

<b>DEPARTMENT OF BUILDING TECHNOLOGY</b>
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## I. STAFF

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### Craftsmen

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## II. EQUIPMENT

### II.1 Teaching and Research Laboratories

- CEMAKS Accredited Testing Laboratory

### II.2 Special Measuring Instruments and Computers

- FLAT JACK - for testing the quality of masonry structures
- SCHMIDT N - for testing concrete
- SCHMIDT LB - for testing bricks
- SCHMIDT PM - for testing mortar
- PROFOMETER 3 - for evaluating the location and thickness of reinforcements and the thickness of concrete coverings in reinforced concrete structures
- USMES - ultrasonic equipment for testing the elasto-stiffness qualities of concrete structures
- RPZ - resonating equipment for testing the elasto-stiffness qualities of concrete structures

## III. TEACHING

### III.1 Graduate Study

Subjects	Semester	Hours Per Week		Lecturer
		Lecturers	Seminars	
Building Machines and Mechanization	4	2 - 1		J.Gašparík, V.Klímek
Quality Management	9	2 - 2		J. Gašparík
Technology of Building Processes I.	6	2 - 2		I. Juriček
Technology of Building Processes II.	7	2 - 2		R.Ivanová
Building Technology	8	2 - 2		I. Fickuliak
Practice	8	2 weeks		
Building and Services Technology	10	2 - 1		M. Božík
Technological Project I.	8	0 - 5		M. Božík
Site Equipment Theory	8	2 - 3		O. Makýš
Computer-Aided Pre-Construction Design	9	0 - 4		P. Makýš
Construction of Buildings	7	2 - 2		O. Makýš
Excursion	10	1 week		
Project Management	8	2 - 2		I. Fickuliak
Pre-Construction Design of Reconstruction	10	1 - 1		O. Makýš
Environmental Protection During Construction	10	2 - 1		V. Klímek
Technological Project II.	9	0 - 5		I. Fickuliak
Technological Project III.	10	0 - 5		I. Juriček
Thesis Seminar	10	0 - 2		
Facility Management	10	1 - 1		I. Fickuliak
Nondestructive Testing	9	1 - 1		J. Gašparík
Civil Engineering Technology	10	2 - 1		V. Klímek
Special Technology in Reconstructions	9	2 - 2		O. Makýš
Modeling of Building Processes	8	2 - 2		I. Fickuliak

Pre-Construction Design	8	2 - 1	I. Fickuliak
Total Quality Management	8	2 - 2	J. Gašparík,
Technological Project I.	8	0 - 6	M.Božik

### III.1.1 Part-Time Teaching Activities for Graduate Study

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Studio Design III.E	6	0 - 5		
Studio Design IV.Ppr	8	0 - 6		
Studio Design V.Ppr	10	0 - 5		
Studio Design IV.TZB	8	0 - 6		
Construction Management (Faculty of Mechanical Engineering)	10	3 - 2		A. Gron
Construction of Buildings and Settlements (Faculty of Architecture)	6	2 - 1		M. Búciová

### III.2 Postgraduate Study

Subjects	Semester	Hours Per Semester	Lecturer
Theory of Technology in Building Processes		36	I. Juríček I. Fickuliak
Theory of Building Construction and Building Complexes		36	O. Makýš

## IV. RESEARCH TARGETS

Research activities are motivated towards the long-term as well as the actual requirements of building practise and the pedagogical process. Activities mainly focus on:

- optimisation of site facilities,
- optimal usage of machines and multiple-machine groups,
- methods and criteria for optimum decision-making in pre-construction design,
- project and maintenance management,
- total building quality management,
- environmental protection during construction,
- bio-corrosion of building structures,
- simulation models of building processes,
- non-destructive testing.

