite Materials: Physico-chemical Study of the Filler Mineral Matrix	Prof. Ing. L. Lapčík, Ph.D.	20. 12. 2004
Ing. Petr Tomeček, Ph.D.	Interfacial Surface: Characterization, Physical and Chemical Modification, Application	Prof. Ing. L. Lapčík, DrSc., dr. h. c.	20. 12. 2004
<b>Study programme P2807 Chemical and Process Engineering</b>			
<b>Study course 2612V045 Technical Cybernetics</b>			
Ing. Lubomír Macků, Ph.D.	Proposal of Preparation Controlling Regenerate for Tanning	Prof. Ing. K. Kolomazník, DrSc.	17. 2. 2004
Ing. Marek Dlapa, Ph.D.	Polynomial $\mu$ -synthesis and its Application to Unidentified Systems and Processes	Prof. Ing. R. Prokop, CSc.	16. 4. 2004
Ing. František Gazdoš, Ph.D.	Adaptive Control of Nonlinear Multivariable Systems: Plant-parametrization Approach	Prof. Ing. P. Dostál, CSc.	16. 4. 2004
Ing. Pavel Navrátil, Ph.D.	Informational System CAAC - Computer Support of Automatic Controlling	Prof. Ing. J. Balátě, DrSc.	10. 6. 2004
Ing. David Janota, Ph.D.	Just-in-Time Models in Adaptive Control	Prof. Ing. V. Bobál, CSc.	2. 7. 2004



### 11.1.7 Publication and R&D Activities at FT

Table No. 42 Type	ÚFMI	ÚM	ÚIP	ÚIHO	UIOŽP	ÚVI	IRPI	CPM	ÚPICH	Number
Monographs or a chapter in one of them	0	0	0	0	0	0	3	0	1	4
Contributions in international scientific journals	8	1	9	4	4	0	10	20	9	65
Contributions in Czech and Slovak journals	3	0	4	12	4	0	14	0	8	45
Contributions at international conferences in a foreign language	3	6	31	10	9	38	74	40	8	219
Contributions at domestic conferences	14	4	20	36	12	11	45	11	15	168
Others - patents, engineering, artistic and other works	5	0	0	0	0	0	0	0	0	5
Textbooks	3	4	0	0	2	1	3	0	1	14
Dissertations	4	0	0	4	3	0	5	3	3	22
Habilitation Thesis	0	0	2	0	1	0	3	2	0	8
<b>Total</b>	<b>40</b>	<b>15</b>	<b>66</b>	<b>76</b>	<b>35</b>	<b>50</b>	<b>157</b>	<b>66</b>	<b>45</b>	<b>550</b>

**Note:**

ÚFMI - Department of Physics and Material Engineering

ÚM - Department of Mathematics

ÚIP - Department of Polymeric Engineering

ÚIHO - Department of Engineering and Shoe Hygiene

UIOŽP - Department of Environment Protection Engineering

ÚVI - Department of Production Engineering

IRPI - Institute of Process Controlling and Applied Informatics

CPM - Polymer Centre

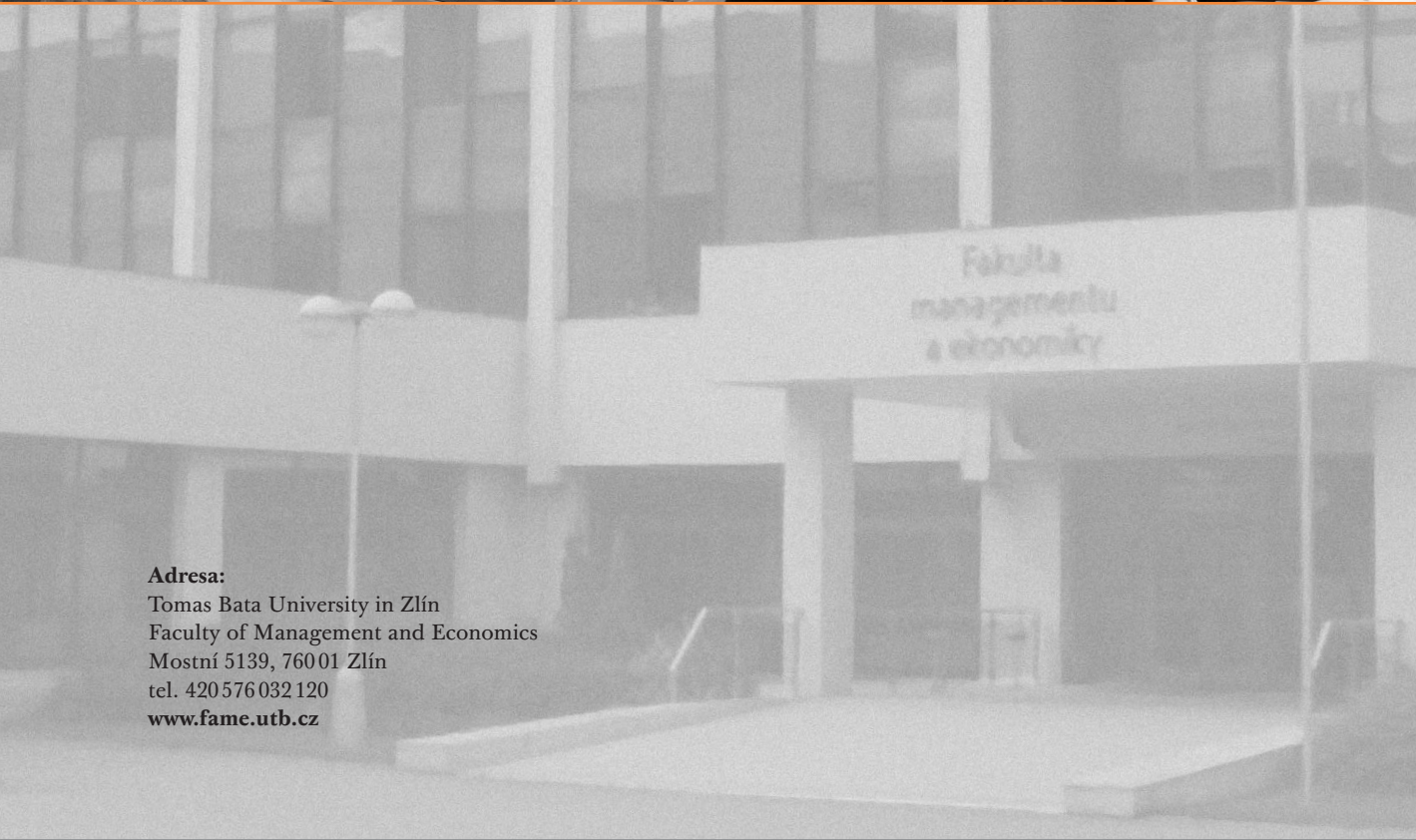
ÚPICH - Department of Food Engineering and Chemistry

### 11.1.8 International Cooperation of FT

The FT departments cooperate with a number of foreign universities and scientific institutions in R&D activities, and exchange students, teachers, and scientific workers. The Faculty cooperation with other universities within the framework of the Socrates/Erasmus programme is dealt with in the Chapter 10, International Cooperation in Education.

### 11.1.9 Habilitation and Professorial Nomination Procedures at FT

See Chapter 8.4.



**Adresa:**

Tomas Bata University in Zlín  
Faculty of Management and Economics  
Mostní 5139, 76001 Zlín  
tel. 420 576 032 120  
[www.fame.utb.cz](http://www.fame.utb.cz)

## 11.2 Faculty of Management and Economics

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### Dean

Doc. PhDr. Vnislav NOVÁČEK, CSc.

### Vice-Deans

Doc. Ing. Roman BOBÁK, Ph.D.

*Vice-Dean for R&D and Public Relations, Statutory Deputy*

PhDr. Milan MIKULÁŠTÍK, Ph.D.

*Vice-Dean for Full Time Studies*

Doc. Dr. Ing. Drahomíra PAVELKOVÁ

*till May 30, 2004*

Doc. PhDr. Ing. Aleš GREGAR, CSc.

*from June 1, 2004*

*Vice-Dean for Combined Studies and Lifelong Learning*

RNDr. Bedřich ZIMOLA

*Vice-Dean for International Relations*



### Academic Senate

Ing. Vratislav KOZÁK, Ph.D.

*Head*

### Scientific Board

Doc. PhDr. Vnislav NOVÁČEK, CSc.

*Head*

### Secretary

Ing. Zdeněk RAŠKA

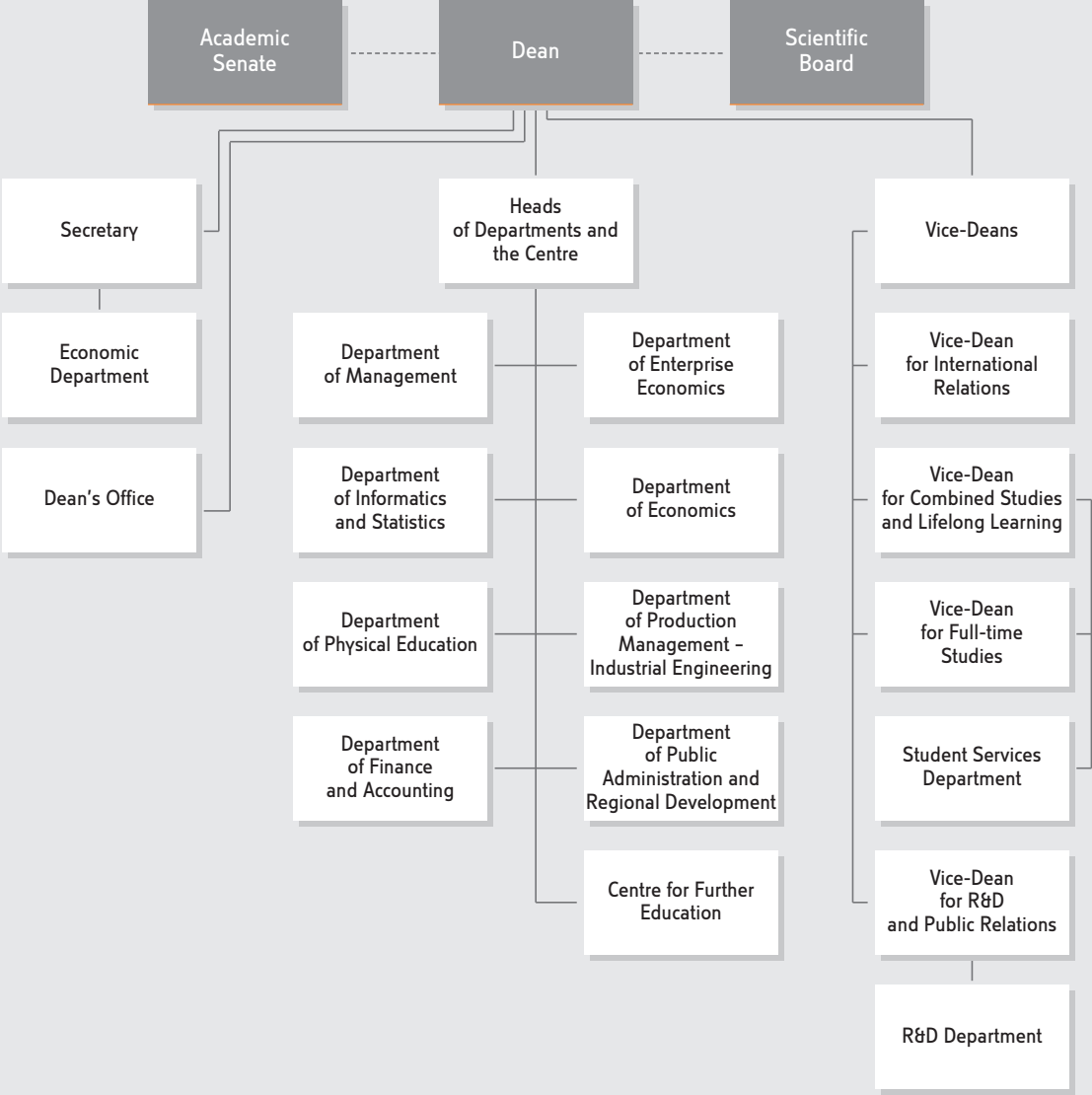
### Head of the Study Programmes Board and the Lifelong Learning Board

Doc. PhDr. Alois GLOGAR, CSc.

