

DEPARTMENT OF BUILDING TECHNOLOGY
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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 elastic-stiffness qualities of concrete structures
- RPZ - resonating equipment for testing the elastic-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. Juríček
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. Juríček
Thesis Seminar	10	0 - 2		
Facility Management	10	1 - 1		I. Fickuliak
Non-destructive 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. Božík

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 directed towards the long-term as well as the actual requirements of building practise and the pedagogical process. Activities focus mainly 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. Integration of the Latest World Quality Management Trends Into Pre-construction Design and Construction, VEGA 1/8319/01 (2002 – 2004 J. Gašparík)
2. LEONARDO da VINCI, No. F/01/1/B/P/PP-118060, “JUVENES MOBILES“ (2002-2004, J. 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. PREMAC 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

- RADUJKEVIČ, University of Zagreb, 3 days

VII. THESES

VII.1 Graduate Theses

No	Student's Name	Title	Supervisor
1.	BACHANOVÁ, L.	Production Hall – Part of Pre-Construction Design	M. Božík
2.	BEŇO, M.	Reconstruction of Space Under Roof on Šafárik Square No. 4 in Bratislava - Part of Pre-Construction Design	I. Juríček
3.	BETÁK, R.	Administration Building in Bratislava - Pre-Construction Working Design	A. Gron
4.	BLAHOVÁ, K.	System of Quality Management of a Building Firm and on Site According to ISO 9001:2001	J. Gašparík
5.	BÖGIOVÁ, M.	Superstructure Above Slovak Insurance Office Building in Liptovský Mikuláš - Part of Pre-Construction Design	I. Juríček

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| 6. | BRÁZDIL, L. | Reconstruction of Palugyai Palace – 1st Stage | I. Fickuliak |
| 7. | DUGOVIČ, R. | Language School on Palisády Street 38 in Bratislava | K. Prokopčáková |
| 8. | DUHÁR, M. | Roman-Catholic Centre – Part of Pre-Construction Design | M. Božík |
| 9. | FABOVÁ, E. | Conservation and the Repair of Some Parts of Trenčín Castle | O. Makýš |
| 10. | FÁBRY, V. | Multi-Functional Building on Žilinska Street Nos. 7-9 in Bratislava - Part of Pre-Construction Design | M. Búciová |
| 11. | HALUŠKA, M. | Renovation of Building on Hurban Square No. 3 in Bratislava - Pre-Construction Documentation | V. Klímek |
| 12. | HARAŠTA, V. | A Community Centre in Žilina - Part of Pre-Construction Design | P. Makýš |
| 13. | HENČEL, M. | Nondestructive Testing of Reinforced Concrete Building Structures | J. Gašparík |
| 14. | HLUCHÁŇ, M. | Administration Building - Part of Pre-Construction Design | A. Gron |
| 15. | HORVÁT, J. | Technical Control Station in Skalica - Pre-Construction Documentation | V. Klímek |
| 16. | HRNČIARIK, J. | Quality Management in Building Firm and On Site | J. Gašparík |
| 17. | HRUDKAY, R. | Quality Management in Building Firm and On Site | J. Gašparík |
| 18. | HUDEC, Š. | Superstructure Over Apartment House on Východná Street in Martin - Part of Pre-Construction Design | I. Juríček |
| 19. | HURBAN, F. | Multi-Functional Building RESS in Senica - Part of Pre-Construction Design | P. Makýš |
| 20. | JADROŇ, P. | Reconstruction of Palugyai Palace – 2d Stage | I. Fickuliak |
| 21. | JANOK, D. | Library - Part of Pre-Construction Design | M. Božík |
| 22. | KOZÁČEK, F. | Office and Business Building PPC in Bratislava - Part of Pre-Construction Design | P. Makýš |
| 23. | LEJČÍK, V. | Reconstruction of Food Production Centre in Beluša - Part of Pre-Construction Design | I. Juríček |
| 24. | LUKAČOVIČ, L. | Multi-Functional Sport Hall in Trnava - Part of Pre-Construction Design | I. Juríček |
| 25. | PETRÍK, J. | Library - Part of Pre-Construction Design | M. Božík |
| 26. | PETRUŠ, S. | Nondestructive Testing of Masonry and Concrete Building Structures | J. Gašparík |
| 27. | PONECHAL, M. | Multi-Functional Building on the Corner of Lazaretská and Ferienčíkova Streets in Bratislava - Part of Pre-Construction Design | M. Búciová |
| 28. | ROMPF, T. | Preservation of Uhrovec Castle Ruins | O. Makýš |
| 29. | SKÁCEL, R. | Production Hall and Office Building - Part | O. Makýš |