## V. RESEARCH PROJECTS

1. Quality Management in Pre-Construction Design, Construction and Maintenance of Buildings, VEGA No. 1/5059/98 (1996-1999, J. Gašparík)
2. Qualité & Intégration Socio-Professionnelle, Leonardo da Vinci F/98/1/64021/PI/I.1.1b/FPC (Gašparík)

## VI. COOPERATION

### VI.1 Cooperation in Slovakia

1. ISD - NOE, Ltd., Závodná 3, 822 08 Bratislava
2. DOKA Slovakia, Ltd., Tomašiková 26, 826 37 Bratislava
3. Chemkostav HSV HUMENNÉ, Inc., Štefánikova 18, 066 01 Humenné
4. PREMACE Ltd., Stará Vajnorská 25, 801 00 Bratislava
5. ARBOR Inc., Poľná 6, 903 01 Senec
6. QIILI, Magnetová 11, 831 04 Bratislava
7. EXE Ltd., Smetanová 13, 811 03 Bratislava
8. BYVIP Ltd., Hanulova 5, 841 02 Bratislava

### VI.2 International Cooperation

1. Southampton Institute, Built Environment Division, East Park Terrace, Southampton S09 4WW, England
2. Purdue University, Division of Construction Engineering and Management, School of Civil Engineering, West Lafayette, IN 47907 USA
3. University of Brighton, Faculty of Engineering and Environmental Studies, Mithrans House, Brighton BM2 4AT ENGLAND
4. Technical University (VUT), Building Faculty, Department of Building Technology, Udolní 53, 66242 Brno, Czech Republic
5. Czech Technical University (ČVUT), Building Faculty, Thákurova 7, 166 29 Prague 6

#### VI.2.1 Visitors to the Department

- RUTTER David, University of Brighton, UK, 5 days
- RADUJKEVIČ, University of Zagreb, 3 days

## VII. THESES

### VII.1 Graduate Theses

No	Student's Name	Title	Supervisor
1.	ALMAN, M.	Nondestructive Testing of Masonry and Concrete Structures	J. Gašparík
2.	BÁNCZYOVÁ, L.	Multi-Functional Apartment House in Bratislava - Part of Pre-Construction Design	A. Gron
3.	BOBEK, V.	Private Housing Estate in Špačince - Study of Superstructure Construction and Part of Pre-Construction Design	I. Fickuliak
4.	BOTTLIK, Z.	Private Farm in Senec - Study of Superstructure Construction and Part of Pre-Construction Design	I. Fickuliak
5.	CABADAJ, J.	Marček Housing Estate - Study of Superstructure Construction and Part of Pre-	I. Fickuliak

6.	DAŇO, M.	Construction Design Additional Building at ŠTU Trenčín - the Study of Superstructure Construction and Part of Pre-Construction Design	I. Fickuliak
7.	DIDEK, D.	Multi-Functional Apartment House in Trstená - Part of Pre-Construction Design	A. Gron
8.	FERANČÍK, V.	Apartment House on Turčianská Street in Bratislava - Part of Pre-Construction Design	M. Búciová
9.	HOLBUS, M.	UNIKER Business Center, Ltd. Devin Bank- Part of Pre-Construction Design	M. Búciová
10.	HOLLMANN, R.	System of Quality Management in Building Firm According to ISO 9001:2000	J. Gašparík
11.	HORVÁTHOVÁ, K.	Multi-Functional Apartment House on Opavská Street in Bratislava - Part of Pre- Construction Design	I. Juríček
12.	KOPECKÝ, P.	Introduction of Reengineering in Building Firm and On Site	J. Gašparík
13.	KOŠTIALOVÁ, M.	Administration Building in Zlín - Part of Pre- Construction Design	I. Juríček
14.	KVETÁK, R.	Reconstruction of CARLTON Hotel Roof - Part of Pre-Construction Design	I. Juríček
15.	LACKOVIČ, J.	Pre-Construction Working Design of Hotel CARLTON Carcassing	P. Makýš
16.	MIKULÁŠ, R.	Administration Building in Zlín - Part of Pre- Construction Design	P. Makýš
17.	OLEARČIN, J.	Additional Building to Multi-Functional House - Part of Pre-Construction Design	M. Božík
18.	OMELINA, V.	Repair of Uhrovec Castle	O. Makýš
19.	PETRINEC, M.	Quality Management in Building Firm and On Site	J. Gašparík
20.	PETROVSKÝ, J.	Administration Building in Zlín - Part of Pre- Construction Design	I. Juríček
21.	STÍSKALA, J.	Administration Building in Zlín - Part of Pre- Construction Design	P. Makýš
22.	SÚLOVEC, R.	Customs and Border Crossing Building at Kuty - Part of Pre-Construction Design	I. Juríček
23.	ŠALÁTEK, A.	Reconstruction of Servants' Hall at Rusovce Manor – Pre-Construction Working Design	O. Makýš
24.	ŠULKA, J.	Quality Management in Pre-Construction Design and Construction According to ISO 9000:2000	J. Gašparík
25.	TIKL, O.	Multi-Functional Apartment House on Datelinova Street in Bratislava - Part of Pre- Construction Design	P. Makýš
26.	VALACHOVIČ, P.	COMERON Administration Building in Podunajské Biskupice - Part of Pre- Construction Design	M. Búciová
27.	VARGOVÁ, Z.	Reconstruction and Additional Building for Production Center in Dunajská Streda - Working Pre-Construction Design	O. Makýš