### Head of the Doctoral Programme Board

Prof. Ing. František TRNKA, CSc.

### 11.2.1 Organizational Structure of the Faculty of Management and Economics



## 11.2.2 FaME Departments and Centre

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### Departments of Economics

Head: Doc. Ing. Jitka KLOUDOVÁ, Ph.D.

### Department of Management

Head: Prof. Ing. Ján PORVAZNÍK, CSc.

### Department of Finance and Accounting

Head: Doc. Dr. Ing. Drahomíra PAVELKOVÁ

### Department of Enterprise Economics

Head: Ing. Miroslav VRÁBLÍK, *till February 28, 2004*

Ing. Kateřina BOČKOVÁ, Ph.D., *from March 1, 2004*

### Department of Informatics and Statistics

Head: Prof. Ing. Zdeněk MOLNÁR, CSc., *till June 30, 2004*

Doc. Ing. Rudolf POMAZAL, CSc., *from July 1, 2004*

### Department of Public Administration and Regional Development

Head: Doc. RNDr. René WOKOUN, CSc.

### Department of Production Management - Industrial Engineering

Head: Doc. Ing. Roman BOBÁK, Ph.D.

### Department of Physical Education

Head. Mgr. Zdeněk MELICHÁREK

### Centre for Further Education

RNDr. Bedřich ZIMOLA

## 11.2.3 FaME Study Programmes

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### Bachelor Study Programmes

#### B 6208 Economics and Management

*Courses*

Management and Economics

Marketing\*

Financial Management of Enterprise\*

full time and combined studies

#### B6202 Economic Policy and Administration

*Courses*

Public Administration and Regional Development

Public Economics and Administration\*)

full time and combined studies

\*) Programmes guaranteed by TBU and taught at the Tomas Bata Business Academy and the Higher Professional School of Business in Zlín

### Follow-Up Master Study Programmes

#### N 6208 Economics and Management

full time and combined studies

#### N 6202 Economic Policy and Administration

*Course*

Finances

full time and combined studies

#### N6202 Economic Policy and Administration

*Courses*

Management and Marketing

Enterprise Economics

Industrial Engineering

full time and combined studies

### Doctoral Study Programme

#### P 6208 Economics and Management

*Course*

Management and Economics

full time and combined studies

## Lifelong Learning Programmes

The Faculty offers all accredited study programmes and courses in the lifelong learning programmes besides the courses offered by the Tomas Bata Business Academy and the Higher Professional School of Business in Zlín.

### Bachelor Study Programmes

#### B6208 Economics and Management

Course

Management and Economics

#### B 6202 Economic Policy and Administration

Course

Public Administration and Regional Development

### Follow-Up Master Study Programmes

#### N 6208 Economics and Management

Courses

Management and Marketing

Enterprise Economics

Industrial Engineering

#### N 6202 Economic Policy and Administration

Course

Finances

There were 24 students of the bachelor course Management and Economics and 17 of Public Administration and Regional Development in the Lifelong Learning Programmes in 2004. There were 88 students of Economics and Management and one student of Economic Policy and Administration – course Finances in the master study programme. All together there were 130 students of the Lifelong Learning Programmes.

As a part of the Lifelong Learning Programmes the Faculty offered preparatory courses for the prospective students of bachelor study programmes. The Department of Public Administration and Regional Development offered its own accredited programme for the education of public administration officers in 2004.

### Applicant Interest in FaME Bachelor Study Programmes

Table No. 43 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
EM	B 6208	1,738	1,204	427	427	298
MAR	B 6208	294	238	138	138	110
FRP	B 6208	266	213	130	130	93
VSRR	B 6202	408	272	109	109	82
VES	B 6202	117	95	50	50	44
<b>Total</b>		<b>2,823</b>	<b>2,022</b>	<b>854</b>	<b>854</b>	<b>627</b>

### Applicants Interest in FaME Follow-Up Master Study Programmes

Table No. 44 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
MM	N 6208	411	304	220	220	186
PE	N 6208	157	99	90	90	83
PI	N 6208	33	18	29	29	28
FI	N 6202	194	97	128	128	127
<b>Total</b>		<b>795</b>	<b>518</b>	<b>467</b>	<b>467</b>	<b>424</b>

#### Note:

- <sup>1)</sup> Total number of applications received.
- <sup>2)</sup> Number of applicants for study. The figures express the number of individuals, the study courses totals include multiple application (i.e. students applying for more than one course).
- <sup>3)</sup> Number of applications responded to positively.
- <sup>4)</sup> Number of applicants accepted for studying. The figures express the total number of individuals, the study courses totals include applicants accepted to more than one course.
- <sup>5)</sup> Number of accepted students who registered to start their studies.

## Number of Students at FaME

Table No. 45 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
EM	B, N, P 6208	921	625	91	1,637
MAR	B 6208	380	-	-	380
FŘP	B 6208	383	-	-	383
HPS	B, N 6202	275	127	-	402
VES	B 6202	62	-	-	62
<b>Total</b>		<b>2,021</b>	<b>752</b>	<b>91</b>	<b>2,864</b>

## Number of International Students at FaME, Including Students from Slovakia

Table No. 46 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
EM	B, N, P 6208	75	49	-	124
MAR	B 6208	21	-	-	21
FŘP	B 6208	7	-	-	7
HPS	B, N 6202	1	9	-	10
VES	B 6202	0	-	-	-
<b>Total</b>		<b>104</b>	<b>58</b>	<b>-</b>	<b>162</b>

## Number of FaME Graduates

Table No. 47 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
EM	B, N, P 6208	226	194	8	428
MAR	B 6208	79	-	-	79
FŘP	B 6208	105	-	-	105
VSSR	B 6202	25	-	-	25
VES	B 6202	0	-	-	0
<b>Total</b>		<b>435</b>	<b>194</b>	<b>8</b>	<b>637</b>

### Note:

EM – Economics and Management

FI – Finances

FŘP – Financial Management of Enterprise

HPS – Economic Policy and Administration

MAR – Marketing

MM – Management and Marketing

PE – Enterprise Economics

PI – Industrial Engineering

VES – Public Economics and Administration

VSSR – Public Administration and Regional Development

### Commentary:

10 students received their Diploma with Distinction and 8 students received their Diploma with Praise. 12 students were awarded for outstanding Bachelor Thesis.

In the Master Programme, 3 students received their Diploma with Distinction, 26 students their Diploma with Praise. 16 Master Thesis were awarded.

Following awards were awarded: Rector's Award – 1, Tajmac-ZPS – 2, Zlín Mayor's Award – 1, Tomas Bata Foundation Award – 1.

## 11.2.4 Innovation and Accreditation of Study Programmes of FaME, Student's Possibilities at the Labour Market

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During 2004, partial changes of study programmes for the academic year of 2004/5 were discussed at the meetings of the Study Programmes Board and the Faculty Scientific Board. The final version was afterwards published in the information brochure Study Programmes 2004/5 and in the electronic form of the Faculty web site. Innovations were directed to lowering the amount of lessons, and ensuring relations between individual disciplines.

### **New bachelor, master and doctoral study programmes**

In 2003 a master degree programme N6202 Economic Policy and Administration, course Finances (passed by the Accreditation Board on November 25, 2003, valid till December 5, 2007) in the full time and combined form. The classes started during the 2004/5 academic year. Tomas Bata Business Academy and the Higher Professional School of Business in Zlín co-applied, together with the Faculty for the accreditation of the bachelor study programme B6202 Economic Policy and Administration, in the full time form (passed by the Accreditation Board on March 11-12, 2003) valid till 2007 with a check-up after two years). The courses started in the full time form in 2003/4. During 2004 The Board of Study Programmes discussed and prepared for the Scientific Board of the Faculty material for the accreditation of the study programme Public Administration and Regional Development with a follow-up study programme N 6202 Economic Policy and Administration in the full time form of study.

Finished materials will be available for the discussion at the Scientific Board, and after that presented to the Accreditation Board during 2005.

### **New tendencies in the preparation of teachers of all school levels**

During the year of 2004, the workers activities of

preparing e-learning forms of teaching in the distant form of study continued. As a part of the transformational and developmental project of the Ministry of Education, Youth and Sports 15 workers of the Faculty and Tomas Bata Business Academy, and the Higher Professional School of Business in Zlín finished the distant form of studies. At the end of the year 10 more workers signed up for an e-learning course „Introduction to the distant education“ run by the CDV ZČU Plzeň at the web site <http://sparta.zcu.cz>. During the year the work on distant educational tools continued, also with the virtual education programme EDEN, financed by FRVŠ sources (Universities Development Fund).

The offer of the study courses in the combined and full time form of studies Economics and Management, and Economic Administration reflects the needs of the labour market in the Zlín Region. The enlarging of the offer variety in the bachelor study programmes is also helped by the Tomas Bata Business Academy and the Higher Professional School of Business in Zlín when working on bachelor study programmes guaranteed by the faculty. It is one of the functional systems at the Czech universities praised by the Ministry of Education, Youth and Sports and the Accreditation Board.

For the enlargement of the offer the faculty started new courses of lifelong learning in bachelor and master study programmes in 2004 - Economics and Management, Economic Policy and Administration. The courses take place at FaME and also with cooperation with the School Open in Dubnice nad Váhom. The faculty also participates on the TBU Third Age University education.

## 11.2.5 Research and Development at FaME

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### **The Long-Term Research at FaME Concerns the Following Areas:**

- a) Formulating of the theoretical principles and start-up points for the conception of the industrial policy of the future Euro-region in the context of the Czech economy globalization.
- b) Development of methodological materials for implementing programmes for enterprise processes modernization leading to the increase of the enterprises competitive abilities.
- c) Development of information systems supporting production and operations management, economic analyses, product planning, organizational changes planning, logistic material flow planning, production management, work organization and measurement, and maintenance of plant and equipment.



## Focus of Research and Development Activities at FaME Departments and Workplaces

### Department of Management

- Human Resources management and personnel management
- General marketing and marketing management methodology, marketing and management of advertising
- Legal and environmental aspects of international management

### Department of Enterprise Economics

- Enterprise economics and management
- Innovation management
- Competitive abilities of small and medium-sized enterprises

### Department of Economics

- Macroeconomic and microeconomic contexts of the globalization process
- Status of regions within EU
- Theory of competitive abilities

### Department of Informatics and Statistics

- Information technologies and computer-assisted business activities
- Informational support of marketing management in marketing information systems

- Theory of probability, mathematical and economic statistics, quantification and optimization methods in business activities

### Department of Finance and Accounting

- Financial management of enterprises
- Engineering economics (accounting, taxes, controlling)
- Capital markets and enterprise economics

### Department of Public Administration and Regional Development

- Public and Regional Administration
- Regional economics

### Department of Production Management - Industrial Engineering

- Operation (production) engineering, production planning and management, logistics with the use of integrated information and management systems
- Performance measurement and operations management, productivity, processes improvement
- Total quality management

### Department of Physical Education

- Testing the physical performance levels of the population

## International Cooperation in the Research and Development

As a part of the programme AKTION - CZECH REPUBLIC - AUSTRIA, the cooperation in science and education, an application was submitted and accepted to the Project Analyses of competitiveness Czech enterprises before entering the EU (July 2002 - November 2003).

The participants were Tomas Bata University, Faculty of

Management and Economics, Ing. Vratislav Kozák, Ph.D. and Vienna University of Economics and Business Administration, partner, cooperation Univ. Prof. Dr. Reiner Springer. The results were presented at the 1st international conference on university cooperation, organizations, enterprises, and public administration of Zlín Region on April 28-29, 2004.

