INSTITUTE OF MATHEMATICS AND INFORMATICS (IMI)

BULGARIAN ACADEMY OF SCIENCES (BAS)

SELF-EVALUATION REPORT

actual situation (based on the period 2004-2008) and prospective development

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I. Actual situation based on last five years achievements

1. Name of the research unit and date of establishment. Organization chart of the Unit.

The Institute of Mathematics and Informatics (IMI) of the Bulgarian Academy of Sciences (BAS) was established on October 27, 1947, with a decision of the BAS Governing Council.

At present time the organizational structure of IMI is shown in Figure 1.

2. Areas of activities and/or mission description.

The mission of the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences is to conduct research in fundamental and applied branches of mathematics and computer science (which not only enriches its foundations but also leads to direct or indirect applications), to undertake research strategies in harmony with the national and EU priorities, and to educate highly qualified young specialists in these areas. Table 1 provides in a compressed way the IMI publication activity in the period 2004-2008.

		2004	2005	2006	2007	2008
1.	**Published articles**	**295**	**292**	**291**	**389**	**307**
	abroad	183	193	191	227	207
	in Bulgaria	112	99	100	162	100
2.	**Accepted for publication**	**133**	**157**	**139**	**146**	**121**
	abroad	96	105	99	96	100
	in Bulgaria	37	52	40	50	21
3.	**Published books**	**5**	**7**	**3**	**10**	**18**
	abroad	5	4	2	5	8
	in Bulgaria	0	3	1	5	10
4.	**Textbooks**	**10**	**14**	**22**	**24**	**22**
5.	**Scientific-popular books**	**29**	**24**	**40**	**24**	**32**
	TOTAL:	**472**	**487**	**495**	**593**	**500**

Table 1. IMI publications

Brief description of some activities:

- Research in pure algebra, algebraic geometry, algebraic number theory and their applications to other areas of mathematics, informatics and natural sciences;
- Research in algebraic recursion theory, modal, temporal and other non-classical logics, and logic programming;
- Applied research in linguistics;
- Toponymics, Antarctic science and related applications;
- Optimization, Variation Principles, Optimal Control, Convex Analysis, Approximation Theory;
- Multidimensional Wavelet Analysis;

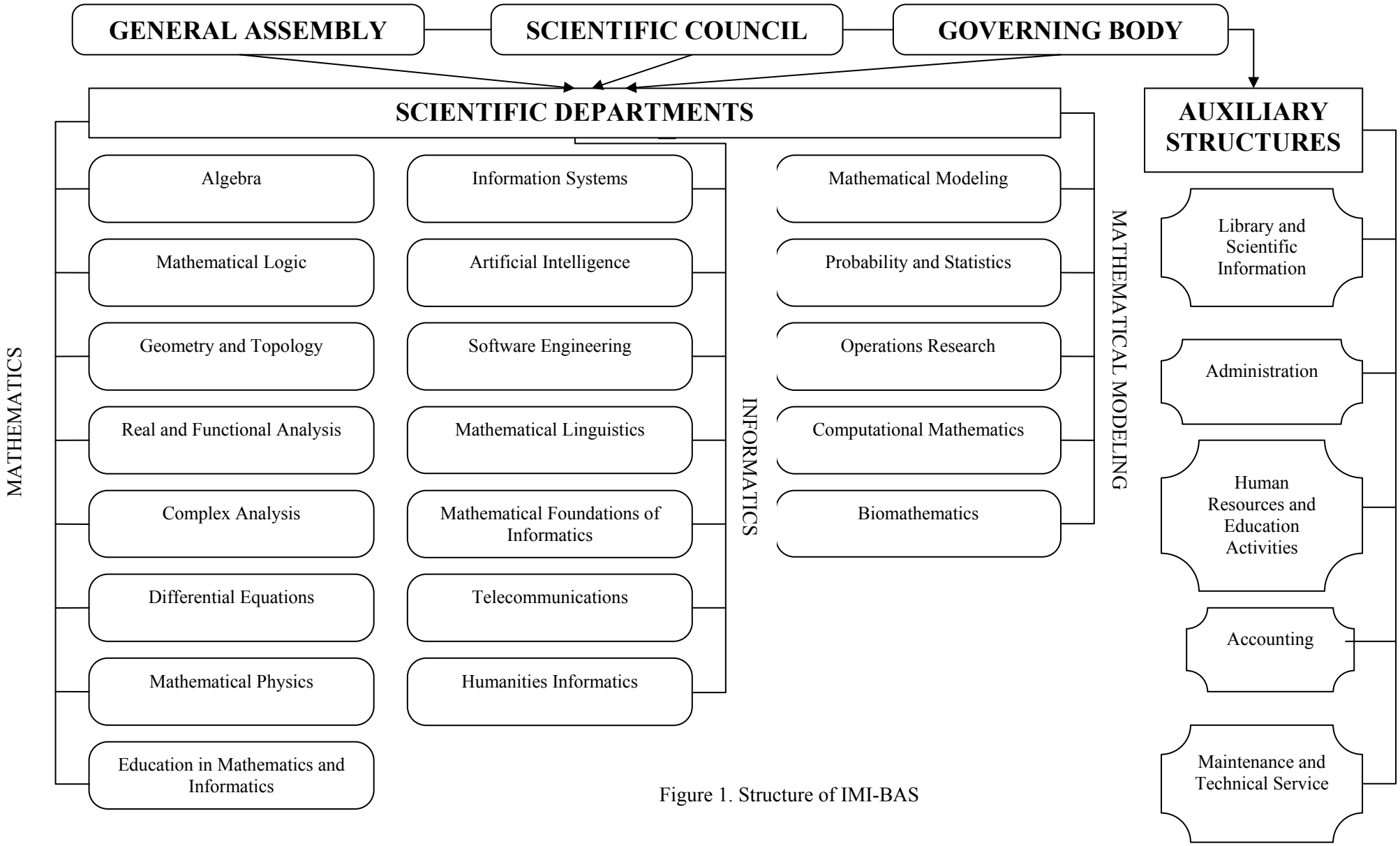

Figure 1. Structure of IMI-BAS

- Functions of one complex variable, approximation theory with rational functions in the complex plane, Padé approximations, best rational approximations in Chebyshev and L_p metrics in the complex plane, rational Chebyshev approximations of real-valued functions, analytic (meromorphic) extendibility, measure theory and orthogonal polynomials;
- Geometric functions theory: investigation of special classes of univalent functions and relations between them, coefficient problems, the Bieberbach hypothesis;
- Transform methods and special functions;
- Zeroes of entire functions, classical orthogonal polynomials, integral representations, the Bergman kernel function;
- Multidimensional complex analysis and complex geometry:
- Invariant pseudo-metrics in a multidimensional complex domain and their boundary behaviour;
- Analysis and geometry on complex and almost-complex manifolds: almost-holomorphic and almost-quaternionic functions and forms, deformation of almost-Kaeler structures, geometry of twistor spaces, Hermitian surfaces, Kaeler geometry;
- Convex-preordered topological vector spaces and functional algebras, representation theorems, vector analytic functions, non-Archimedean analysis;
- Data protection:
    - Algebraic and combinatorial coding theory;
    - Computational complexity;
    - Cryptology;
    - Digital communications;
- Pure algebra, algebraic geometry, algebraic number theory and their applications to other areas of mathematics, informatics and natural sciences;
- Functional spaces and operators in them;
- Nonlinear equations and Spectral theory of operators.
- Theoretical design of medical substances with special properties;
- Image presentation and digitization of the Bulgarian Cultural Heritage;
- Design, development and evaluation of knowledge resource sharing and management tools;
- Investigation of possibilities for using dynamic ontology in e-learning systems;
- Pattern Recognition and Image processing:
    - Computer vision, machine learning and medical image processing;
    - Biomedical modeling and decision making systems;
    - Supervised pattern recognition with heterogeneous features;
    - Discrete Applied Geometry;
    - Combinatorial image analysis.
- Computer Graphic:
    - Digital geometry and topology;
    - Algorithms and programs for 3-D effects on 2-D figures (bevel, emboss etc.);
    - An XML based language for vector description of plane figures.
- Computer methods in algebra:
    - Characterization of finite soluble groups according to commutator laws satisfied by them using computer technology;
    - Computer Algebra systems and their application in Group Theory;
    - Solving equations in groups;
    - Conjugacy classes in finite simple groups;
    - Formal grammars and languages; Automatic groups; Computer simulation;
- Computer algebra systems:
    - Direct Operational Methods in Program Environment for Computer Algebra;
- Natural Language Processing:

    - Integrated presentation of linguistic and common knowledge about world in unified space;
- Information and Communication Technology Applications in Modern Society:
    - Hierarchical structures in relative data bases;
    - Web-based tools for disabled people and their families;
    - Medical Information systems;
    - "Serious" business games;
    - Business management programs and systems;
    - On-line publishing systems;
- Neural networks for analysis and classification of functions behavior:
- Design, development and implementation of educational strategies, methods, technologies, environments and models in the context of ICT;
- Investigation of possible topics from natural sciences and arts suitable for computational modeling and development of relevant educational modules;
- Design, development and implementation of instrumentation for identification of young talents in mathematics, informatics and linguistics;
- Scientific and organizational support of contests in mathematics, informatics and linguistics, summer schools and workshops with pupils and teachers;
- Design of assessment tools for innovative educational methods and technologies.