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| 28. | VATAJ, P.    | Housing Estate in Zahorska Bystrica - Tender Documents   | V. Klímek   |
| 29. | VELEBA, K.   | Sports Hall - Pre-Construction Design  | M. Božík    |
| 30. | VOLÁR, M.    | Parking and Administration Building Part "A" on Cukrova Street in Bratislava - Part of Pre-Construction Design | V. Klímek   |
| 31. | ZÁHORA, M.   | Administration Building - Part of Pre-Construction Design  | M. Božík    |
| 32. | ZAREMSKÁ, I. | The Church - Part of Pre-Construction Design   | M. Božík    |
| 33. | ZUZIC, L.    | Administration Building - Part of Pre-Construction Design  | M. Božík    |
| 34. | BRÍZA, B.    | Quality Management in Building Firm and on Site According to STN EN ISO 9001 and 10005                         | J. Gašparík |

## IX. PUBLICATIONS

### IX.1 Journals

- [1] BÚCIOVÁ, M.: Diagnosis of Building Defects. In: Dom a byt, Vol. VII, No. 6/2001, pp. 6–8, AN TAR s.r.o. Bratislava 2001
- [2] BÚCIOVÁ, M.: Fungal Contamination in Flats. In: Dom a byt, Vol. VII, Nos. 7-8/2001, pp. 114–116, AN TAR s.r.o. Bratislava 2001
- [3] GAŠPARÍK, J. - POKORNÝ, M. – JERGA, J.: Automation of Phase Velocity Measurement. In: Slovak Journal of Civil Engineering, Nos. 1-2/2000, pp. 14-18, SvF STU Bratislava 2001
- [4] GAŠPARÍK, J.: Building Company and Quality Management. In: ASB, Vol. VIII, No. III/2001, pp. 19-21, Bratislava 2001
- [5] GAŠPARÍK, J.: Quality Management System in a Building Company According to ISO 9001:2000. In: STAVBA, Vol. IV, No. 6/2001, pp. 62-64, ADORE Slovakia, s.r.o. Bratislava 2001
- [6] GAŠPARÍK, J.: Quality Management System in a Building Company According to ISO 9001:2000 – Management Responsibilities. In: STAVBA, Vol. IV, No. 9/2001, pp. 60-63, ADORE Slovakia, s.r.o. Bratislava 2000
- [7] GRON A.: Errors and Defects of an Active Façade. In: Hn REALITY, Vol. III, No. 5/2001, pp. 14–15, NARS s.r.o. Bratislava 2001
- [8] IVANOVÁ, R.: Before You Choose a Floor. In: Môj dom, Nos. 1-2, pp. 152-154, Bertelsmannspringer s.r.o. Bratislava 201
- [9] JURÍČEK, I.: A Comparison of Present Trends with the Past in the Development of Building Materials and Technologies. In: Architektúra, stavebníctvo, bývanie, Vol. VIII, No. 3/2001, pp. 14 - 18, Meritum s.r.o. Bratislava, 2001
- [10] MAKÝŠ, P. – JURÍČEK, I.: Complex Approach to the Construction of Sanitary Units. In: Stavba, Vol. IV. No. 02, pp. 47 – 49, Adore s.r.o. Bratislava, 2001
- [11] MAKÝŠ, O.: Preface to Church Buildings. In: STAVBA, Vol. IV, No. 3, p. 1, ADORE Slovakia, s. r. o., Bratislava 2001
- [12] MAKÝŠ O.: Site Layout in Historic Centres. In: Handbook of Technical Building Requirements, Chap. 4.10.2, pp. 1-5, ISSN 1335-8634, Vol. 2, Verlag Dashöfer, Bratislava 2001
- [13] MAKÝŠ, O.: The Repair of Damp Structures. In: ASB, Vol. VIII, No. 2/2001, p. 53,