## FaME Involvement in Research Plans and Projects

Table No. 48 Research Plan	Allocated Resources for 2004 (in thousands CZK)
Research into Competitive Abilities of Czech Industrial Manufactures	3,200

## FaME Involvement in Projects Financed from Specific Resources and Other Resources

Table No. 49 Grant	Program Title	Number of Projects	Allocated Resources (in thousands CZK)
GA ČR	Standard Project	1	477
MMR ČR	Programme Research for the Regional Needs	1	1,540
MV ČR	Research Project VA 20042004003	1	200
<b>Total</b>		<b>3</b>	<b>2,217</b>

## 11.2.6 Successful Graduates of Doctoral Study Programmes at FaME

Graduate	Title of the Dissertation	Tutor	Defense Date
Ing. Zuzana Dohnalová, Ph.D.	Models of Interest Groups in an Enterprise	Doc. PhDr. V. Nováček, CSc.	7. 4. 2004
Ing. Romana Vítková, Ph.D.	The Options of Bata Management	Prof. Ing. F. Trnka, CSc.	20. 5. 2004
Ing. Jiří Verberger, Ph.D.	Methodology and Analyses of Optimization and Automation of Enterprise Processes	Prof. Ing. F. Trnka, CSc.	9. 7. 2004
Ing. Radmila Soukalová, Ph.D.	Benchmarking as an Informational Tool on Competitiveness	Doc. PhDr.D. Pavlů, CSc.	9. 7. 2004
Ing. Zuzana Holočiová, Ph.D.	Effective Controlling of Services of Small and Mid-Sized Firms	Doc. Ing. L. Hromková, CSc.	9. 7. 2004
Ing. Jaromír Černý, Ph.D.	Optimization of Manufacturing, Distribution and Sales	Prof. Ing. F. Trnka, CSc.	5. 11. 2004
Ing. Hana Šedová, Ph.D.	The Usage of Banking Products and Services to Increase the Productivity and Competitiveness of Small and Mid-Sized Firms	Doc. Dr. Ing. D. Pavelková	7. 7. 2004
Ing. Roman Rais, MBA, Ph.D.	Crisis as a Part of Open Market Economics	Prof. Ing. F. Trnka, CSc.	20. 5. 2004

## 11.2.7 Publication and R&D Activities at FaME

Characteristics	ÚM	ÚPE	ÚIS	ÚE	ÚFÚ	ÚPI	ÚVS	ÚTV	Total
Monographs or a chapter in one of them	9	2	0	1	1	1	0	0	14
Contribution in international scientific journals	0	0	0	0	0	0	0	0	0
Contributions in Czech and Slovak journals	13	11	3	3	4	13	1	0	48
Contributions at international conferences in a foreign language	16	15	16	0	10	12	1	3	73
Contributions at domestic conferences	55	14	33	5	8	23	1	0	139
Others - patents, engineering, artistic and other works	2	1	1	1	1	7	2	0	
Textbooks	9	6	5	7	4	3	0	0	34
Dissertations	0	2	0	1	0	1	0	0	4
Habilitations Thesis	0	0	0	1	1	2	0	0	4
<b>Total</b>	<b>104</b>	<b>51</b>	<b>58</b>	<b>19</b>	<b>29</b>	<b>62</b>	<b>5</b>	<b>3</b>	<b>331</b>

### Note:

ÚM	- Department of Management	ÚPI	- Department of Production Management - Industrial Engineering
ÚPE	- Department of Enterprise Economics	ÚVS	- Department of Public Administration and Regional Development
ÚIS	- Department of Informatics and Statistics	ÚTV	- Department of Physical Education
ÚE	- Department of Economics		
ÚFÚ	- Department of Finance and Accounting		

## 11.2.8 International Cooperation of FaME

The Faculty of Management and Economics cooperates in the bilateral cooperation in the Socrates, Phare, Leonardo da Vinci with the following organizations:

- Europäische Wirtschaftshochschule Berlin
- European School of Management Oxford
- Universidade Nova de Lisboa
- Univerzita Veszprém
- Universität des Saarlandes Saarbrücken
- Politechnika lodzka Filia w Bialsku - Bialej
- University of Luton, Luton Business School
- ACE Association Des Comptables - Enseignement Paris
- Universität Klagenfurt
- Wirtschaftsuniversität Wien
- ISCAL Institute Superior de Contabilidade e Administracao de Lisboa
- Univerzita Komenského, Bratislava, Faculty of Management

- Economical University, Bratislava, Centre for Further Education
- Žilinská univerzita, Žilina, Slovakia
- University of Genoa, Faculty of Engineering
- Groupe Ecole Supérieure de Commerce de Troyes

The Faculty of Management and Economics TBU is a part of the European Programme Socrates/Erasmus supporting the student mobility at the European universities. The details are listed in Chapter 10 - International Cooperation in Education.

Between FaME and Huddersfield University Business School (HUBS) in Great Britain - there were discussions and meetings regarding a joint bachelor study programme, where students after finishing two years at TBU can study the third year at the HUBS in Great Britain and to finish their studies with the title BA (Hons) European Business. During the 2004/5 academic year, two students started this programme.

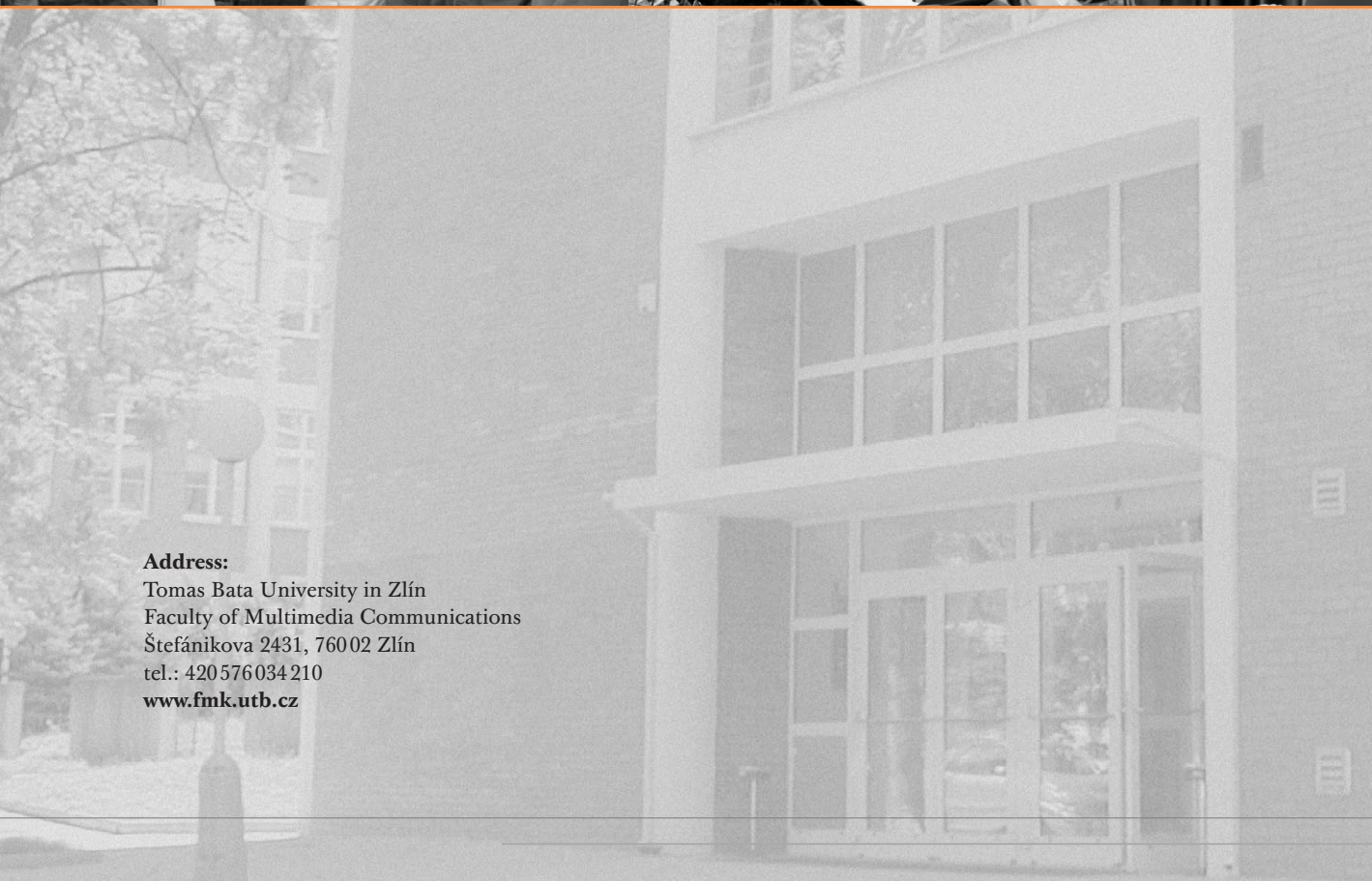
## 11.2.9 Habilitation and Professorial Nomination Procedures at FaME

During the 2002 year there were preparatory materials ready for the accreditation of habilitation process in the course Management and Economics of the Enterprise discussed on December 13, 2002 by the Scientific Board of the Faculty and on February 11, 2003 by the Scientific Board of TBU. The application was submitted to the Accreditation Board during 2003. The Board passed the

application during the June 17-18 meeting. According to the decision of the Ministry of Education, Youth, and Sports No. 23192/2003 - 30 from July 25, 2003, the Faculty is entitled to carry out habilitation proceedings in the course Management and Enterprise Economics until 2007.

See Chapter 8.4, Tables 23, 24.





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tel.: 420 576 034 210  
[www.fmk.utb.cz](http://www.fmk.utb.cz)

## 11.3 Faculty of Multimedia Communications

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### Dean

Prof. Pavel ŠKARKA, MFA

### Vice-Deans

Ing. Jaroslav SVĚTLÍK, Ph.D.