3. Relation of the research areas and topics of the unit with the research policies and programs approved by the General Assembly of BAS, and with national and/or EU research priorities.

The IMI scientific and administrative leadership:

3.1. fully shares the ideas described in the **Green Paper: The European Research Area: New Perspectives, Brussels, 4.4.2007.** This renewed Lisbon Strategy aimed at building of European knowledge society, particularly its core elements - the European Research Area (ERA), almost entirely coincides with IMI's basic activities. The **Green Paper** claims that the European knowledge society "*is one where research, education, training and innovation are fully mobilised to fulfil the economic, social and environmental ambitions of the EU and the expectations of its citizens*."
It is worth to point out that "*research, education, training"* are unified in IMI and are on a high international level. Moreover, IMI meets the following **Green Paper** requirements:

- **an adequate flow of competent researchers** with high levels of mobility between institutions, disciplines, sectors and countries;
- **world-class research infrastructures**, integrated, networked and accessible to research teams from across Europe and the world, notably thanks to new generations of electronic communication infrastructures;
- **well-coordinated research programmes and priorities**, including a significant volume of jointly-programmed public research investment at European level involving common priorities, coordinated implementation and joint evaluation;
- **a wide opening of the European Research Area to the world** with special emphasis on neighbouring countries and a strong commitment to addressing global challenges with Europe's partners.

3.2. actively supports the efforts of BAS leadership to integrate Bulgarian science into the **European Research Area.** IMI joined the position of BAS expressed in the letter of its President to the Minister of Science and Education and to the Chairman of the Parliament Commission for Science and Education of Bulgaria concerning the "National Strategy for Development of Scientific

Investigations (2008-2018)". Particularly, internationally recognized scientific centers such as IMI must be developed according to high level ERA standards. For example, 75% of the science in Germany is created in research centers such as "Max-Plank", "Fraunhofer", "Leibnitz", "Helmholz", etc.

Here follow three examples of IMI's research activities in support of the above assertions:

- The main part of the research of the Department of Algebra is devoted to purely algebraic and to algebraic-geometric problems, which is in the frame of the strategy of the Academy that pure research does not only enrich science but leads also to direct or indirect applications to other sciences and practice. Members of the Department perform also research and participate in teams working on direct applications of Algebra and Combinatorics to Chemistry, Information Technologies, etc.;
- The Humanities Informatics Department works in areas compatible with the Digital Libraries flagship initiative of the i2010 programme of the European Commission, more specifically, with the digitisation, online accessibility and the long-term preservation of cultural and scientific resources;
- The ICT Work Program under FP7 is divided into seven 'Challenges' of strategic interest to European society, plus research into 'Future and emerging technologies' and support for horizontal actions, such as international cooperation (http://cordis.europa.eu/fp7/ict/programme/home_en.html).

  The first challenge covers the field of research of the Telecommunications dept. of IMI-BAS: Challenge 1 - Pervasive and Trustworthy Network and Service Infrastructures (http://cordis.europa.eu/fp7/ict/programme/challenge1_en.html).

4. Leadership – description based on the Organization chart with the names and titles of all leaders elected or appointed (directors, deputy directors, scientific secretaries, heads of structural units according to the Organization chart, chairperson of the scientific council, etc);

According to the Annex 6 the total staff is 222 persons and following the Organization chart (Figure 1) the leaders elected or appointed at IMI departments are given in Table 2 (all persons with scientific degree are elected):

Governing body		Staff	
	IMI Director		Academician, Prof. DSc Stefan Dodunekov
	IMI Deputy director		Prof. DSc Oleg Mushkarov
	IMI Deputy director		Assoc. Prof. PhD Radoslav Pavlov
	IMI Scientific secretary		Assoc. Prof. PhD Andrey Andreev
	IMI Scientific Council Chairperson		Corr.-member Prof. DSc, Vesselin Drenski
	IMI General Assembly Chairperson		Prof. DSc Jochan Davidov
Mathematics			
	Algebra	8,25	Assoc. Prof. PhD, Ivan Chipchakov

	Logic	5	Assoc. Prof. PhD, Lubomir Ivanov
	Geometry and Topology	4	Assoc. Prof. PhD, Georgy Ganchev
	Real and Functional Analysis	4	Prof. DSc Kiril Kirchev
	Complex Analysis	11	Prof. DSc Oleg Mushkarov
	Differential Equations	10,25	Academician Prof. DSc, Petar Popivanov
	Mathematical Physics	7,25	Prof. DSc Angela Slavova
	Education in Mathematics and Informatics	8	Assoc. Prof. PhD, Evgenia Sendova
Informatics			
	Information Systems	12	Prof. DSc Petar Stanchev
	Artificial Intelligence	7,25	Assoc. Prof. PhD, Alexander Gerov
	Software Engineering	9,5	Assoc. Prof. PhD, Avram Eskenazy
	Mathematical Linguistics	9,5	Assoc. Prof. PhD, Radoslav Pavlov
	Math. Foundations of Informatics	19,25	Assoc. Prof. PhD, Nikolai Manev
	Telecommunications	4	Assoc. Prof. PhD, Stoian Poriazov
	Humanities Informatics	6,5	Assoc. Prof. PhD, Nikola Ikonomov
Mathematical modeling			
	Mathematical Modeling	9,75	Assoc. Prof. PhD, Nikolai Kiurkchiev
	Probability and Statistics	12,5	Prof. DSc Nikolai Yanev
	Operations Research	16,5	Corr.-member Prof. DSc, Julian Revalski
	Numerical Mathematics	7	Assoc. Prof. PhD, Natalia Kolkovska
	Biomathematics	5,5	Prof. DSc Svetoslav Markov
Auxiliary structures			
	Library and Scientific Information	5	Kossia Petrova
	Administration	5	Lidia Radeva
	Human Resources and Education Activities	8	Georgi Genchev
	Accounting	4	Galia Georgieva
	Maintenance and Technical Service	16,5	Zvetanka Nesheva

Table 2

5. <u>Researchers</u> and other personnel. Analysis of personnel and personnel development in the period 2004-2008. Separate information about the *young researchers*.

The details about research staff and other personal are given by Annexes 6 and 7 and Table 2.

The development of the research staff in the period 2004-2008 is described in Table 3. In that period PhD and DSc 204 scientists worked at IMI, including:

- 4 academicians;
- 4 correspondent members of BAS;
- 8 professors;
- 1 associate professor;
- 28 first degree senior research fellows (equivalent to Professors);
- 100 second degree senior research fellows (equivalent to associate professors);
- 32 first degree research associates;
- 17 second degree research associates;
- 8 third degree research associates;
- 2 researchers.

Year	Number of IMI researchers promoted or defended PhD/DSc degree								
	Research associates -degree			Senior research fellows-degree		Corresponding Members of BAS	Academicians	Defended	
	third	second	first	second	first			PhD	DSc
2004	4	2	2	1	5	3		1	2
2005		2	1	3	2			1	2
2006	2	6	1	2				4	1
2007		2	1	3	2			1	
2008	4		2	4	2	1	1	3	2
Total:	10	12	7	13	11	4	1	10	7

Table 3

During 2004-2008 the number of young researchers under 35 years of age at IMI was 24. The scientific development of part of them is given by Table 4 (the picture for 2008 can be seen in Annex 7).