30. ŠVEC, P. of Pre-Construction Design
Spa Building - Part of Pre-Construction Design M. Božík
31. TALIAN, J. Shopping-Administrative Building on Šancová Street in Bratislava - Part of Pre-Construction Design V. Klímek
32. URÍK, M. Renovation of Esterhazy Palace in Bratislava – Pre-Construction Working Design O. Makýš
33. ZELNÍK, T. Sports Hall on Skuteckého Street in Bratislava - Part of Pre-Construction Design M. Búciová

IX. PUBLICATIONS

IX.1 Journals

- [1] BIZUB, J.: Frameworks on Sites. In: STAVBA, Vol. V, No. 9/2002, pp. 49–53, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [2] GAŠPARÍK, J.: Quality Management System According to STN EN ISO 9001:2001 – Management of Resources. In: STAVBA, Vol. V, No. 3/2002, pp. 62-64, ADORE Slovakia, Bratislava 2002
- [3] GAŠPARÍK, J.: Quality Management System According to STN EN ISO 9001:2001 – Production of Goods. In: STAVBA, Vol. V, No. 6/2002, pp. 61-63, ADORE Slovakia, Bratislava 2002
- [4] JURÍČEK, I. – MAKÝŠ, P.: Working Scaffolds. In: STAVBA, Vol. V, No. 1/2002, pp. 59–62, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [5] JURÍČEK, I.: Present and Future of Concrete Technology. In: STAVBA, Vol. V, No. 9/2002, pp. 16–18, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [6] KLÍMEK, V. – TALIAN, J.: Hydroinsulation of Basements on Asphalt Strip Bases. In: EUROSTAV, Vol. 8, No. 11/2002, pp. 6-9, ISSN 1335-1249-3, Bratislava 2002
- [7] MAKÝŠ, O.: Civic Structures in Ancient Rome (1st part). In: STAVBA, Vol. V, No. 2/2002, pp. 33 –35, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [8] MAKÝŠ, O.: Civic Structures in Ancient Rome (2d part). In: STAVBA, Vol. V, No. 3/2002, pp. 39 –41, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [9] MAKÝŠ, O.: Washing and Hygiene Equipment in Ancient Rome. In: STAVBA, Vol. V, Nos. 7-8/2002, pp. 40 –43, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [10] MAKÝŠ, O.: Technicians on a Journey. In: STAVBA, Vol. V, No. 3/2002, pp. 42 –44, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [11] MAKÝŠ, O.: Villa in Tiber and a Mausoleum in Rome. In: STAVBA, Vol. V, No. 10/2002, pp. 28–31, ISSN 1335-5406, ADORE s.r.o. Bratislava 2002
- [12] MAKÝŠ, P. – LUPTÁK, M.: Pros and Cons of the Quality Management System Certification. In: STAVEBNÝ PODNIKATEĽ, Vol. 12, No. 4/2002, Bratislava 2002
- [13] MAKÝŠ, P.: Preparation of Input Data for Stochastic Outlines of Procedures. In: Slovak Journal of Civil Engineering, Vol. 10, No. 2/2002, SvF STU, Bratislava 2002

IX.2 Books and Textbooks

- [1] GAŠPARÍK, J. – Strategy of Production Control and Quality, 1st ed., ES STU, ISBN 80-227-1762-2, Bratislava 2002
- [2] GAŠPARÍK, J. – Quality Management System According to STN EN ISO 9001:2001, Samples of Documents and Notice Forms, 1st ed., ES STU, ISBN 80-227-1703-7, Bratislava 2002
- [3] GAŠPARÍK, J. – Quality Planning on Site – Control and Testing Plans According to STN EN ISO 9001:2001, 1st ed., ES STU, ISBN 80-227-1644-8, Bratislava 2002
- [4] ZAPLETAL, I., et al.: Building Technology – Finishing Processes. 1st ed., ES STU, 379 pp., ISBN 80-227-1693-6, Bratislava, 2002