ISSN 1335-1230, Meritum s.r.o. Bratislava 2001

- [14] SZALAYOVÁ, S.: What is New in the ISO 9000 World? - Part 4. In: Interiér stavby – remesla, materiály, Vol. 4, No. 1/2001, pp. 54-55, Ostrava 2001

## IX.2 Books and Textbooks

- [1] GAŠPARÍK, J. et al.: Handbook of Technical Building Requirements. 1<sup>st</sup> ed., VERLAG DASHOFER, 400 pp., ISSN 1335-8634, Bratislava, 2001
- [2] GAŠPARÍK, J. - SZALAYOVÁ, S.: Qualité & Intégration Socio-Professionnelle. Textbook, 1st ed., 42 pp., ISBN 80-227-1492-5, ES STU Bratislava 2001
- [3] HEKELOVÁ, E. - GAŠPARÍK, J.: Quality Management in Services. 100 pp., ISBN 80-227-1515-8, STU Bratislava 2001
- [4] GAŠPARÍK, J. - NEVICKÝ, M. et al.: Pre-Construction Design and Control of Construction. 400 pp., ISSN 1335-8634, VERLAG DASHOFER Bratislava 2001
- [5] JURÍČEK, I.: Technology of Buildings. 167 pp., 1st ed., Jaga, Bratislava, 2001
- [6] HUDECOVÁ R. – MAKÝŠ O.: Ecology (Textbook for Comprehensive Schools). 72 pp., ISBN 80-968427-1-4, 1st ed., RENESANS, Bratislava 2001

## IX.3 Conferences

- [1] BIZUB, J.: Evaluation of a System Framework – Economic Criteria, Proceedings of International Conference on Developments in Building Technology, pp. 207- 210, ISBN 80-227-1572-7, Bratislava, September 2001
- [2] BOŽÍK M.: Life Cycle and Renovation of Internal Water and Heating Piping, Proceedings of International Conference on Developments in Building Technology, pp. 149-154, ISBN 80-227-1572-7, Bratislava, September 2001
- [3] BOŽÍK, M. – BOŽÍKOVÁ, J.: Life Cycle and Renovation of Internal Services in Housing, Proceedings of International VYKUROVANIE 2001 Conference, pp. 97–103, SSTP 0115, Stará Ľubovňa, March 2001
- [4] BÚCIOVÁ, M.: Biocorrosion in Buildings, Proceedings of International Conference on Developments in Building Technology, pp. 155-160, ISBN 80-227-1572-7, Bratislava, September 2001
- [5] FICKULIAK, I.: Static Model of Site Storage With Likelihood of Changeable Needs, Proceedings of International Conference on Developments in Building Technology, pp. 21-24, ISBN 80-227-1572-7, Bratislava, September 2001
- [6] FICKULIAK, I.: The Quality of Public Works, Proceedings of 2d International Scientific Conference on Quality and Reliability in the Building Industry, pp. 140-144, ISBN 80-7099-707-9, TU Košice, Levoča, October 2001
- [7] GAŠPARÍK, J.: Quality Management in Pre-Construction and Construction Phases, Proceedings of International JAKOST 2001 Conference, pp. E 50-E 54, ISBN 80—02-01423-5, Ostrava, May 2001
- [8] GAŠPARÍK, J.: Quality Control in Pre-Construction and Construction Phases According to Requirements of STN EN ISO 9001:2000, Proceedings of International Conference on Developments in Building Technology, pp. 25-30, ISBN 80-227-1572-7, Bratislava, September 2001
- [9] GAŠPARÍK, J.: Management Responsibility in the Process of Improving the Quality of Construction Firms, Proceedings of 2nd International Scientific Conference on Quality and Reliability in the Building Industry, pp. 173-178, ISBN80-7099-707-9, TU Košice, Levoča, October 2001
- [10] JURÍČEK, I.: Construction of Masonry Structures and New European Standards,