Year	Number of researchers under 35 promoted or defended PhD				
	Research assoc. III degree	Research assoc. II degree	Research assoc. I degree	Sr. Research fellows II degree	Defended PhD
2004	3			1	1
2005		2			1
2006	1	2	2		2
2007	2	1	3	2	3
2008	1	3	1		1
Total	7	8	6	3	8

Table 4

Tables 1-4 and Annexes 6, 7, 8 lead to the following conclusions:

- IMI has the necessary number of highly qualified scientists for conducting world level mathematics and computer science research;
- The IMI research staff cover many of the basic research directions in contemporary mathematics and computer science;
- The professional promotion of IMI scientists meet the expectations for their development;
- IMI has a strong group of young scientists.

6. Formal and informal bilateral and multilateral co-operation and relations with other research establishments:

6.1 within the Academy (examples of complementary and interdisciplinary approaches):

IMI carries out several joint projects with the following institutes of the Bulgarian Academy of Sciences:

- Academic Publishing House "Prof. Marin Drinov";
- BAS Educational Center;
- Center for National Security Research at BAS;
- Central Laboratory of Biomedical Engineering;
- Central Library at the Bulgarian Academy of Sciences;
- Ethnographic Institute and Museum at BAS;
- Institute of Bulgarian Language;
- Institute of Electronics;
- Institute of Information Technologies;
- Institute of Mechanics;
- Institute of Parallel Processing;
- Institute of Physiology;
- Institute for Folklore;
- Laboratory of Telematics;
- The Institute for Literature;
- The Scientific Archive at BAS;
- Center on Architecture at BAS.

6.2 at national level (complementary and interdisciplinary approaches; involvement of university and industrial partners)

On national level IMI has bilateral agreements with:

- G.S. Rakovski Defense Staff College;
- L. Karavelov Civil Engineering Higher School;
- American College, Sofia;
- American University in Bulgaria, Blagoevgrad;
- Antarctic Place-names Commission of Bulgaria;
- Bulgarian Institute for Standardization;
- Bulgarian National Library;
- College of Telecommunications and Post, Sofia;
- D.A.Tsenov Academy of Economics, Svishtov;
- Economics University, Varna;
- Gabrovo Technical University;
- Higher Attestation Commission at the Council of Ministers;
- Konstantin Preslavsky University of Shumen;

- Ministry of Defense of Republic of Bulgaria;
- Ministry of State Policy for Disasters and Accidents;
- National Military University;
- New Bulgarian University;
- Paisii Hilendarski University of Plovdiv;
- Angel Kantchev University of Rousse;
- Sofia University (Faculty of Mathematics and Informatics & Faculty of Philosophy);
- South-West University, Blagoevgrad;
- St. Cyril and St. Methodius University of Veliko Tarnovo;
- State Agency for Information Technology and Communications;
- State University of Library Studies and Information Technologies;
- Technical University, Sofia;
- The National Fine Arts Gallery;
- The Ivan Vazov National Library, Plovdiv;
- The St. Cyril and St. Methodius National Library, Sofia;
- The National Museum of History;
- The State Archives;
- Todor Kableshkov Higher School of Transport, Sofia;
- Varna Free University;
- Varna Technical University.

It is clear from the above list that IMI maintains dozens of bilateral scientific and educational projects with the most significant research institutes and universities, cultural and governmental institutions in Bulgaria.

IMI takes part in the educational process of almost all universities in Bulgaria in the field of Mathematics and Informatics. Every year approximately 10000 lecture hours are delivered by IMI staff. Annex 9 provides full description of IMI university educational activities (including a series of foreign universities).

6.3 in Europe and world wide (internationalization of the research; participation in the construction of European research area; regional collaborations in Central and Eastern Europe).

Development in the period 2004-2008; Assessment of the importance of such cooperation;

IMI supports bilateral research projects with France, Germany, Greece, Russia, USA, Sweden, China, Japan, Korea, etc. These projects are funded by the participating institutes.

According to the construction of European research area IMI:

- organized in the period 2004-2008 more than 50 international conferences, seminars, workshops, etc. (details are given in Annexes 1 and 11);
- took part in the following European and another projects:
    - DAAD - Center of Excellence for Applications of Mathematics –Project in the Framework of the Stability Pact for South Eastern Europe;
    - Humboldt Foundation, University Duisburg-Essen; Institute partnership project “Theory of polysplines and applications”;
    - NATO:

        2002 - 2005**:** NATO Collaborative Linkage Grant "Monotone Operators and their Applications" NATO-CLG 978488, including Simon Fraser University (Vancouver, Canada), Paris 6 University, University of Limoges, University of Montpellier-France and Institute of Mathematics and Informatics, BAS. Coordinators: J.P. Revalski, IMI-BAS, J. Borwein, Vancouver (and Halifax), Canada.

Science for Peace Program – 2005 SST.EAP.SFPP981149; with NOA – Germany and TNO-FEL – Holland.
"Operational research help for force and operations planning in nowadays security environment".
"Operation Research Support to Force and Operations Planning in the New Security Environment".
Science for Peace and Security Program, ARW Enhancing Cryptographic Primitives with Techniques from Error Correcting Codes, 05-09.10.2008, V. Tarnovo, BG, Bart Preneel (Leuven, Belgium), St. Dodunekov (IMI, BG).

- Manfred Wörner Foundation, Free topographic map "Bulgaria in Antarctica" for all Bulgarian schools;
- Socrates-Erasmus:
  - 114-CP-1-BG-Erasmus-TN "European Thematic Network for Doctoral Education in Computing" 2005-2007;
- COST:
  - 285 "Instruments for modeling and simulation research in multi service telecommunications";
  - 290 "Traffic and quality management of service in wireless multimedia network".
- ELOST: 6FP-EC – SSA 027287 "E-Government for Low Status Group";
- HUBUSKA: 6FP of EC INCO-CT-2003-003401, Networking Centres of High Quality Research on Knowledge Technologies and Applications; with Austria, Hungary, Slovakia;
- CHIRON: Leonardo da Vinci FR/04/C/F/RF-81103, Referring Innovative Technologies and Solutions for Ubiquitous Learning; with France, Greece, Hungary, Italy, Sweden, UK;
- LOGOS: 2006 6FP-EC IST-STREP- 027451 "Knowledge on Demand for Ubiquitous Learning";
- COMENIUS:
  - #226159-cp-1-2005-1-it-Comenius-c21 2004.
- Marie Curie – KT DigiCult Bg MTCD-CT-2004, 509754 KT;
- TEMPUS: TEMIT, Teacher Education- Innovation of Studies in Mathematics and IT, Serbia, Finland, Slovenia;
- MATHEU-Identification, Motivation and Support of Mathematical Talents in European Schools, 2003 – 2006;
- ETN – DEC (Doctoral Education in Computing), 2005 – 2008;
- ETN – TRICE (Teaching, Research and Innovation in Computing Education), 2008 – 2011**;**
- InnoMathEd (Innovations in Mathematics Education on European Level), 2008 – 2011
- MONDILEX - 7th FP of the EC, Grant Agreeement No 211938, Conceptual Modelling of Networking of Centres for High-Quality Research in Slavic Lexicography and Their Digital Resources, with Poland, Slovak Republic, Slovenia, Russian Federation, Ukraine.

Projects financed by other foreign organizations

IMI supports mutual projects with universities/academies of the following countries:

- Belgium-1;
- Czech Republic-1;

- Finland-1;
- France-1;
- Germany-3;
- Hungary-6;
- Israel-6;
- Italy-1;
- Poland-1;
- Romania-2;
- Russia-5;
- Serbia-2;
- Slovakia-1;
- Ukraine-2.

The contacts and projects listed above (details are in Annex 11) are vital for the development of Bulgarian science in the field of Mathematics and Computer Science. And vice versa, prominent scientists from prestigious scientific centers willingly joint research with IMI scientists (Annexes 10 - 12 provide enough evidences). As short list of some worldwide research centers proves this claim:

- A.I. Ioffe, Technion, Haifa, Israel);
- Alfred Renyi Inst. Math., Hungary;
- Bell Labs and Lucent, USA;
- Institute for Information Transmission Problems –RAS, Moscow;
- INRIA, France;
- International Institute for Software Technology, United Nations University, Macau, China;
- Laboratory of Algorithmic, Complexity and Logic-University of Paris XII, France;
- School of Computer Science, University of Birmingham, UK;
- Scientific Committee on Antarctic Research, Cambridge, UK;
- State Key Laboratory of Computer Science, Institute of Software, Chinese Academy of Sciences, Beijing, China;
- University of Bergen;
- University of Electro-Communication – Tokyo;
- University of Ghent;
- University of Leuven-Belgium, COSIC, Leuven;
- University of Linkoeping;
- University of Namur, Belgium;
- University of Perugia, Italy.