IX.3 Conferences

- [1] BIZUB, J.: System Framework From the Point of View of a Contractor. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 227-230, ISBN 80-7099-817-2, Košice, May 2002
- [2] BOŽÍK M.: Technology of Plastic Materials in Balneotherapy Piping. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 107-112, ISBN 80-7099-817-2, Košice, May 2002
- [3] BÚCIOVÁ, M.: The Problem of Graffiti From the Point of View of Technology. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 171-172, ISBN 80-7099-817-2, Košice, May 2002
- [4] FICKULIAK, I.: Education for Maintenance Management. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 145-148, ISBN 80-7099-817-2, Košice, May 2002
- [5] GAŠPARÍK, J.: Implementing Quality Management in Construction Companies. Proceedings of 2d SENET Conference on Project Management, Dubrovnik April 17-19 2002, (AJ, 8 A4 on CD, abstract, p. 82), Croatia 2002
- [6] GAŠPARÍK, J.: Creation and Usage of Quality Management System Documents. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 45-48, ISBN 80-7099-817-2, Košice, May 2002
- [7] GAŠPARÍK, J.: Notes on the Use of Quality Management in Building Organizations. Proceedings of 11th “JAKOST 2002” International Conference, pp. D31-D34, ISBN 80-02-01494-4, DT Ostrava, Czech Republic, Ostrava 2002
- [8] GAŠPARÍK, J.: Interaction of Quality Management Processes in Building Organizations According to STN EN ISO 9001:2001. Proceedings of International Scientific Conference on Quality in the Building Industry, pp. 83-88, TU Košice 2002
- [9] GAŠPARÍK, J.: The Use of Quality Management Systems in Building Organizations. Proceedings of “TECHSTA 2002” International Conference on Technology for Sustainable Development in the Building Industry, pp. 137-139, ISBN 80-01-02629-9, Prague 2002
- [10] GAŠPARÍK, J.: Juvenes Mobiles. Proceedings of International Seminar in Paris, pp.105-111, CNAM Paris 2002

- [11] JURÍČEK, I.: Evaluation and Design of Scaffolding. Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 103-106, ISBN 80-7099-817-2, Košice, May 2002
- [12] MAKÝŠ, O.: Removing Structures During the Renovation of Heritage Monument Buildings. Proceedings of "TECHSTA 2002" International Conference on Technology for Sustainable Development in the Building Industry, pp. 25-255, ISBN 80-01-02629-9, Prague 2002
- [13] MAKÝŠ, O.: Failure of Sanitation and Maintenance of Ecclesiastic Heritage. Proceedings of Conference on Ecclesiastic Buildings – 10 Years of Construction, pp. 102-104, ISBN 80-233-0472-0, DT ZSVTS Bratislava 2002
- [14] MAKÝŠ, O.: New Requirements for Pre-Construction Design, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 15-18, ISBN 80-7099-817-2, Košice, May 2002
- [15] MAKÝŠ O.: Repair of Jointing of Ancient Walls, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 205-208, ISBN 80-7099-817-2, Košice, May 2002
- [16] MAKÝŠ, P. – LUPTAK, M.: Certifying Technical Capabilities According to the Public Procurement Code. Proceedings of 3d International Symposium on Economy and Control Processes in the Building Industry and Investment Projects, pp. 27-28, ISBN 80-227-1737-1, Bratislava 2002
- [17] MAKÝŠ, P.: Methodology of Time Scale Creation With Regard to the Effect on a Working Environment, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 75-78, ISBN 80-7099-817-2, Košice, May 2002
- [18] MAKÝŠ, P.: Modelling Construction Progress With Regard to Changing Climatic Conditions. Proceedings of 3d "TECHSTA 2002" International Conference on Technology for Sustainable Development in the Building Industry, pp. 50-53, ISBN 80-01-02629-9, Prague 2002
- [19] PROKOPČÁKOVÁ, K.: The Effect of Building Failure on the Length of a Building's Life Cycle, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 159-162, ISBN 80-7099-817-2, Košice, May 2002
- [20] STRAŇÁKOVÁ, A.: Renovation and Reconstruction of the Synagogue in Šahy, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 163-165, ISBN 80-7099-817-2, Košice, May 2002
- [21] SZALAYOVÁ, S.: Transformation of a Quality Control System in Accordance with ISO 9001: 2000, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 65-66, ISBN 80-7099-817-2, Košice, May 2002
- [22] SZALAYOVÁ, S.: The Process of Securing Quality on Sites. Proceedings of 11th "JAKOST 2002" International Conference, pp. D35-D37, ISBN 80-02-01494-4, DT Ostrava, Czech Republic, Ostrava 2002
- [23] VARGOVÁ, Z.: The Future of Housing Maintenance, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 167-170, ISBN 80-7099-817-2, Košice, May 2002
- [24] VARGOVÁ, Z.: Building Maintenance Systems. Proceedings of 3d "TECHSTA 2002"

- International Conference on Technology for Sustainable Development in the Building Industry, pp. 105-108, ISBN 80-01-02629-9, Prague 2002
- [25] WAGNER, V.: The Reconstruction of Housing, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 231-234, ISBN 80-7099-817-2, Košice, May 2002
- [26] ZAPLETAL, I.: The Improvement of the Internal Environments in Buildings by Using Central Vacuum Cleaning Systems, Proceedings of 7th International Conference on Technology and Management in the Building Industry, pp. 113-114, ISBN 80-7099-817-2, Košice, May 2002