- Proceedings of International Conference on Developments in Building Technology, pp. 226-230, ISBN 80-227-1572-7, Bratislava, September 2001
- [11] MAKÝŠ O.: Renovation of Floors and Floor Tiles in Old Production Halls, Proceedings of International TECHSTA-2001 Conference on Industrial Floors, pp. 146-149, ISBN 80-01-02362-1, ČVUT Prague 2001
- [12] MAKÝŠ O.: Requirements for the Conservation of Old Masonry Works, Proceedings of 2d International Scientific Conference on Quality and Reliability in the Building Industry, pp. 332-335, ISBN 80-7099-707-9, TU Košice, Levoča 2001
- [13] MAKÝŠ O.: Rules for Making Plaster Repairs of Historic Buildings, Proceedings of International Conference on Developments in Building Technology, pp. 172-175, ISBN 80-227-1572-7, Bratislava, September 2001
- [14] MAKÝŠ, O.: Requirements for the Conservation of Old Masonry Works, Proceedings of 2d International Scientific Conference on Quality and Reliability in the Building Industry, pp. 332-335, ISBN 80-7099-707-9, TU Košice, Levoča, October 2001
- [15] MAKÝŠ, P.: The PERT Method in Time Planning, Proceedings of International Conference on Developments in Building Technology, pp. 95 – 100, ISBN 80-227-1572-7, Bratislava, September 2001.
- [16] MAKÝŠ, P.: Specifics of Implementation of ISO 9000 Standards in Construction, Proceedings of 2d International Scientific Conference on Quality and Reliability in the Building Industry, pp. 336-339, ISBN 80-7099-707-9, TU Košice, Levoča, October 2001
- [17] PROKOPČÁKOVÁ, K.: Project for the Mechanization of Building Processes and Decision-Making Factors, Proceedings of International Conference on Developments in Building Technology, pp. 251-254, ISBN 80-227-1572-7, Bratislava, September 2001
- [18] STRAŇÁKOVÁ, A.: Problems During the Reconstruction of Sanitary Units and Piping, Proceedings of International Conference on Developments in Building Technology, pp. 204 –206, ISBN 80-227-1572-7, Bratislava, September 2001
- [19] SZALAYOVÁ, S.: ISO 9001:2000 – The New Standard, Proceedings of 2d International Scientific Conference on Quality and Reliability in the Building Industry, pp. 506-509, ISBN 80-7099-707-9, TU Košice, Levoča, October 2001
- [20] SZALAYOVÁ, S.: The Requirements of a Quality Management System According to ISO 9001:2000, Proceedings of International Conference on Developments in Building Technology, pp. 139 – 142, ISBN 80-227-1572-7, Bratislava September 2001
- [21] ZAPLETAL, I.: Technology of Constructing a Central Exhaust System, Proceedings of International Conference on Developments in Building Technology, pp. 260–264, ISBN 80-227-1572–7, Bratislava September 2001
- [22] POKORNÝ, M. – NEBESKÝ, J.: Testing Paving Elements According to Standard STN 72 3213, Proceedings of Conference on Building Materials and Testing Methods - 2001, pp. 195-197, Štrbské Pleso, September 2001