Formal bilateral and multilateral co-operation and relations:

(Joint participation in projects, lexicographically by countries; the list is non-exhaustive):

- Canada, Halifax University;
- Canada, Simon Fraser University – Burnaby BC;
- France, CNRS (Centre national de la recherche scientifique);
- France, Pierre & Marie Curie University (Paris 6);
- France, University of Limoges;
- Germany University of Bremen;
- Germany, DFG;
- Germany University of Potsdam;
- Germany, Max Planck Institute of Mathematics and its Applications - Leipzig;
- Germany, Niemeyer Operation Analysis;
- Germany, University of Bonn;

- Germany, University of Duisburg-Essen;
- Holland, TNO-FEL;
- ICMI Study 16 (Challenging Mathematics in and Beyond the Classroom), Financed by ICMI, the International Commission for Mathematics Education, which is a Commission of IMU;
- Israel Technion - Haifa;
- Israel, Netanya Academic College, Netanya;
- Russia Academy for Public Resources (Moscow);
- Russia Joint Institute for Nuclear Research in Dubna;
- USA, Memphis University.

Informal bilateral and multilateral co-operation and relations:

(e.g. Participation of scientists in research projects coordinated by the respective institutions; lexicographically by countries; the list is non-exhaustive and does not include the institutions already mentioned in 6.3.A.):

- Argentina, National University of Cuyo – Mendoza;
- Argentina, National University of Cuyo – San Luis;
- Austria, Vienna Institute of Demography, Austrian Academy of Sciences;
- Austria, Vienna University of Technology;
- Belgium, Université Catholique de Louvain;
- Chile, University of Chile;
- France, Agence Nationale de la Recherche, ANR;
- France, IRISA – Rennes;
- France, University of French West Indies;
- France, University of Montpellier 2;
- France, University of Valenciennes;
- Italy, Politecnico di Milano;
- Italy, University of Rome 2;
- Mexico, BUAP University – Puebla;
- Mexico, UDLA – Puebla;
- Mexico, Universidad Tecnologica de la Mixteca, Huajuapan de Leon, Oaxaca;
- Moldova, Tiraspol State University - Chişinău;
- Peru, Instituto de Matemática y Ciencias Afines – IMCA, Lima;
- Spain, Alicante University – Alicante;
- Spain, University of Elche – Elche;
- Spain, University of Jaen – Jaen;
- USA University of Ohio;
- USA, Stevens Institute of Technology.

There were numerous positive outputs of the Projects listed in 6.1 – 6.3. For instance, the Web access to the Database with scientific degrees and titles considerably reduced the attempts to present as genuine falsified documents pretending to be issued by the Higher Attestation Commission to the Council of Ministers. The creation of the Information System of the Higher Attestation Commission allows revealing trends in the development of the Bulgarian scientific potential with respect to many criteria: gender, scientific area, average age of professors and associate professors, etc.

The collaboration with specialists from such leading institutions as Technion, Haifa Israel, Simon Fraser University and Halifax University, Canada, Paris 6 University, University of Montpellier France, etc. has allowed us to keep our research in Optimization, Variation Analysis and related fields on a high international level.

One of the main practical achievements of IMI is the development and the pilot implementation of digitisation workflows for various types of cultural materials. In 2004-2008 IMI established cooperation with national cultural and scientific heritage institutions and worked on joint projects with them. In this 5-year period IMI took part in the EC-funded projects KT-DIGICULT-BG, COMTOOCI[1] and DIGMAP[2] and was an associated member of MINERVA[3], MICHAEL[4] and EDL[5]. Its staff members also took part in the activities of the projects Great-IST[6], DELOS[7], EDL.net[8] and SHAMAN[9]. IMI is amongst the founding members of SEEDI, the South-East European Digitisation Initiative[10], which brings together specialists from EU member states, West Balkan countries, EU candidate states and New Independent States (NIS) – a unique regional informal network which already organised four international conferences on digitisation.

7. Organization of the research process at the unit: team work, individual research activities, seminars, quality control, supervision of junior researchers, institutional planning and reporting, description of the internal procedures of evaluation etc.

Standard practices established in the Institute of Mathematics and Informatics:

- in addition to individual work, which is in some extent natural for mathematicians, team work of researchers with overlapping research areas of interest is typical. For example:
    - Algebraic recursion theory, non-classical logics, Romanization of Bulgarian, Cyrillic keyboard standardization, etc.;
    - The Scientific Seminar of the Department of Algebra has the reputation of a National Algebra Seminar. Its speakers are also mathematicians of other Bulgarian institutions and visitors from abroad. Quite often the meetings of the Seminar have an interdisciplinary character and are shared with other Departments of the Institute and with the Chair of Algebra of the University of Sofia. In the end of every year the members of the Department report the results of their research during the year. Periodically (every 5 years) they pass an attestation for their activity and the process starts from the Seminar of the Department;
    - In addition to the traditional research lifecycle, including research, participation in projects and supervision of PhD students, IMI took part in the EC-funded transfer of knowledge activity in 2004-2008. The digitisation line of one of IMI departments allows combining the research with practical activities. In 2005 a scientific seminar entitled "Digitization of Scientific and Cultural Heritage" was started;
- regular reporting of new results at seminars and sessions (22 research seminars are active at IMI. As a rule each IMI department has a scientific seminar. Some

[1] COMputational TOOls for the librarian and philological work in Cultural Institution, funded by the Culture 2000 programme, http://www.ilc.cnr.it/comtooci/

[2] Discovering our Past World with Digitised Maps, funded by the eContentplus programme, ECP-2005-CULT-038042, http://www.digmap.eu/

[3] Ministerial NEtwoRk for Valorising Activities in digitisation, a series of projects funded by FP6 and eContent programmes, http://www.minervaeurope.org/

[4] Multilingual Inventory of Cultural Heritage in Europe, http://www.michael-culture.org/en/home

[5] European Digital Library NETwork, the project which develops the pilot version of Europeana, http://www.europeana.eu/portal/ Dr. Milena Dobreva is a member of WP2, Standards and Interoperability.

[6] Bringing Together IST Research Stakeholders from Western Balkans, Newly Independent States and Associated Candidate Countries, http://www.great-ist.org/, Dr. Milena Dobreva served as leader of Work Group 1: Developing institutional infrastructure in support of IST research and establishing effective communication with IST stakeholders; Dr. Nikola Ikonomov served as a national expert.

[7] DELOS Network of Excellence in Digital Libraries, http://www.delos.info, Dr. Milena Dobreva took part in the development of the Digital Library Reference Model (DLRM).

[8] EDL.net is the thematic work which worked on the development of the prototype for Europeana – the European Digital Library. www.europeana.eu

[9] Sustaining Heritage Access through Multivalent ArchiviNg, http://www.shaman-ip.eu/, Dr. Milena Dobreva is coordinating Work Package 2 which develops the reference architecture of SHAMAN.

[10] http://www.ncd.matf.bg.ac.yu/seedi/index.htmling

departments maintain more seminars – for example, the department of Probability and Statistics has also a seminar on Financial Mathematics);
- planning and evaluation of scientific activities;
- apart from seminars, the results are also reported regularly at international workshops and conferences;
- IMI annual scientific report sessions in December play a special role in raising the awareness of the Bulgarian Mathematical Society.

The Attestation Commission (AC) to the Scientific Council of IMI – BAS consists of 7 persons having an academic rank. All major branches of the mathematics and informatics are presented in the commission. In a year three meetings in average are held. Every colleague to be attested has about 1 month to prepare the necessary materials, namely:

- Personal report on the base of attached pattern, taking in account the evaluation criteria;
- Full list of publications and applied elaborations;
- Author's information about the main scientific contributions after the last attestation;
- Evaluation made by the department chair;
- Protocol of the department meeting where the personal report and the chair's evaluation are considered.