Ondřej PODZIMEK, MFA

Bořek ZEMAN, MFA

*Vice-Dean for R&D Activities, Statutory Deputy*

*Vice-Dean for Pedagogical Activities and External Relations*

*Vice-Dean for Combined Studies and Lifelong Education*



### Academic Senate

PhDr. Magda GREGAROVÁ

*Head*

### Scientific and Artistic Board

Prof. Pavel ŠKARKA, MFA

*Head*

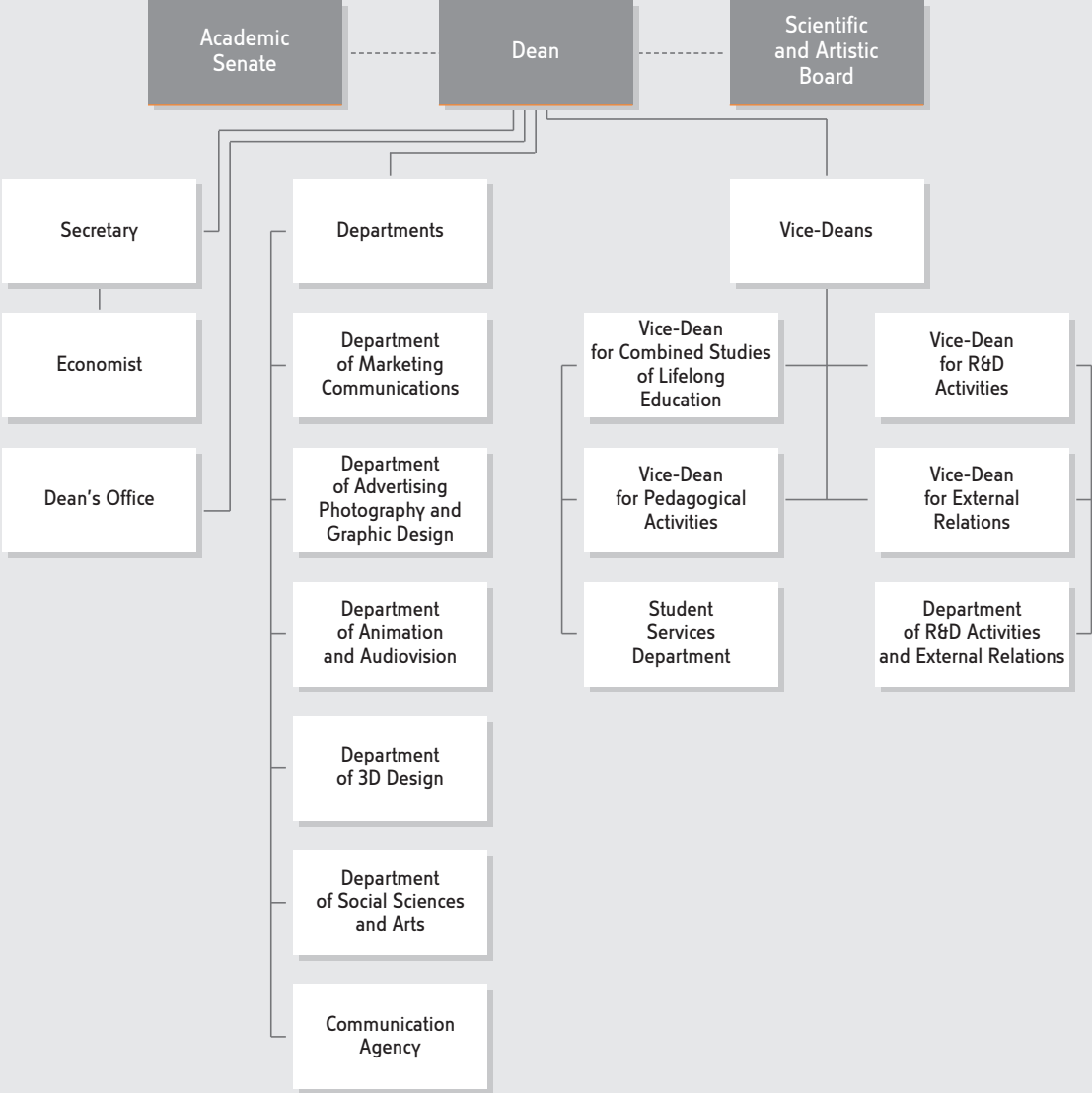
### Secretary

Ing. Eva ŠVIRÁKOVÁ

### Head of the Study Programmes Board

Ing. Jaroslav SVĚTLÍK, Ph.D.

### 11.3.1 Organizational Structure of the Faculty of Multimedia Communications



### 11.3.2 FMC Departments

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**Department of Animation and Audiovision**

Head: MgA. Jana JANÍKOVÁ, ArtD.

**Department of Marketing Communications**

Head: PhDr. Magda GREGAROVÁ

**Department of 3D Design**

Head: Doc. Jan ZAMAZAL, MFA

**Department of Advertising Photography and Graphic Design**

Head: Rostislav ILLÍK, MFA

**Department of Social Sciences and Arts**

Head: Ing. Vlastimil TAŤÁK, DiS

### 11.3.3 FMC Study Programmes

---

**Bachelor Study Programmes****B7202 Media and Communication Studies**

*Course*

Marketing and Social Communications  
full time and combined studies

**B8206 Fine Arts**

*Course*

Multimedia and Design  
full time and combined studies

**Master Study Programmes****N7202 Media and Communication Studies**

*Course*

Marketing and Social Communications  
full time and combined studies

**N8206 Fine Arts**

*Course*

Multimedia and Design  
full time and combined studies

**Study Programmes Run by the Higher Professional School - Bachelor Study Programme****B 8206 Fine Arts**

*Course*

Multimedia and Design  
full time study

Animated Film (study programme is run by the Higher Professional Film School in Zlín, s. r. o)

## Applicant Interest in FMC Bachelor Study Programmes

Table No. 52 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
Media and Communication Studies	7202	276	276	98	98	94
Fine Arts	8206	689	689	140	140	134
<b>Total</b>		<b>965</b>	<b>965</b>	<b>238</b>	<b>238</b>	<b>228</b>

## Applicant Interest in FMC Follow-Up Master Study Programmes

Table No. 53 Study Programme	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
Media and Communication Studies	7202	144	144	128	128	118
Fine Arts	8206	41	41	36	36	35
<b>Total</b>		<b>185</b>	<b>185</b>	<b>164</b>	<b>164</b>	<b>153</b>

### Note:

- <sup>1)</sup> Total number of applications received.
- <sup>2)</sup> Number of applicants for study. The figures express the number of individuals, the study courses totals include multiple application (i.e. students applying for more than one course).
- <sup>3)</sup> Number of applications responded to positively.
- <sup>4)</sup> Number of applicants accepted for studying. The figures express the total number of individuals, the study courses totals include applicants accepted to more than one course.
- <sup>5)</sup> Number of accepted students who registered to start their studies.

## Number of Students at FMC

Table No. 54 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
Media and Communication Studies	7202	286	213	0	499
Fine Arts	8206	247	62	0	309
<b>Total</b>		<b>533</b>	<b>275</b>	<b>0</b>	<b>808</b>

## Number of International Students at FMC, Including Students from Slovakia

Table No. 55 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
Media and Communication Studies	7202	24	5	0	29
Fine Arts	8206	14	2	0	16
<b>Total</b>		<b>38</b>	<b>7</b>	<b>0</b>	<b>45</b>



## Number of FMC Graduates

Table No. 56 Study Programme	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
Media and Communications Studies	7202	89	52	0	141
Fine Arts	8206	31	17	0	48
<b>Total</b>		<b>120</b>	<b>69</b>	<b>0</b>	<b>189</b>

### Commentary:

There were following awards for the exceptional Diploma Theses awarded: Rector's Award - 1, Dean's Award - 2, The Mayor of Zlín Award - 2, Tajmac - ZPS Award - 1, Award of the Consortium for the Development of the Zlín Region - 1, Tomas Bata Foundation Award - 1.

Excellent Bachelor Theses were awarded with Tomas Bata Foundation Award - 2, MOSPRA Award - 1.

There were 28 graduates with distinction (16 bachelors, 12 masters). The ratio of students with distinction was 15% out of the total number.

## 11.3.4 Innovation and Accreditation of Study Programmes of FMC, Student's Possibilities at the Labour Market

During the year of 2004, there was the study programme B8206 open - Fine Arts, study course Multimedia and Design with the specialization Animated Film, run by the Higher Professional Film School in Zlín. It is dedicated to the professional preparations and adequately complements the study specialization Animation, run by FMC since 2000.

Also, the studies of Fine Arts and Advertising (bachelor study programme, combined form) started. It is oriented toward creative disciplines of visual arts, with the emphasis on media and advertising. It is interdisciplinary study, where all the departments cooperate. Study plans start with the wide base during the first year of studies, later on there are specializations according to the students' professions.

## 11.3.5 Research and Creative Projects at FMC

### Research Projects at FMC

Table No. 57	
Research Plans	0
Grants	0
Universities Development Fund	2
Ministry of Education, Youth, and Sports	1

### Creative Activities of FMC Departments During 2004

#### Department of Animation and Audiovision

8 artistic works - Mgr. J. Fándli, MgA. J. Janíková, ArtD., Mgr. J. Krška, Ing. K. Vondra

#### Department of Marketing Communications

Research of the CR population approach to advertising

#### Department of 3D

4 artistic works - Acad. Arch. K. Lapka, Ing. Arch. H. Maršíková, Prof. P. Škarka, MFA, Doc. Jan Zamazal, MFA

#### Department of Advertising Photography and Graphic Design

7 artistic works - Doc. J. Eliška, MgA. J. Prokop

#### Department of Social Sciences and Arts

5 artistic works - O. Podzimek, MFA, B. Zeman, MFA

## Creative Activities of FMC Departments during 2004

### FMC and Projects in 2004

Grant of the Ministry of Health CR

MgA. J. Janíková ArtD. – National plan of opportunities for people with disabilities – educative movie

### Fund of the University Development

Innovation of study programmes of theoretical courses – Mgr. MgA. T. Pospěch

Innovation of bachelor study programme Media and Communication Studies (Ing. J. Světlík, Ph.D., PhDr. M. Gregarová)

### Developmental Programmes

Project for the support of the structure of study programmes – Prof. P. Škarka, MFA

## 11.3.6 Publications and Creative Activities at FMC

	KAA	KMK	KPD	KFG	KSU	Total
Monography or a chapter in one of them	1	1	1	0	2	5
Contributions in international scientific journals	0	2	0	1	0	3
Contributions in Czech and Slovak journals	1	44	0	2	34	81
Contributions at international conferences in foreign languages	0	3	1	1	1	6
Contributions at domestic conferences	1	20	1	0	2	24
Others – patents, engineering, artistic and other works	8	0	4	7	5	24
Textbooks	0	6	0	0	0	6
Dissertations	0	2	0	0	0	2
Habilitation thesis	0	1	0	0	0	1
<b>Total</b>	<b>11</b>	<b>79</b>	<b>7</b>	<b>11</b>	<b>44</b>	<b>152</b>

#### Note:

KAA – Department of Animation and Audiovision

KMK – Department of Marketing Communications

KPD – Department of 3D Design

KFG – Department of Advertising Photography and Graphic Design

KSU – Department of Social Sciences and Arts

## 11.3.7 International Cooperation of FMC

FMC is a member of following institutions:

ELIA – European League of Institutes of the Arts

ENCATC – European Network of Cultural Administration Training Centres

The cooperation with other universities as a part of the Erasmus/Socrates programme is mentioned in Chapter 10 – International Cooperation in Educational Activities.

## 11.3.8 Exceptional Creative Activities and Students Awards

### Department of Animation and Audiovision

Festival of Student Films Zlín 2004

Award for the animated film: Ze života Lumíků, Director:

O. Bystrý

Award for the video clip: Černej pasažér, Director: T. Hubáček

Special Award of the Jury: Gaia Mesiah, Director: P. Duvová

Tomas Bata Foundation Award: Educational Videotape Shoes for Diabetics - authors: T. Hubáček, Z. Matoušková

Award of the Aero Cinema, Prague: Pidilidi, Director: Š. Batoušek

### Department of the Advertising Photography and Graphic Design

Zlatá pecka: Fight against drugs - PR materials, J. Kudrnová

Academy meets professionals: student works - Advertising Photography, prestigious international photography exhibition - Köln am Rhein

Paris Photo: presentation of student works - Advertising Photography - international trade

Golf loves Europe, Europe loves Golf: student works - Advertising Photography, European competition run by the Volkswagen Company

### Department of 3D Design

Experiment Vize: student works - Clothing Design, Design Centre ČR, Prague

Kabo 2004: international trade - exposition of student work - Shoe Design

KAPPA Štúrovo: International Workshop SR, second place - specialization Industrial Design - 2<sup>nd</sup> place for design of wine cover

Young Cover, Brejle: Industrial Design in international competitions - awards in the category of universities / colleges

Wooden Sculpture: Sculpture symposium, students and teachers of the 3D Department and the Department of Social Sciences and Arts - 8 sculptures

### Department of Marketing Communications

Award of Tomas Bata Foundation: Markéta Dopitová, MA Diploma Thesis - Promotion of the Czech Republic - written in English

Award of TBU Rector: Petra Bitnerová - MA Diploma Thesis - Account Planning

Award of the Zlín Mayor: Šárka Nováková, Helena Urbancová - MA Diploma Thesis - Communication of the Integrated Rescue System in the Zlín Region

Award TAJMAC-ZPS, a. s. Zuzana Grenčnerová - MA Diploma Thesis: Comparative Study of the Sales Ways Consortium of the Zlín Region

Development Award: Lenka Morávková - MA Diploma Thesis Non-Profit Marketing Communications in the Area of Road Safety

### Department of the Social Sciences and Arts

Wooden Sculpture: Sculpture Symposium, students and teachers of the 3D Department and the Department of Social Sciences and Arts, 8 sculptures





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## 11.4 University Institute

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### **Assigned Director**

Ing. Jitka CHUDAROVÁ

### **Director of the Humanities Centre**

Prof. PhDr. Vlastimil ŠVEC, CSc.