The AC has the files of all scientific ranks at its disposal. In its activity it is led by the Criteria and Methods for Attesting Scientists at BAS (from 22.03.99) using the following evaluation degrees:

- A - the activity of the attested colleague corresponds to the requirements of her/his scientific rank;
- B - the activity of the attested colleague exceeds the requirements of her/his scientific rank;
- C - the activity of the attested colleague is weaker than the requirements of her/his scientific rank.

After every meeting the AC sends a report to the Chair of the Scientific Council of IMI with the attestation results. The Scientific Council accepts the report by an open vote.

Colleagues without a habilitation are attested once in 3 years, the others once in 5 years. Let us add some statistical data: in the last 8 years 196 colleagues have been attested and another 15 are in prospect.

8. Participation of the unit in different educational activities. Analysis for the period 2004-2008. Critical assessment of these activities. PhD training should be considered separately and should include critical analysis of the conditions and quality of this training.

8.1. IMI High school student activities

One important activity in the Institute of Mathematics and Informatics is the work with young and talented high school students:

- Traditionally IMI takes part in out-of-school preparation and scientific service of talented high school students in mathematics, informatics, computer technologies and linguistics on regional, national and international levels. These activities include a series of national competitions and international Olympiads - in the informal team ranking Bulgaria has regularly been joining the first rank of ten among more than 80 participating countries;
- Preparation of printed materials and lectures for high school teachers. Dozens of textbooks for the secondary schools were approved by the Ministry of Education in Bulgaria.

The High School Institute of Mathematics and Informatics at IMI

The founding of the High School Students Institute of Mathematics and Informatics (HSSI) was one of the initiatives of the Bulgarian mathematical community in the celebration of the World Mathematical Year 2000.

Founders of HSSI are the Union of Bulgarian Mathematicians (UBM), the Heureka Foundation, the St Cyril and St Methodius International Foundation and the Institute of Mathematics and Informatics (IMI) at the Bulgarian Academy of Sciences. Thanks to the well-developed network of Mathematics and Informatics competitions for secondary school students in Bulgaria the young people can exhibit their abilities and gifts. For more than 20 years Bulgarian high school students successfully participate in the International Mathematics and Informatics Olympiads. There are many students however, who are highly creative only if not limited by a short fixed time for completing a mathematical problem. It is the mission of HSSI to identify such students and to take care of their development as future leaders in science.

An important factor for the creation of HSSI was the long-term collaboration between the Center for Excellence in Education and the founders (IMI and St. *Cyril and St. Methodius* Foundation). Thus one of the main ideas behind HSSI was *to implement RSI-like activities in Bulgaria, taking into account the local conditions and traditions.*

The local conditions included as a crucial factor the infrastructure and activities of the UBM, which has long-standing traditions in early identification and proper enhancement of talents. Since 1980, School Sections in the framework of the annual Spring Conferences of UBM have been organized, where high school students presented their papers. The interest in these Sections shown by teachers as well as students was great. This contributed naturally to the mission of HSSI *to keep the traditions alive giving them new spirit and new content.*

Another important component of the local conditions is the environment provided by the Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences stimulating the growth and the progress of HSSI – Library, Internet, rooms and equipment. Many researchers at the Institute devote a significant part of their free time to keep the level of extra-curricular work with talented students high. Their work supports and enables *HSSI to assist the intellectual and professional growth of the high school students.*

The participants

The participants in HSSI are high school students between 8th and 12th grade, usually aged 15 to 18, mainly from specialized Science and Mathematics Secondary Schools in the country. Every participant in HSSI works individually (or in a team) on a freely chosen topic in Mathematics, Informatics and/or Information Technologies under the guidance of a teacher or another specialist. A written presentation of the project (a paper) is sent to HSSI. All papers are refereed by specialists and the reviews are given to the authors. Papers involving creativity elements are given special credit. The best projects are accepted for a presentation in the conference sessions of HSSI. The distribution of participants shows that big and small towns alike are involved in sending their representative in the HSSI.

The events (including the period 2004-2008)

During one school year HSSI organizes three events - two conference sessions and a research summer school. The *High School Students' Conference* is usually held in January at the Plovdiv branch of the HSSI (the Faculty of Mathematics and Informatics at Plovdiv University) and is attended by more than 200 students, teachers, researchers in mathematics and informatics, parents, journalists. The conference is held in two streams – mathematics and informatics/IT. The authors present their work in front of a Jury of specialists in the field and in the presence of the general audience. The jury can ask the students various questions at the end of their presentations so as to check the level of their understanding and creativity. The projects in informatics and IT are additionally run on computers to be judged by a specialist from technical point of view before being presented to the general audience and the jury. Parallel to these two streams is a poster session.

Based on the merits of the paper and the style of presentation, the Jury judges the works and selects the best ones. Their authors receive Certificates for Excellence; all other participants are given Diplomas for participation in the event, which is already a kind of recognition.

The authors of the best projects in the *High School Students' Conference* are invited to take part in an Interview for selecting two Bulgarian participants in the Research Science Institute (RSI), held at MIT, USA, and to participate in the *School Section* at the expenses of HSSI.

The School Section is an independent event – it can be attended by students who present their research for a first time. The process of reviewing and selecting papers for the *School Section* is the same as above. The authors of the best projects from this section are invited to participate in the Research Summer School at the expense of HSSI

Since year 2000 the HSSI selects the Bulgarian representatives for RSI. The interviewers include researchers from IMI (possibly from other research institutions), representatives from St. Cyril and St. Methodius Foundation and most importantly – RSI alumni. The questions aim at checking the fluency of the candidates in English, their general and professional culture, talents in other fields (sports, music, etc.), and social skills. Already from the questions of their peers the candidates realize that to participate in RSI is not only a great honour but a challenge and a responsibility to pass on to others what they have learned. The selection process is difficult – two RSI participants and two alternates are chosen among about 20 excellent candidates based on their overall performance – their work on the projects, their presentations, achievements in mathematics and informatics events, and the interview.

Another crucial event in the frame of the HSSI is the three-week Research Summer School taking place in July–August in Bulgaria. During the first two weeks, lectures and practical courses in Mathematics and Informatics are delivered by eminent specialists from universities, academic institutions and software companies. The main goal of the training is to extend the students' knowledge in topics related to their interests and to offer new problems to study and solve in further projects. Then the students start working on a short-term project.

The third week is devoted to a High School Students Workshop, where the participants report on their results and exchange ideas for further studies. The presentations are in front of specialists whose role is to advise the students in finding the right topics and problems to study, to recommend methods and tools to use to achieve high quality results.

To help teachers improve their mentoring skills a *High School Teachers Workshop* is organized during the third week of the Research Summer School. The participants are the research advisors of the students projects presented at the events of HSSI during the school year.

2008

- 29 students (8th – 11th grade) from Sofia, Varna, Rousse, Shumen, Kurdjali, Pazarjik, Montana;
- 10 teachers Sofa, Varna, Rousse, Kurjali, Pazarjik;
- 5 mentors and 2 lecturers from the University of Pisa and Neofit Rilski South-West University.

Another important activity of the HSSI is its monthly seminar at the Institute of Mathematics and Informatics. The aim of the Seminar is to bring together high school students, teachers and scientists to present and discuss problems of common interest.

8.2. IMI Master and PhD activities

Annex 8 provides detailed information about the number of PhD students during 2004-2008. At present IMI offers the following advantages to its PhD students:

- Highly qualified scientists with good international contacts in practically all basic fields of mathematics and computer science;
- Opportunities for research and innovation supported by funds from EU, Bulgarian National Science Fund or by bilateral contracts with foreign universities;

- Opportunities for participation in national and international scientific forums also using funding provided by Bulgarian Academy of Sciences for young researchers;
- Opportunities for in-time publishing in IMI journals. IMI journals with international Editorial boards *SERDICA J. of Computing* and *SERDICA J. of Mathematics* are worldwide recognized.
- Friendly infrastructure – working place, high-speed free Internet, the richest mathematical library in South-East Europe, accessibility to scientific data bases – SCOPUS, etc.

It has to be mentioned that with the change of the university educational structure in Bulgaria to three levels (bachelor – master – PhD) many of the best students with Bachelor degree in mathematics prefer to continue their study abroad before having serious scientific contacts. This is a serious obstacle to attracting young researchers as PhD students.