### **Deputy UNI for Pedagogical Activities**

Ing. Anežka LENGÁLOVÁ, Ph.D.

### **Deputy UNI for the Creative Activities**

Mgr. Štefan CHUDÝ

### **Secretary**

Ing. Jitka CHUDAROVÁ



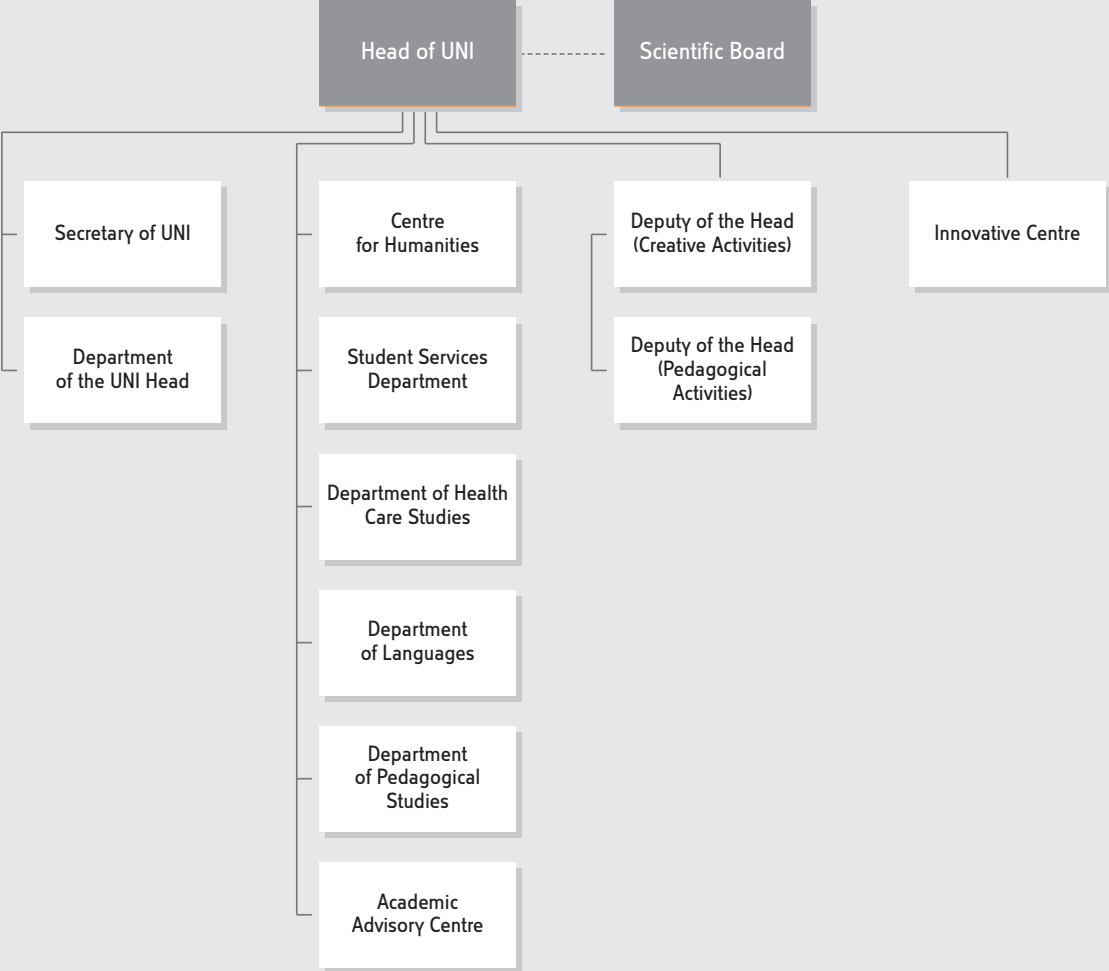
### **Scientific Board**

Was not assigned in 2004.

### **The Study Programmes Board**

Was not assigned in 2004.

### 11.4.1 Organizational Structure of the University Institute



## 11.4.2 UNI Departments and Centre

**Department of Pedagogical Sciences**  
Head: Prof. PhDr. Vlastimil ŠVEC, CSc.

**Department of Health Care Studies**  
Head: Doc. MUDr. Zbyněk KALITA, CSc.

**Department of Languages**  
Head: Mgr. Jana VLČKOVÁ, Ph.D.

**Innovative Centre**  
Head Manager of the Projects: Mgr. Daniela SOBIESKÁ

## 11.4.3 Study Programmes Run by TBU, where UNI Participates

### Bachelor Study Programmes

#### B 7501 Pedagogy

*Course*

Social Pedagogy

full time and combined studies

#### B5341 Nursing

*Course*

General Nurse\*)

Midwifery\*)

full time studies

#### B 7507 Specializations in Pedagogy

*Course*

Teaching of the Special Courses for High Schools

full time and combined studies

#### B 7310 Philology

*Course*

Management English

full time studies

\*) in cooperation with the Higher Health Care School in Zlín

### Applicant Interest in UNI Study Programmes Run by TBU, where UNI Participates

Table No. 59 Study Programme Course	Study Programme Code	Number of				
		Application Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered <sup>5)</sup>
Pedagogy / Social Pedagogy	7502R011	2,300	2,300	555	555	507
Specialization in Pedagogy / Teaching of Special Courses for High Schools	7504R253	72	72	70	70	64
Nursing / Midwifery	5341R007	83	83	30	30	30
Nursing / General Nurse	5341R009	139	139	30	30	30
<b>Total</b>		<b>2,594</b>	<b>2,594</b>	<b>685</b>	<b>685</b>	<b>631</b>

**Note:**

<sup>1)</sup> Total number of applications received.

<sup>2)</sup> Number of applicants for study. The figures express the number of individuals, the study courses totals include multiple application (i.e. students applying for more than one course).

<sup>3)</sup> Number of applications responded to positively.

<sup>4)</sup> Number of applicants accepted for studying. The figures express the total number of individuals, the study courses totals include applicants accepted to more than one course.

<sup>5)</sup> Number of accepted students who registered to start their studies.

## Number of Students at UNI

Table No. 60 Study Programme Course	Study Programme Code	Study Programme			Students Total
		Bc.	MA/MS	Dr.	
Pedagogy / Social Pedagogy	7502R011	1,197	0	0	1,197
Specialization in Pedagogy Teaching of Special Courses for High Schools	7504R253	63	0	0	63
Nursing / Midwifery	5341R007	30	0	0	30
Nursing / General Nurse	5341R009	30	0	0	30
<b>Total</b>		<b>1,320</b>	<b>0</b>	<b>0</b>	<b>1,320</b>

## Number of International Students at UNI Study Programmes Run by TBU, where UNI Participates

There were no international students at UNI in 2004.

## Number of UNI Graduates

There were no graduates at UNI in 2004.

### 11.4.4 Innovation and Accreditation of Study Programmes of UNI, Student's Possibilities at the Labour Market

All the study programmes accredited at TBU are bachelor degrees with the standard length of study - 3 years. During 2004 there were new study programmes accredited Nursing, study courses General Nursing and Midwifery (full time study) and Philology - English for

Managerial Praxis (full time study), Pedagogy, study course - Social Pedagogy (full time and combines study form), Specialization in Pedagogy, course Teaching of special courses for high schools (full time and combined studies).

### 11.4.5 Research and Development at UNI

#### The Tendencies

The main tendencies of the research at UNI are:

- research of implicit pedagogical knowledge,
- research of pathological issues in the society, prevention in family and at school,
- research of the pedagogical skills development,
- research of adaptability of Academic Advisory Centre in the TBU structure,
- research and development of study materials in the teaching of professional English for the TBU faculties.

During 2004 there was a big achievement in the area of qualitative research in the area of pedagogical sciences, especially in the area of pedagogical knowledge and in the area of solving educational issues in the school environment, also in the area of practical applications. A very positive result is the foundation of the Academic Advisory Centre at TBU.



## Research and Development of the UNI Departments

### Department of Pedagogical Sciences (ÚPV)

- socially pathological issues, their prevention in family and at school,
- implicit pedagogical knowledge and the possibilities of self-regulation when forming and developing,
- problematic school situations, their diagnosis by the teacher and the options of solving them in the school environment,
- the impact of meta-cognitive strategies for the development of self-regulative skills of the students,
- the impact of the modern tools usage - information and communication technologies in further education of high school teachers

### Department of Languages (ÚJ)

- the development of study materials of professional economical and technical English and German for the usage of bachelor, master and doctoral study programmes at the TBU faculties,
- projects of international cooperation in the EU programmes (Tempus, Leonardo da Vinci).

### Department of Health Care Studies (ÚZS)

It was established on September 1, 2004, therefore there were no research activities.

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## International Cooperation in the Area of Research and Development

### Department of Pedagogical Sciences cooperates with the following institutions:

Univerzita Konštantína Filozofa v Nitre, Nitra, Slovakia,  
Rzeszowska Univerzita, Rzeszow, Poland.

### Department of Languages

Akademia Ekonomiczna im O. Langago, Wroclaw, Poland  
Kiev National University of Taras Ševčenko, Kiev, Ukraine  
Fachhochschule St. Polten, Austria  
Fachhochschule Steyr, Austria  
Haute Exile Hemes, Liège, Belgium

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## Innovative Centre

The Regional Innovative Centre started its activities in April 2004. During the year the title was changed into the Innovative Centre.

Accepted projects in 2004:

- *Regional Innovation Strategy in Zlín Region*
- *Technological Innovative Centre*

Projects, where UNI cooperated:

- *The strengthening of the capacity of local and regional units when planning and fulfilling the SROP programmes* - cooperation with the Zlín Region
- *Enterprise Innovative Centre Zlín* - cooperation with Statutory City of Zlín

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## Participation of UNI at the Projects from Special Sources in the CR and Abroad

*Quality Increasing of the Bachelor study programmes, their combined form and lifelong education at TBU to support the foreign language education in the digital computer classroom.* 3441/2005/F5A

Mgr. Ludmila Kolářová

*Implicit pedagogical knowledge and the self-regulation options during the process, their development.* GA ČR 406/02/1247

Prof. PhDr. Vlastimil Švec, CSc.

*Laboratory, the Department for the research and study of the author acting.* GA ČR 408/04/1186

Prof. Ivan Vyskočil, DAMU Prague

V. Švec

*Leonardo da Vinci, Community action programme on vocational training,* Procedure B: COM-I-N-EUROPE, Agreement NO 2003-PT03/LA/24/024/AE/P5

Mgr. Ludmila Kolářová

## UNI Projects in the Development and Research

Provider / Type of Projects	Number of projects	Sources (in thousands CZK)
Grant Agency CR		
for the authors	1	330
for the co-authors	1	26
Grant Agency CR	2	356

### 11.4.6 Publications and R&D Activities at UNI

charakter	ÚPV	ÚJ	ÚZS	Total
Monography or a chapter in one of them	1	0	0	1
Contributions in international scientific journals	0	6	0	6
Contributions in Czech and Slovak journals	4	5	1	10
Contributions at international conferences in a foreign language	2	10	0	12
Contributions at domestic conferences	14	3	0	17
Others - patents, engineering, artistic and other works	0	0	0	0
Textbooks	3	4	0	7
Dissertations	0	0	0	0
Habilitation thesis	0	0	0	0
<b>Total</b>	<b>24</b>	<b>28</b>	<b>1</b>	<b>53</b>

**Note:**

- ÚPV - Department of Pedagogical Sciences
- ÚJ - Department of Languages
- ÚZS - Department of Health Care Studies

**Commentary**

Publication activities of several UNI teachers is under other faculties, where they are signed as co-authors.

### 11.4.7 International Cooperation of UNI

It is under the Chapter 10 - International Cooperation in Education.

## 11.5 Halls of Residence and Refectories

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### Address

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760 01 Zlín, tel. 420576 036 111  
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### Director

Ing. Josef ZELA

### Operational Units:

Building U6 – Halls of Residence, Štefánikova 150  
Building U7 – Halls of Residence, Antonínova 4379  
Building U11 – Halls of Residence, Nad Ovčírnou 3685  
Building U12 – Halls of Residence, nám. T. G. Masaryka 3050

Building U43 – Refectory, Štefánikova 2431

Building U5 – Refectory, Nad Stráněmi 4511

### Rented Buildings

Building U13 – Halls of Residence, Křiby 4885

Tř. T. Bati, 3676, 3717, 3772

Chmelník 1131

Bartošova čtvrť 4062

Nám. T. G. Masaryka 1281

### Services Provided:

Student accommodation in the Halls of Residence

Catering for students in the Refectory

Catering for the employees of TBU and other organizations in the Refectory

Additional activities: summer and seasonal accommodation

### 11.5.1 Student Accommodation

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The capacity for student accommodation was 972 beds at the beginning of the 2004/5 academic year. Out of this number, there were 782 beds at the halls of residence TBU (U6, U7, U12), 190 beds were at Jižní Svahy – Křiby (U13, the owner is Pozemní stavitelství, a. s. Zlín). Hotel Moskva offered 50 beds, only temporarily, before the halls of residence were available. There were 171 more beds in rented buildings. There were 1,193 beds – data to December 31, 2004.

The average number of accommodated students was 978 (months of January – June, October – December) in 2004. The number of applicants was 1628, 690 first year students, 938 of higher years of study. 567 students did not use the offer.

Comparing the data with the previous academic year, the interest was higher this year, 220 more students applied for the halls of residence.

The basic criteria for admitting a bed at the hall of residence are: more than 50 minutes of commuting, point advantage of students of the last year and the students active in student organizations, preferences to students of doctoral programmes, individual approach to students with disabilities. The amount of money made at the halls of residence was: 8,502,402 CZK in 2004.

### Additional Activities

Between July and September 2004 there were 947 people served at the halls of residence.

### 11.5.2 Student Catering Services

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There was a new refectory open at the U5 – Jižní Svahy during 2004. The maximum daily capacity is 500 served meals in the refectory.

The total number of served meals in 2004 was 295,537, out of this 230,823 for students (it was 212,966 meals in 2003). The amount of money made in the refectory was

8,625,533 CZK, out of this amount 5,011,537 for student meals (with the subsidies of the Ministry of Education, Youth and Sports).



## 11.6 Academia Centre

### Address

Tomas Bata University in Zlín  
Academia Centre  
Mostní 5139, 760 01 Zlín  
Tel. 420576 032 206

### Head

Jitka GRULICHOVÁ

There were 165 events in the Academia Centre between January 1 and December 31, 2004 (for the external requests). There were lectures, seminars, workshops, company presentations, board meetings, conferences, congresses, etc.

The complete list of all events is available at the Academia Centre Archive. The economical results out of these activities is a part of the Economic Annual Report 2004. There were also 130 non-profit events in the Academia Centre according to requests of the faculties.

### Publishing Activities

There were 65 titles and 1 collection published during 2004:

- |  |           |
|--|-----------|
| • Faculty of Technology                | 24 titles |
| • Faculty of Management and Economics  | 33 titles |
| • Faculty of Multimedia Communications | 6 titles  |
| • University Institute                 | 2 titles  |

The script sale: the total amount of 1,242,975 CZK  
There is the option of buying TBU memorabilia and books on Bata topics.

### International Conferences

Faculty of Management and Economics

- The world of informational systems
- Internet and the company competitiveness
- The results of the research and the state of the development Zlín Region companies competitiveness
- Conference eLearning
- The world of databases 2004

Faculty of Technology

- Perspectives of the food industry
- The usage of UV and electron at the plast manufacturing
- Shoes in history

Academia Centre

- International conference DIAGON 2004

### Important Events of TBU

44<sup>th</sup> International Film festival for children and youth

IV. Representative ball of TBU

Festival of student films Zlín 2004

Commemorative meetings of TBU, boards, scientific boards

The discussion with Vladimír Špidla - Prime Ministr of the CR

Information Day on projects of the 6<sup>th</sup> Frame Programme at TBU

PhDr. Jana Hybášková lecture - The safety threats in Europe

Meeting with PaedDr. Alena Gajdůšková - The Teachers Day

NATO Briefing

JUDr. Pavel Telička Lecture - the EU ex-officer

Meeting with Dr. Michael Libal - a German ambassador

Lecture of Mgr. Tomáš Zatloukal - Member of European Parliament

Meeting of TBU and Industry representatives

### Important Profit Events

International Congress of Ophthalmologists

Czech Pharmaceutical Society - IX. Congress

XXXII<sup>nd</sup> Czech - Slovak Neuron-vascular Symposium

IX<sup>th</sup> Congress of Gerontology and Geriatrics

International Congress Milestones of Pharmacotherapy

Conference Physiotherapy Zlín 2004

International Surgery Congress of Veterinary

Zlín Dental 2004

Conference of the Czech Society for Modern Agriculture

Concerts, theatres, educational programmes for children or adults

International Cambridge Exams

Consultations, seminars, workshops and lectures of the Business and Economic Chamber

Regional Meetings of the Consortium of cities and towns of the CR

Jan Pivečka Benefiting Concert

Christmas concert of the Dvořák Assembly



## 12. Other Activities of TBU

### 12.1 Important Conferences and Lectures at FT

Table No. 63		
Conference	Dates	Guaranty
Utilization of Ultraviolet and Electron Radiations in Plastic Processing	13.-14. 9. 2004	Doc. Ing. Berenika Hausnerová, Ph.D.
Polymer Engineering 35 <sup>th</sup> Anniversary of FT	16.-17. 9. 2004	Prof. Ing. Josef Šimoník, CSc.
Medical Plastics 2004	11.-12. 5. 2004	Prof. Ing. Petr Sába, CSc.
Polyurethane as Biomaterial	2.-4. 11. 2004	Prof. Ing. Petr Sába, CSc.
Summer School on General Algebra and Ordered Sets	5.-11. 9. 2004	Doc. RNDr. Josef Zedník, CSc.
Perspectives of Food Industry after the entering the EU	20. 5. 2004	Prof. Ing. Ignác Hoza, CSc.
Leather, Foot & Shoes - 1 <sup>st</sup> International Student Conference	15.-16. 11. 2004	Doc. Ing. Petr Hlaváček, CSc.
IV. International Conference on The Shoe in History	11.-13. 10. 2004	Doc. Ing. Petr Hlaváček, CSc.
Student Scientific Conference 2004	30. 11. 2004	Prof. Ing. L. Lapčík, DrSc., dr. h. c.
Lectures	Dates	Guaranty
Free Movements of Goods at the Unified EU Market - Food Commodities	15. 12. 2004	Doc. Ing. Lubomír Odehnala, CSc.
Molecular Informatics	23.-26. 3. 2004	Prof. Dr. Mathias Sprinzl, dr. h. c.
The Usage of Pictures Analysis of the Material Characteristics and the Archiving and Manufacturing of Pictures	1.-2. 11. 2004	Doc. Ing. Oldřich Zmeškal, CSc.
Predictive Controlling with Guaranteed Stability	3. 11. 2004	Prof. Ing. Boris Rohal-Ilkiv, CSc.
Metal Materials - Yesterday, Today and Tomorrow	22.-23. 11. 2004	Prof. Ing. Jaroslav Fiala, CSc.
From the Traditional Photography to the Digital one	6.-7. 12. 2004	Doc. Ing. Michal Veselý, CSc.
Industrial Waste in CR - Old Waste and Technologies of Their Destroy	16. 12. 2004	Prof. Ing. Mečislav Kuraš, CSc.

### 12.2 Important Conferences and Seminars at FaME

Table No. 64		
Conferences	Dates	Guaranty
Internet and the Company Competitiveness	17.- 3. 2004	Prof. Ing. Zdeněk Molnár, CSc.
The World of Informational Systems	8.-9. 3. 2004	Ing. Petr Sodomka, Ph.D. Doc. Ing. Roman Bobák, Ph.D.
1 <sup>st</sup> International Conference on University Cooperation, Organizations Public Administration in Zlín Region	28.-29. 4. 2004	Doc. PhDr. Alois Glogar, CSc.
eLearning in University Education 2004	18.-19. 5. 2004	RNDr. Bedřich Zimola
Seminars	Dates	Guaranty
Research of the Czech Industrial Manufacturers Competitiveness	24. 11. 2004	Prof. Ing. František Trnka, CSc.
World of Databases 2004	1. 12. 2004	Ing. Petr Sodomka, Ph.D.

## 12.3 Important Conferences and Seminars at FMC

Table No. 65

Conference	Dates	Guaranty
Children and Advertising	2. 6. 2004	Alexandr Kalmus
Seminars	Dates	Guaranty
International Information Educational Workshop	10. 11. 2004	Ing. Vlastimil Taťák, DiS
University Education on Marketing Communications	7. 12. 2004	PhDr. Magda Gregarová

## 12.4 Important Seminars at UNI

### Department of Pedagogical Sciences

On March 3, 2004 the Institute held an interdisciplinary seminar in Brno in the cooperation with the Department of Pedagogical Sciences. The topic of the seminar: Constitution of the social pedagogy as a scientific field.

### Innovative Centre

In November and in December the Innovative Centre held in the cooperation with the CzechInvest Agency two professional seminars for plastic companies to support the foundation of plastic cluster in Zlín Region.



## 13. Student Care at TBU

### Accommodation and Catering Capacities at TBU as of 31. 12. 2004

Table No. 66			
Total bed capacity of TBU Halls of Residences	1,001		
Bed capacity for student accommodation	972		
Bed capacity for employee accommodation	21		
Bed capacity for occasional guest accommodation	8		
Bed capacity of rented facilities	361		
Number of applications for accommodation received in the respective academic year	1,628		
Number of approved accommodation applications as of 31. 12. 2004	1,628		
Accommodation Rates (CZK/per month)	Students	Employees	Others
A - Single rooms with joint facilities	1,190/bed	3,300/bed	9,585
B - Multi-bed rooms	920/bed	3,300/bed	5,250
C - others			
Meal Price / main meal / CZK	Students	Employees	Others
	25	25	64,50
The number of served meals during the academic year (September 1, 2003 – August 31, 2004)	Students	Employees	Others
Total	224,391	38,689	27,071
out of which: lunches	131,706	36,407	23,472
a la minute meals	64,505	1,963	3,238
dinners	28,180	319	361

### 13.1 TBU Accommodation Facilities

Table No. 67	
Name	Bed Capacity for Student Accommodation
<b>University facilities</b>	
Halls of Residence Štefánikova 150	196
Halls of Residence Antonínova 4379	328
Halls of Residence nám. T. G. Masaryka 3050	258
<b>Rented facilities</b>	
Halls of Residence Kříby 4885	190
ř. T. Bati 3676, 3717, 3772	60
Chmelník 1131	62
Bartošova čtvrť 4062	9
T. G. Masaryka 1281	40
<b>Total</b>	<b>1,143</b>

## 13.2 TBU Catering Facilities

Table No. 68

Name	Maximum Daily Meal Serving Capacity
Refectory ul. Štefánikova	1,700
Refectory Jižní Svahy	500

Besides of the accommodation and catering services, the university also paid close attention to other areas, as well, such as informational and aid services, support of the sports, arts, and financial help – the scholarships.

## 13.3 Scholarships

During 2004, the TBU provided honored and outstanding scholarships. The guidelines are stated in the Scholarship Guidelines of TBU.