In recent years some of PhD students worked as mathematicians (instructors) at IMI. Later they continued their education in the USA, Germany, France, etc. Fortunately, IMI keeps and develops the scientific contacts with most of its ex-students, including joint publications, seminar talks, participation in conferences, etc.

IMI is legally forbidden to have a Master program. The way out of this situation is joint Master educational activity with accredited universities. IMI has such programs with:

- Veliko Tarnovo University 50 students;
- D.A.Tsenov Academy of Economics, Svishtov 500 students;
- New Bulgarian University 5 students.

9. Services of particular national importance connected to:

A) operation of national, state and governmental institutions and supporting their functioning;

- Ministry of Defense of Republic of Bulgaria;
- Ministry of State Policy for Disasters and Accidents;
- Comprehensive expert support of the activities of the Antarctic Place-names Commission at the Ministry of Foreign Affairs of Bulgaria, including development of relevant methodology and standards, data collection and processing, drafting of decisions, mapping, international cooperation.
- Contribution to the inter-institutional council at the Ministry of Culture, aimed at creating a national digitization strategy;
- Support to the National Commission for UNESCO (an IMI scientist is a member of the Executive Board and the national coordinator of the Memory of the World programme);
- Support to the State Agency for Information Technology and Communications in monitoring digitisation activities in Bulgaria (in the frames of Numeric project)

Beside the participation in educational activities at MSc and PhD level, department members served as trainers in high-level professional training programmes organised by UNESCO, the British Council and the Italian Ministry of Culture. IMI staff members also contributed to long-term training programmes aimed at the re-qualification of the unemployed in Bulgaria.

B) different regional initiatives and infrastructures in the country.

- IMI is an initiator of the creation within the Academy of an inter-institutional infrastructure, related to the preservation of the national cultural and historical heritage;

- IMI is a driving force of the establishment of a national network of institutions involved in the digitization of cultural and scientific heritage;
- IMI has branches in Plovdiv, Veliko Tarnovo and Blagoevgrad participating through them in the regional activities of BAS.

10. Overall academic achievements or reputation of the research unit illustrated by all data for the period 2004-2008 with special stress on:

A) up to five most important scientific achievements;

- Pencho Petrushev, Kamen Ivanov. The theory of weighted Triebel-Lizorkin and Besov spaces on multi-dimensional intervals, spheres balls, simplexes, octants and their products is developed in terms of rapidly decaying frames (needlets). A distinctive future of the method is the space decomposition to near-exponential or almost-exponential decreasing needlet elements. A number of applications to other fields as non-linear approximations with band-limited functions, solution of elliptic PDE's and mathematical statistics are made. The theory is implemented in developing very fast numerical methods for evaluation of geospatial quantities with high precision.
- Ognyan Kounchev: Reconsideration and solution of the Multidimensional Moment Problem – found a new Ansatz for it. This provides an essential advance in this longstanding open problem which is related to different areas, as multidimensional orthogonality, cubature formulas, Spectral theory, etc. which have been attacked by such famous mathematicians as Hermite, F. and M. Riesz, Radon, S. Sobolev, etc. Publications on this topic: Kounchev, O., Render, H., Reconsideration of the multivariate moment problem and a new method for approximating multivariate integrals, arXiv:math/0509380; Kounchev, O., Render, H., Pseudopositive multivariate moment problem. *C. R. Acad. Bulgare Sci.* 58 (2005), *no. 11,* 1243–1246. Kounchev, O., Render, H., New PDE method for approximating multivariate integrals. *C. R. Acad. Bulgare Sci.* 58 (2005), *no. 12,* 1373–1378. Kounchev, Ognyan; Render, Hermann, A moment problem for pseudo-positive definite functionals, to appear in *Arkiv f. Matematik*, arXiv:0802.0023. Ognyan Kounchev also developed the theory of Bernstein type operators for exponential polynomials and more general Chebyshev systems. This is an essential progress in a topic where many attempts have been made, to mention the attempts of other famous mathematicians as A. Gelfond (1950), Hirshmann and Widder (1949), etc. Our results are aimed at the development of CAGD in the area of surface design. Publications: J.M. Aldaz, O. Kounchev, H. Render, Bernstein operators for exponential polynomials, *Constructive Approximation*, doi: 10.1007/s00365-008-9010-6; arXiv:0805.1618 ; Aldaz, J., Kounchev, Ognyan; Render, Hermann, Shape Preserving Properties of Generalized Bernstein Operators on Extended Chebyshev Spaces, arXiv:0805.1614, submitted; Aldaz, J., Kounchev, Ognyan; Render, Hermann, Bernstein Operators for Extended Chebyshev Systems, arXiv:0805.1612
- Julian P. Revalski: New variational principles have been developed and investigated: one of them is in the setting of convex and quadratic data functions in finite dimensions and the second one is in the general case of a reflexive Banach space by perturbing Lipschitz functions by parabolas. Related to the study of variational principles a new topological tool to obtain such principles was presented by involving sequences of set-valued mappings associated with the corresponding optimization problems. A second direction of research was the study of regularization procedures for monotone operators. More precisely, there has been established a kind of equivalence between the enlargements of sums of maximal monotone operators and a

corresponding regularization procedure for the pre-composition of a maximal monotone operator with a linear and continuous operator.

- The class of Kähler manifolds of quasi-constant holomorphic sectional curvatures is investigated and Bochner – Kähler manifolds of quasi-constant holomorphic sectional curvatures are classified. Kähler manifolds admitting flat complex conformal connection are classified. It is proved that Weingarten surfaces admit canonical parameters and a fundamental theorem for Weingarten surfaces is proved. A Bonnet-type theorem for strongly regular minimal surfaces of general type in terms of their invariants is proved. Canonical parameters are introduced on any strongly regular minimal surfaces of general type. It is proved that any such a surface is determined up to a motion by two invariant functions satisfying a system of two natural partial differential equations. The topological invariant collectionwise normal is characterized in terms of single-valued continuous selections of lower semi-continuous convex-bounded-closed-valued maps in Hilbert spaces. As an application a conjecture of Choban-Gutev-Nedev is proved. A result of Christensen, characterizing completeness in separable metric spaces, is modified, which admits a generalization in the non-separable case. Topological invariants of type para-compactness are characterized in terms of selections of multi-valued maps.
- Tatiana Gateva-Ivanova, Vesselin Drensky: Discovery of the so called *binomial skew polynomial rings*, which both provide a new class of Arin-Shelter regular rings with arbitrary global dimension, and define a special class solutions to the Yang-Baxter equation.(YBE), viz. *square-free solutions of YBE*.. Furthermore, every square-free solution is proven to be derived from a binomial skew polynomial ring; Characteristic of the quantum spaces of multi-permutation solutions of YBE of level 2 and construction of infinite sequences of retractable solutions of arbitrarily high multi-permutation level.

  After a systematic study of automorphisms of polynomial and free associative algebras, a new technique is developed for study of wild automorphisms. A construction of new automorphisms with prescribed properties is done. A new technique was proposed for computational and quantitative investigation in invariant theory of matrices, algebras with polynomial identities and combinatorics of symmetric functions.

B) up to five most important applied results and/or realizations;

- Development of a draft Cyrillic keyboard (both computer and mobile phone) standard that is already incorporated in the Windows Vista Microsoft operating system, and presently in the process of final elaboration and adoption as a Bulgarian state standard. Further realization of the Streamlined System for the Romanization of Bulgarian originally developed in the Department of Logic in 1995 and introduced in the Bulgarian personal identity documents in 1999-2000, which in the period 2004-2008 was adopted by the Bulgarian Government for use in road signs, street names, official information systems, databases, local authorities' websites etc.
- Creation of a Database with information about all scientists in Bulgaria who obtained scientific degrees and scientific titles after 1972 – together with the IMI Section of Software Technologies. Creation of the Information System of the Higher Attestation Commission to the Council of Ministers, Republic of Bulgaria (with data range covering the period after 2000) – together with the IMI Section of Software Technologies.
- A digitization line has been created and is working, following the European digitization standards (the first working line on national level); as a result currently

(2009) the digitized data is in preparation for inclusion in the digital repository for scientific literature Driver, as well as in Europeana. IMI is an initiator of: the creation within the Academy of an inter - institutional infrastructure, related to the preservation of the national cultural and historical heritage; the establishment of a national network of institutions involved in the digitization of cultural and scientific heritage. An expert group has been created in 2008, attached to Bulgarian Ministry of Culture.