The honored scholarships were paid out in lump-sum in June and in December to 110 students. The outstanding scholarships were paid to 32 students.

## 13.4 Informational and Advisory Services

The conception of the future development of the information and advisory services at TBU is set out in the TBU Long-Term Aims and Objectives for the period of 2001–2005. Informational and advisory services are provided at two levels – faculties and the whole university. Faculty informational and advisory services are provided at each faculty and are aimed especially for the students. The important role is taken by the internal informational network – intranet and the internal TV network. Faculties also help to provide facilities for organizations, such as IAESTE, AIESEC and Student Union. Representatives of the Student Union also attend the meetings of the faculties' management.

The university informational and advisory services are

aimed for the students and the whole academic community, also to prospective students, the region, and cooperating firms and institutions. The university web site and the university magazine *Universalia* are important tools in all those services. The *Universalia* is published four times a year – 1200 issues. The bilingual (Czech – English) university magazine is for the university community, the regional public and partner universities abroad.

During 2004, the Academic Advisory Centre started its activities at UNI. It provided free of charge psychological, legislative and study advisory. Its services are for all the students and academics, possibly also for the prospective students and alumni.

## 13.5 Sport, Artistic and Other Student Activities

In the area of sports, arts and other free time activities the university offers many options.

Sports are taken by the compulsory physical education classes. The offered options are: aerobic, spinning, squash, swimming, kick-box, health care physical education, taekwon-do, volleyball, basketball, inside-soccer, floorball, climbing and skiing.

The University Club (VŠSK) offers sports activities for students of higher years of study and for the university employees.

During the academic year and to commemorate the November 17 Anniversary, the Department of Physical Education runs swimming relay and faculty matches of

inside-soccer, aerobic, ice hockey, volleyball and squash. The winter skiing courses take place at the ski area Portáš in Javorníky Mountains. The summer courses are aimed to cycling, climbing, waterfront and horse-back riding.

In June 2004, the Department of Physical Education ran an international tournament SUNI CUP – Zlín 2004. Students from Chorzów (Poland), Trenčín (Slovakia) and Zlín competed in soccer, volleyball, aerobic, squash, and tennis. A very successful regional sport and charity event called PARAPARÁDA took place in December 2004. Disabled athletes competed with the employees of public administration and also with professional athletes.



Every year, students represent the university at Czech Academic Games, took place in Prague in 2004. There were 56 students competing in 19 disciplines and won 3 golden medals. The most successful one was Lucie Vyoralová, who won 2 golden medals in 50 m and 100 m back-stroke and a third place for free style. Athlete Tomáš Podoba won the golden medal in 400 m run. 12 other students in various disciplines took places between the 4<sup>th</sup> and 10<sup>th</sup> one.

Students may also attend many cultural events. In cooperation with the City Theater, and the Bohuslav Martinů Philharmonics, there are reduced price tickets

offered. Many activities are also offered by the Academia Centre. Students of the Faculty of Multimedia Communications prepared many activities, such as Miss Academia CR, Theater Festival - Theater Luhačovice, and Literary May, The Festival of Student Films and others.

The TBU facilities are becoming a place for many extracurricular activities and also the university offer many high quality events for the people of the City of Zlín and the region. TBU understands this position as strengthening the university prestige in the city and the region and also as a support on the interest in TBU studies.



## 14. Development of the University

### 14.1 Resources from the Government Budget for Property Reproduction

333 311 4701	Reconstruction of the former 13 <sup>th</sup> elementary school into a university site	63,500,000 CZK (investment)
233 349 4701	The windows change at U1	12,300,000 CZK (investment)
233 34U 4707	Repairs and reconstruction of the U1, 1 <sup>st</sup> part	12,315,000 CZK (investment)
	Reconstruction of the 5 <sup>th</sup> floor into laboratories	2,563,000 CZK (non-investment sources)
233 34U 4705	General reconstruction of the U12 - IV <sup>th</sup> part	664,000 CZK (investment)

### 14.2 Other Investments

#### Category A - STRATEGIC INVESTMENTS

The category Strategic Investments involves large-scale investments that are significant for the final organization and dislocation of the university. The aim is to prepare adequate facilities for the target number of students, 8,300, before the start of the 2006/7 academic year, in accordance with the TBU Long-Term Aims and Objectives.

#### A1) Reconstruction of the former 13<sup>th</sup> elementary school into a university site

The building site started in 2002 and finished in the planned deadline 04/2004. After the complete equipment, the site was given for the usage at the beginning of the 2004/5 academic year.

There are departments of the Institute of Process Controlling and Applied Informatics chose departments of the Faculty of Technology, Faculty of Management and Economics (Department of Physical Education) and University Institute (Department of Languages). There are four modern equipped lecture halls, 45 laboratories, 8 seminar rooms, 6 computer rooms and area internet study room. The sport centres for all the parts of the university consist of 2 gyms and a weigh-lifting room with technical and other equipment. The site also has its own refectory with the technological equipment.

The site is situated in a quiet surrounding, with the sufficient amount of outside greenery, is well connected, and there are enough parking lots for private parking.

Financial source:	MŠMT	340,357,000 CZK
	TBU	7,064,000 CZK
<b>Deadline:</b>	<b>01/2002-04/2004</b>	<b>Total: 347,421,000 CZK</b>

#### A2) University Centre in Zlín

As well as in 2003, was the 2004 filled with intense preparatory work in the area of project engineering activities, legislative meetings and meetings with the goal to reach the registration of investment plan at the MŠMT and MF.

At the beginning of the year the regional pass was issued and the pass to demolish the Musicland A site. The developer of the activity was chosen. There were interviews for the project documentations for the building pass, the primary documentation for the choice of the provider, including the obtaining of the building pass. For all these activities all the legislative procedures began.

The proposed preparations were delayed due the new laws for public projects and due all the responsibilities, all the tax changes that were reflected in the project engineering activities. Despite all the hard work, the registration of the 7<sup>th</sup> version of the investments proposal was not reached.

Financial source:	TBU	853,000 CZK
<b>Deadline:</b>	<b>07/2005-12/2006</b>	<b>Total: 853,000 CZK</b>

## Category B - COMMUNICATION INFRASTRUCTURE

### B1) Enlargement of the spinal computer network U10, U11

While fulfilling these remaining tracks, the interconnection of the entire spinal optical network has been finished. The complete interconnection of all sites by the optical network, there is the presupposition for a wider usage of the modern informational technologies, fulfillment of the increasing usage and need of the data exchange and information obtaining.

Financial source:	MŠMT	1,212,000 CZK
	TBU	90,000 CZK
<b>Deadline:</b>	<b>06/2004</b>	<b>Total: 1,302,000 CZK</b>

## Category C - PREPARATION OF THE INVESTMENTS

For the activities included in the plan of Building Committee there was a preparatory activity finished ahead in the form of evaluation, research, expertise, audit, studies and pre-project and project activities.

## 14.3 Reconstruction and Maintaining for the University Buildings

## Category D - BUILDING RECONSTRUCTION

### D1) General reconstruction of the U12 site - IV<sup>th</sup> part

The investment proposal of the realization of the IV<sup>th</sup> part of the site reconstruction (following the previously finished parts - the eastern part of the site, stairs, fire safety equipment) as the reconstruction of other four halves of the floors (2<sup>nd</sup>-5<sup>th</sup> floor) of the western part in the already started trend. Besides of that, the roof of the object is going to be reconstructed and insulated, the water heating is going to be established, the spinal traffic in the 1<sup>st</sup> floor will be provided with new water transitions. The accommodation will be reconstructed in the 1<sup>st</sup> floor. Predominantly the dispositions are going to be changed for the networking of the structured cables. After the reconstruction, there are going to be 190 more beds for the student accommodation and guests.

During 2004 the building site pass was obtained, the project documentation was changed, including the documentation regarding the choice of the provider. The choice of the site builder has started, however, it has not been signed up yet. The evacuation elevator has been installed and started to work. All other works will start in February 2005.

Financial source:	MŠMT	664,000 CZK
	TBU	1,001,000 CZK
<b>Deadline:</b>	<b>02/2004-10/2005</b>	<b>Total (in 2004): 1,665,000 CZK</b>

### D2 Reconstruction of the object U1 - 1<sup>st</sup> part, "Reconstruction of the 5<sup>th</sup> floor into laboratories"

The event included the project of documentation for the building site pass, building realization and the choice of the building provider, demolition and building installation work for the new dispositional installation and equipment. By the reconstruction, new modern chemical and technological laboratories for microbiology, food analyses, and technology of food preparation and food evaluation for the study programme Chemistry and Food Technology were built.

Financial source:	MŠMT	14,878,000 CZK
	TBU	88,000 CZK
<b>Deadline:</b>	<b>07-11/2004</b>	<b>Total: 14,966,000 CZK</b>

### D3) Site U3 for the Regional Innovative Centre

After their relocation of the Institute of Process Controlling and Applied Informatics into the U5 site the building changes were realized for the relocation of the Innovative Centre and the management of the University Institute. Smaller changes were provided with the realization of the standard infrastructure, while enlargement and modernization of the given social equipment and also painting of the site.

Financial source:	TBU	2,645,000 CZK
<b>Deadline:</b>	<b>07-09/2004</b>	<b>Total: 2,645,000 CZK</b>

#### D4) Multimedia classroom for the language education

The building of the digital classroom for the education of foreign languages consisted of buying HW and SW parts of the newest digital laboratory SANAKO LAB 300, the buying and installation of 26 pieces of multimedia PC, the equipment of the modern presentation technique. A part of that was also the complete reconstruction of the room according to the building site, building the electric traces, for the audio and video, the change of the lighting. The Multimedia classroom is suitable not only for the foreign language classes but also for other professional courses.

Financial source:	MŠMT	2,650,000 CZK
	TBU	520,000 CZK
<b>Deadline:</b>	<b>08-10/2004</b>	<b>Total:</b> <b>3,170,000 CZK</b>

#### D5) The reconstruction of the 302, 308 rooms at the U10 site.

The rooms with its given equipment did not fulfill the standards for the modern trends of education. The 302 room was provided with lecture-hall style seating on a leveled floor with 64 seats. New lightings were installed, also the equipment for the usage of audio-visual equipment.

The 308 room was equipped with one level of lecture hall seating with 47 seats. Windows of both rooms are equipped with blinding shades, walls are covered with wood, floors are covered with new material. Also the painting of the walls and ceiling was obtained.

Financial source:	TBU	2,098,000 CZK
<b>Deadline:</b>	<b>04-05/2004</b>	<b>Total:</b> <b>2,098,000 CZK</b>

#### D6) The change of Windows at U1

The given, old metal, large sized windows with no good parameters were replaced by new, wooden, with the EURO standard with normed values of the warmth technical characteristics. As a part of the replacement new painting inside and outside was provided.

Financial source:	MŠMT	12,300,000 CZK
	TBU	1,809,000 CZK
<b>Deadline:</b>	<b>07-09/2004</b>	<b>Total:</b> <b>14,109,000 CZK</b>

#### D7) Installation of the elevator in U12

After the III<sup>rd</sup> part of the site reconstruction, the bed elevator was installed – carries 1,000 kg. Also the surface changes were provided, the walls nearby the elevator entrance at all floors.

Financial source:	TBU	1,047,000 CZK
<b>Deadline:</b>	<b>05-06/2004</b>	<b>Total:</b> <b>1,047,000 CZK</b>

#### D8) Complements at the U5 site

In the reflection of all the moving activities, the U5 was needed to be equipped with the small pieces of furniture, information tables, blinds, interior greenery, artifacts, fire extinguishers, phones, office and laboratory technique. Also little changes were solved.