- Valentin Iliev conducted a systematic study on the isomerism in organic chemistry creating mathematical models using tools from the group theory.
- Vesselin Drensky developed methods for the fast evaluation of symmetric functions and hypergeometric functions on matrix arguments with concrete computer realization and applications to multivariate statistics with orientation ranging from genomics to wireless communications, finance, target classification, etc.

C) total number of citations appeared in the period 2004-2008.

Over 6000 citations appeared in the period 2004-2008.

Critical assessment of all data.

A straightforward estimation of the above data leads to the conclusion that IMI is a complex institution with vital role for the development of Bulgarian society especially in the frame of reference of EU research priorities. Information concerning the critical assessments is presented above in sections 3, 6.3 and 8 and briefly the IMI objectives can be summarized by:

- high level fundamental and applied research in the frame of international cooperation;
- high level educational job on all steps – from secondary school till PhD students;
- National expertise institution in the field of Mathematics and Information Technologies.

II. Strategy and policies for future development

1. Envisaged development of research subjects and plans in short and long term including the perspectives for the future strengthening of interdisciplinary co-operations within Academy, at national level and internationally (in Europe and worldwide).

IMI continues its research work in all important branches of Mathematics and Informatics. Here are some examples of the main strategic fields:

- Algebraic recursion theory, non-classical logics, formal methods and theoretical computer science in general, logic programming, linguistics, and related interdisciplinary applications.
- The project "Astrophysics: processing and analysis of digitized astronomical data and web-based application", grant No. TK01/0095, funded by the National Fund for Scientific Research, is an interdisciplinary project among several institutes at BAS, with wide international participation – including Germany, France, USA, the Czech Republic, and others. It is a groundbreaking project in the area of application of Information and Communication Technologies to Astronomy and Astrophysics, aimed at preserving and web-presentation of the cultural heritage in the area which has wide area of applications. It is a cornerstone of the Virtual Observatory worldwide project, and Bulgaria has the leading edge in it.

- "Development of applications of new Operational Research and Optimal Control methods, and ICT methods to Civil Security": these projects will be in the framework of international cooperation of FP7, in collaboration with the National Civil Protection Agency and the National Agency for Nuclear Regulation.
- Further theoretical and applied research in Artificial Intelligence department is focused in following areas:
    - Knowledge Based Information Systems;
    - Pattern Recognition and Image processing;
    - Computer Graphics;
    - Computer Methods in Algebra;
    - Information and Communication Technology Applications in Modern Society.
    - IMI intends to intensify its educational activities in mathematics, informatics and linguistics as they were described in Section 8 (Annex 9 provides detailed information) on all levels – from High school to PhD students.

IMI has always worked not only in pure mathematics but also in its applications, for example in Information Theory (Error Correcting Codes), Numerical Mathematics (Dochev's method for simultaneous computing of zeroes of polynomials), Chemistry, Statistics, etc. For example, some of the investigations in this direction have been performed jointly with mathematicians from Italy, USA, Canada. IMI is planning to extend its cooperation, both in short and long term.

2. Actual personnel policy as basis for personal development policy including both plans for improving PhD training schemes and PhD personnel recruitment.

IMI personal development policy envisages the obtaining of DSc/PhD degrees by present members and the recruitment of PhD students and potential new IMI members. Employing young researchers and people on project basis is a perspective way to attract young talented researchers providing necessary conditions for their scientific development. This will include their training in the new areas of science such as Astroinformatics, Operational Research methods in Civil Security, etc.

3. Financial situation. Sources of finance: budget subsidy, additional sources- public, private, international; cash flow and acquired or donated material assets (indirect, in kind and other type of individual support as for ex. through the international bilateral cooperation should not be considered); strategy and policy for attracting more funding.

IMI has a strategy for attracting more funding through (in addition to budget subsidy):

- Active participation in different European programs;
- Active participation in the Calls of Bulgarian National Science Fund;
- Active participation in all levels of educational process – PhD and Master degree, Postdoctoral education, specialized courses in Mathematics and Computer Science, etc.

Table 4 gives the amount of money and its sources for IMI:

Year	Budget subsidy	Additional sources	EC and other International RTD contracts
2004	1 676 280 BGN	200 978 BGN	727 747 BGN
2005	1 700 400 BGN	262 698 BGN	623 522 BGN
2006	1 731 000 BGN	340 473BGN	576 804 BGN
2007	1 859 600 BGN	341 234 BGN	535 186 BGN
2008	2 545 800 BGN	368 616 BGN	400 666 BGN

Table 5

The **Additional sources** column in Table 5 includes financial support for research and equipment, grants with the Bulgarian National Science Fund and other RTD contracts as shown in Table 6.

Income source	2004	2005	2006	2007	2008
Rents of lecture halls	54751	43771	41239	45010	71073
Contracts (Bulgarian National Science Fund, Ministries, etc.)	7870	600	20250	42600	181596
Donations	77973	164000	22840	30921	0
RTD contracts with firms and universities	26539	14478	209271	182234	63137
PhD fees	1085	495	7422	1090	2297
Services	23528	30830	27105	31321	37987
Educational courses	2400	900	7129	0	3692
Subscription to IMI journals	6832	7624	5217	8058	8834
Total:	**200978**	**262698**	**340473**	**341234**	**368616**

Table 6. **Additional sources**

IMI staff members maintain good contacts and collaborate with mathematicians from well renowned scientific centers abroad, participate in national and foreign research projects, regularly obtain complete financial support from organizers of conferences abroad.

The following two examples prove the importance of Bulgarian National Science Fund for research activities of IMI:

- Project "Geometry of Banach spaces and Variational Analysis" funded by the National Fund: Period: 2009-2011. Budget: 145 000 BGN. Coordinator Prof. J.P. Revalski.
- Project "Astrophysics: processing and analysis of digitized astronomical data and web-based application", grant No. TK01/0095 funded by the National Science Fund: Period: 2009-2011. Budget: 500,000 BGN. Coordinator Prof. O. Kounchev.

4. Critical assessment of the current structure of the research unit with the view of its future development.

The current IMI structure shares the trend of ageing which has been plaguing the Bulgarian Academy of Sciences and Bulgarian academic community in general in the last two decades. The neglect of research and education during the country's painful reforms resulted in the emigration of many established and promising young researchers. In the mathematical community we lost dozens of prominent mathematicians who went to West Europe and USA. This emigration weakened

Bulgarian mathematics and a generation of prospective mathematicians did not materialize through the loss of students to foreign universities. It is difficult to IMI to identify talented junior staff from among the university graduates since 2000. While the financial situation seems to be improving, the economic development of the country in the recent years seems to be light on internationally leading technology. So far, investment is heavier on acquisitions, services and property development, and is not creating enough demand for scientific innovation, or support for fundamental research.

Briefly, the main problem is the attracting of young people to conduct research in mathematics, since young mathematicians and computer scientists prefer to find a position abroad or in the industry.

5. Innovation potential of the research unit – patents, advanced technologies, prototypes, applications, perspectives for strengthening the relations with industry and/or other sectors important for the economic development of the country. Critical assessment and future plans.

1. Patent № BG 65549 Bulletin of the Patent Agency of Republic Bulgaria, book 11 (2008), "Method of Energy Production and Radioactive Waste Treatment"

2. For registration of a model: 001430 BG 22/09/2008 in the Patent Agency of Republic of Bulgaria "Model of Transport of Magnetically Confined Plasma".

3. For registration of a method: 110066 BG 22/04/2008 in the Patent Agency of Republic of Bulgaria "Model Independent Control of Plasma".

6. Short view of the perspectives of the unit emphasizing its position within the research structure and the strategic views of BAS. Suggestions of what has to be done to meet the expectations of the society for the future role of the Academy.

IMI is a key research institute of the Academy and its activities correspond to the needs:

- of highly qualified researchers in Mathematics and Computer science;
- for implementation of mathematical ideas using the advantages provided by information technologies. Practically, there is no sector of science, society, economy, where mathematical tools and methods wouldn't play a significant role;
- for pre-service and in-service qualification of mathematicians and computer scientists in the country;
- of the Bulgarian Academy of Sciences scientific potential which is necessary for participation of full value in the building of the European Research Area.