Financial source:	TBU	5,551,000 CZK
<b>Deadline:</b>	<b>06-11/2004</b>	<b>Total:</b> <b>5,551,000 CZK</b>

#### D9) Reconstruction of the regulation techniques and aula auditory system of the Academia Centre

Financial source:	TBU	433,000 CZK
<b>Deadline:</b>	<b>06/2004</b>	<b>Total:</b> <b>433,000 CZK</b>

**D10) Enlargement of the cooking technology in the refectory**

Due to the new U5 site opening; it was necessary to secure quality meal plans in the university cafeteria. It was necessary to complement and enlarge technological equipment with more powerful components.

Financial source:	TBU	1,392,000 CZK
<b>Deadline:</b>	<b>08-09/2004</b>	<b>Total:</b> <b>1,392,000 CZK</b>

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**D11) Little building site work and little changes**

Due to all the changes and relocations little changes must have been provided.

Financial source:	TBU	1,794,000 CZK
<b>Deadline:</b>	<b>01-12/2004</b>	<b>Total:</b> <b>1,794,000 CZK</b>

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**D12) Orientation system of U5 site**

The information system was complemented according to the unified visual style. The complementation consists of orientation signs for the rooms, offices, technical sites and other additional areas.

Financial source:	TBU	661,000 CZK
<b>Deadline:</b>	<b>08/2004</b>	<b>Total:</b> <b>661,000 CZK</b>

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**Category E - ELIMINATING EMERGENCIES****E1) Reconstruction of lighting - U10 site**

During the ceiling reconstruction, the change of lighting was installed. Painting of the rooms was also a part of this reconstruction.

Financial source:	TBU	2,703,000 CZK
<b>Deadline:</b>	<b>07-09/2004</b>	<b>Total:</b> <b>2,703,000 CZK</b>

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## 14.4 TBU Involvement in the Projects of the Universities Development Fund

Table No. 69 Development Programmes for Public Universities	Number of Accepted Projects	Allocated Sources (in thousands CZK)		
		Investment	Non-Investment	Total
Innovation and laboratory, studio development libraries, information technologies in university education	1	1,212		1,212
Teacher education				0
Information centres for students				0
University libraries				0
Study programmes innovation	7		632	632
Creative projects of students	6		536	536
<b>Total</b>	<b>14</b>	<b>1,212</b>	<b>1,168</b>	<b>2,380</b>

## 14.5 TBU Involvement in the Development Programmes for Public Universities

Table No. 70 Development Programmes for Public Universities	Number of Submitted Projects	Number of Accepted Projects	Allocated Sources (in thousands CZK)	
			Investment	Non-Investment
Programme for the Development Support	21	20	5,042	21,288



## 15. Activities of the Board of Governors

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The Board of Governors met twice during 2004. At the seventh meeting on April 8, 2004 in Zlín, on Mostní Street, the board passed the Annual Report of 2003 and the Economic Annual Report 2003. Also passed the Update of the Long-Term Aims and Objectives for the year of 2005 and the provided Budget of TBU in Zlín in 2004. The Board of Governors also passed the contract for the buying of the building with the descriptive number 1362 at the building site, number 2641, in the town of Zlín. The building will be demolished and a new University Centre will be built there.

The eighth meeting took place on October 27, 2004 in Prague in the building of Chamber of Deputies. The Board of Governors discussed and passed the project of the Technological Innovative Centre (TIC) of the university and Zlín region. TIC is going to take place on Růmy Street 4046. The University and the Zlín Region put altogether 100,000 CZK. The new institution will be run by four employees.

The Board of Governors passed the sale of the apartment at 33, building 5357, at the building site 8376, Zlín, to TBU employee.



## 16. Conclusion

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During the 2004 TBU continued with the fulfillments of the long term tasks.

In the area of teaching activities the offer of study programmes has been enlarged with now accredited study programmes and courses. These activities were the TBU reaction to the regional market situation. Joint accreditation of the new bachelor study programmes, the university participated on the enlargement of the higher schools offer in Zlín. The success was the obtaining of the accreditation of the bachelor study programme Philology, study course Management English. A huge interest is expected for this course.

In the investment area, the biggest success was the opening of the new school site in Zlín - Jižní Svahy, its equipment is compatible with European standards. In the area of human resources, TBU aimed for high professionalism and international approach of the personnel. The languages preparations of students, teachers and employees continued.

In the area of research projects, the dominants ways were defined - till 2011, the most important one will be in the area of polymers.

For the future, one of the main goals is to make the university more international and become a part of the European network of similar universities, so TBU becomes a fully awarded member. The aim is to enlarge the international student body, and the enlargement of study stays abroad for Czech students.

The most important goals for the year of 2005 are:

1. to start with the building site Congress and University Centre (fall 2005)
2. accreditation of the complete study programme in English and implementing of the joint study programmes with international universities
3. preparation of the fourth faculty - in applied informatic and the fifth faculty in humanities.

## List of Tables

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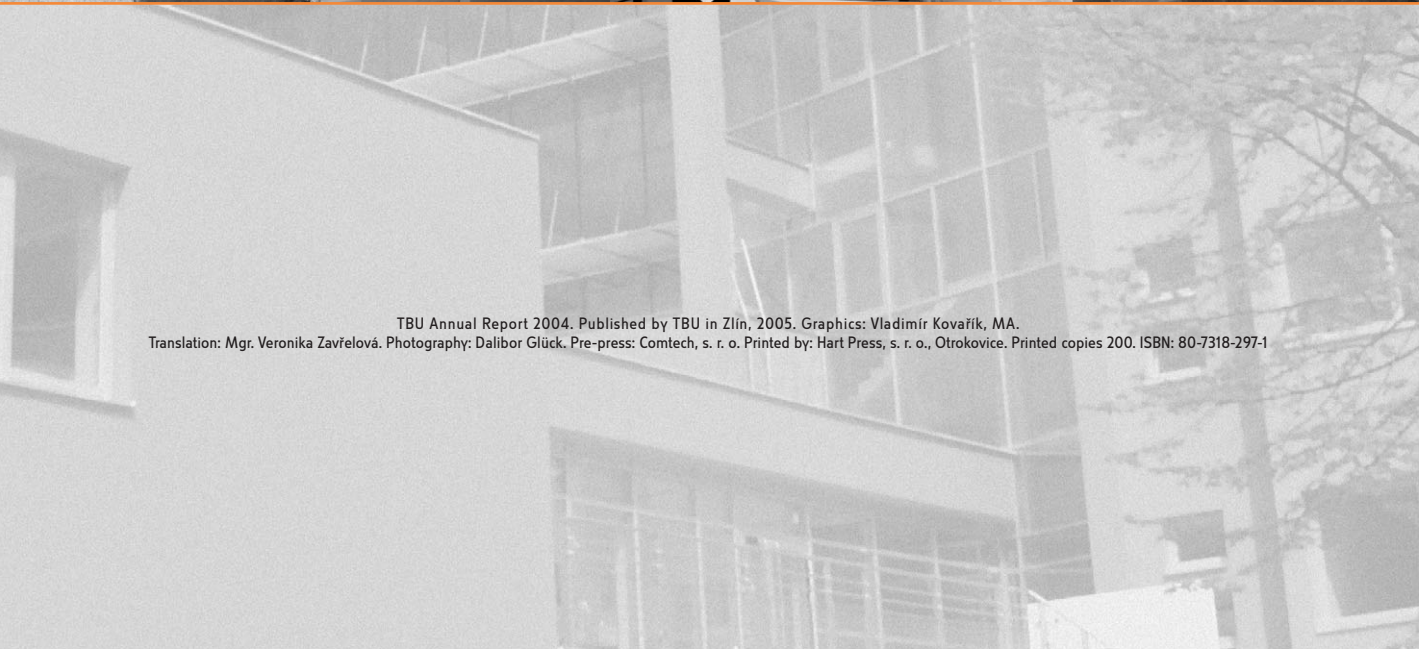
1. Number of Study Programmes and Courses at TBU
2. Number of Lifelong Learning Programmes
3. Number of Attendants in Lifelong Learning Programmes at TBU
4. Applicant Interest in Studying at the TBU
5. Number of TBU Students
6. Number of International Students, Including Students from Slovakia
7. Number of TBU Graduates
8. Number of Unsuccessful Students at TBU
9. Number of Computers Connected in each TBU Building/Site
10. Number of Computers Connected at the Halls of Residence
11. Library and Informational Services
12. Equipment of the Library and Study Rooms
13. Usage of Modern Technologies
14. Inter-Library Loan Services
15. Structure of the TBU Central Library Staff
16. TBU Involvement in Research Projects
17. TBU Involvement in Projects Financed from Other Czech and Foreign Sources
18. TBU Involvement in Projects Financed from Specific Resources
19. Qualification and Age Structure of Academic Employees
20. Number of Internal (with Main/Full-Time Contracts) and External Employees
21. Trends in TBU Personal Structure
22. Habilitation Proceeding at FT
23. Habilitation Proceeding at FaME
24. Habilitation Proceeding outside of TBU
25. List of Frame Contracts with University Partners Abroad
26. TBU Cooperation with Foreign Universities - Socrates/Erasmus
27. EU Programmes for Education and Preparations for Future Employment
28. Other Programmes
29. Other International Study Programmes
30. Applicant Interest in FT Bachelor Study Programmes
31. Applicant Interest in FT Follow-Up Master Study Programmes
32. Number of Students at FT
33. Number of International Students at FT, Including Students from Slovakia
34. Number of FT Graduates
35. Remote Workplace in Přerov - Bachelor Study Programme Engineering Informatics
36. Remote Workplace in Vsetín - Bachelor Study Programme Process Engineering
37. Remote Workplace in Kroměříž - Bachelor Study Programme Chemistry and Food Technology
38. FT Involvement in Research Plans and Projects
39. FT Involvement in Projects Financed from Specific Resources
40. FT Involvement in 5<sup>th</sup> and 6<sup>th</sup> Frame Programmes
41. Successful Graduates of the Doctoral Study Programmes at FT
42. Publications and R&D Activities at FT
43. Applicant Interest in FaME Bachelor Study Programmes
44. Applicant Interest in FaME Follow-Up Master Study Programmes
45. Number of Students at FaME
46. Number of International Students at FaME, Including Students from Slovakia
47. Number of FaME Graduates
48. FaME Involvement in Research Plans and Projects
49. FaME Involvement in Projects Financed from Specific Resources
50. Successful Graduates of the Doctoral Study Programmes at FaME
51. Publications and R&D Activities at FaME
52. Applicant Interest in FMC Bachelor Study Programmes
53. Applicant Interest in FMC Follow-Up Master Study Programmes
54. Number of Students at FMC
55. Number of International Students at FMC, Including Students from Slovakia
56. Number of FMC Graduates
57. Research Projects at FMC
58. Publications and Creative Activities at FMC
59. Applicant Interest in UNI Study Programmes Run by TBU, where UNI Participates
60. Number of Students at UNI
61. UNI Projects in the Development and Research
62. Publication and R&D Activities at UNI
63. Important Conferences and Lectures at FT
64. Important Conferences and Seminars at FaME
65. Important Conferences at FMC
66. Accommodation and Catering Capacities at TBU as of 31. 12. 2004
67. TBU Accommodation Facilities
68. TBU Catering Facilities
69. TBU Involvement in the Projects of the Universities Development Fund
70. TBU Involvement in the Development Programmes for Public Universities



## List of Abbreviations

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TBU	- Tomas Bata University
AS TBU	- Academic Senate TBU
FT	- Faculty of Technology
FaME	- Faculty of Management and Economics
FMC	- Faculty of Multimedia Communications
UNI	- University Institute
MF ČR	- Ministry of Finance, Czech Republic
MMR ČR	- Ministry of the Local / Regional Development, Czech Republic
MPO ČR	- Ministry of Industry and Trade, Czech Republic
MŠMT ČR	- Ministry of Education, Youth and Sports, Czech Republic
MV ČR	- Ministry of Interior, Czech Republic
GACR	- Grant Agency of the Czech Republic
FRVŠ	- Universities Development Fund
IMS	- Institute of Interdisciplinary Studies in Brno
ECTS	- European Credit Transfer System
R&D	- Research and Development



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