The main step to take according to IMI is to increase the role of the scientists in important decisions concerning basic problems of national importance where mathematical methods could be effectively applied. To achieve this goal it is of vital importance to raise the awareness of the general public of the nature and the significance of research in the areas of mathematics, informatics and information technologies.

The statements of the self-evaluation report should be supported by evidence that is contained in the annual reports of the research units. This evidence has to be presented in accordance with the 12 annexes to this report or added in the tables related to annexes 1, 6, 7, 8, and 11.

SCIENTIFIC PROJECTS IN THE 2004-2008

INSTITUTE OF MATHEMATICS AND INFORMATICS

Number	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR Partner organization or coordinator, number of participants from the unit and from other BAS units, number of PhD students	FUNDING provided by /institution, reg. № or code of the project /contract, etc./	RECEIVED FUNDING BY THE UNIT in BGN, or EUR, or USD	Relevance to industry and the economy /area of application/
1.	Investigating software objects and processes and their application to the users' implementation of software 2004-2008	IMI - SE Department, 12	BAS		
2.	Modeling of educational processes and management of e-learning projects 2006-2007	University of Plovdiv, 2 participants from the unit	NSF № ВУ МИ-104	1000 BGN	
3.	Technological and didactical problems of e-learning 2006-2007	Southwest University Blagoevgrad,1 participant from the unit	NSF		
4.	ELOST: "E-Government for Low Status Group" - Sixth European Framework Program 2006-2008	ICTAF Israel, 3 participants form IMI, 2 of them from SE Dept.	EU – SSA 027287	59200 EUR	
5.	Up2UML, Leonardo Da Vinci Program 2005-2007	Fraunhofer Institut, 1 participant from SE Dept			
6.	Socrates-Erasmus 114-CP-1-BG-Erasmus-TN "European Thematic Network for Doctoral Education in Computing" 2005-2007	Technical University Russe, 2 participants from SE Dept	Socrates-Erasmus 114-CP-1-BG-Erasmus-TN ETN DEC	6000 EUR	
7.	Development of Information Systems by means of advanced technologies 2003-2005	Joint project with Tel Aviv University 4 participants from SE Dept	BAS, Israeli Academy of Sciences		
8.	Evaluation and Selection of Complex Software Systems 2006-2008	Joint project with Tel Aviv University 4 participants from SE Dept	BAS, Israeli Academy of Sciences		

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9.	Software quality assurance iR2	Joint project with MTA SZTAKI, Hungarian Academy of Sciences 3 participants from SE Dept.	BAS, Hungarian Academy of Sciences		
10.	Differential Equations and Applications		The budget subsidy of BAS		
11.	Algebraic Coding Theory and Computer Algebra	Acad. Prof. DSc. St.Dodunekov – 13 participants	budget subsidy of BAS		
12.	Modernizing of the archives of the authentic folklore materials (with the Institute of Folklore)	Acad. Prof. DSc. St.Dodunekov – 5 participants (with the Institute of Folklore)	budget subsidy of BAS		
13.	Simulation of ELM-produced particles and energy pulses and their effect on the SOL	L. Popova	FU05-CT- 0002-00091	1200 BGN	
14.	Algebraic and Combinatorial Methods in the Coding Theory and Informatics	Acad. Prof. DSc. St. Dodunekov, 13 participants	MM-1405 / 2004 Bulgarian National Science Fund		
15.	Security problems in e-voting and large-scale distriduted computing	N.L.Manev – 7 part.	I-1301/2003	9300 BGN	
16.	Self-dual Codes and Groups of Automorphisms	I. Bouyukliev	MM–1304/2003 Bulgarian National Science Fund	8000 BGN	
17.	Development, annotation and protection of a digital archive “Bulgarian National Heritage”	Assoc. Prof. Dr. G. Bogdanova	IO-03-02 / 2006	6650 BGN	
18.	Knowledge Technology for creation of Digital Presentation and Significant Repositories of Folklore Heritage.	Assoc. Prof. Dr. G. Bogdanova – 18 уч.	IO-03/2006	4750 BGN	

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19.	Scientific project BELL: "Research and Identification of the Unique Bells of as a part of the Historic and Culture Heritage of Bulgaria and Development of Audio and Video Archive with Advanced Technologies"	Assist. Prof., PhD G. Dimkov	KIN 1009/2006 2006-2009	151 BGN	
20.	"Development of experimental digital archive of authentic folklore materials"	Acad. Prof. DSc. St.Dodunekov	АРСИКТ–ИД-13/2005 2006-2007	1800 BGN	
21.	No FU05-CT-20002-00091 : "PIC Simulation of ELM-produced particles and energy pulses and their effect on the SOL"	Prof. DrSci L. Popova	European Commission	17000 EUR	
22.	Erasmus-Socrates cooperation agreement with the University of Perugia-Italy	P.Boyvalenkov	European Commission		
23.	Erasmus-Socrates cooperation agreement with the University of Leuven-Belgium.	N.L.Manev	European Commission		
24.	Algebraic and Combinatorial Coding Theory,	Russia	BAS 13 participants		
25.	Discrete Mathematics, Coding Theory and Database.	Hungary	BAS - 13 participants		
26.	Combined Algorithmic and Theoretical study of Combinatorial Structures	Belgium	BAS - 13 participants		
27.	Optimization Problems in Discrete Mathematics and Coding Theory	Israel	BAS - 2 participants		
28.	Center of Excellence of Applications of Mathematics		DAAD	65631 BGN	

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29.	Joint research and education activity with the University of Electro-Communication – Tokyo				
30.	Joint research and education activity with the University of Linkoeping				
31.	Joint research and education activity with IIPT				
32.	Mathematical modeling in the biology	Coordinator: S. Markov 7 persons from IMI	the budget subsidy of BAS		ecology
33.	Computer simulation and innovative model-based study of bioprocesses	Coordinator: N. Dimitrova 5 persons from IMI 3 persons from FMI–SU	DO 02 – 359/2008 Bulgarian National Science Fund		Ecology,Biotechno-logy
34.	Web based computations and visualization	Coordinator: E.Popova, 4 persons from IMI, 3 persons PhD students	NSF, NNP-IO-03/2003		Knowledge society
35.	Modeling of Coupled Hydromechanical Problems for Porous Media with Uncertainties and its Application to Environmental Geomechanics	Partner organiz.: Inst. Mechanics, BAS, 1 person from IMI, 2 persons from other BAS units	MM-1301/2003 Bulgarian National Science Fund		Mechanical engineering
36.	Inwestigations on the influence of polluted atmosphere industrial dust particles at the formation and morphology of ice crystals	1 person form IMI	F-1008/2001		
37.	Modelling and control of biotechnological processes using mathematical methods for processing uncertain information	Coordinator: M. Krastanov 5 persons from IMI	MM1104/01 Bulgarian National Science Fund	5110 BGN	Ecology, Biotechno-logy
38.	"Criptography using chaotic oscilators"	Coordinator: Greece 2 persons from IMI	NATO CLG 983334		

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39.	Coupled Hydro-Mechanical Models with Uncertainties and Application to Environmental Problems	Coordinator: T. Schanz 1 person from IMI 2 persons from other BAS units	NATO, CLG 979541		Mechanical engineering
40.	Comenius 2.1 Project Math2Earth	EU			Education
41.	Comenius 2.1 Project MEETING IN MATHEMATICS	EU			Education
42.	Interval Methods and Software Tools for Parametric Linear Systems	Partner organiz. Univ. Wuppertal, Germany 3 persons from IMI	DFG, Univ.Wuppertal, IMI-BAS		
43.	Establishing CSE in Bulgaria and Macedonia	Coordinator: ETH Zurich, 9 persons from IMI 6 persons from other BAS units 1 person PhD student	Swiss NSF SCOPES 7 IP 65642		High-school education
44.	Scientific computations	Coordinator: University Paris 6 1 person from IMI	BAS- University Paris 6, Annex 4		Computer science
45.	Numerical analysis of nonlinear physics processes: mathematical models, algorithms, numerical experiment	Assoc.Prof. N. Kolkovska, 8 participants from IMI	budget subsidy of BAS		
46.	Efficient algorithms for solving of very large-scale problems and their application on modern computer system	Assoc. Prof. I. Lirkov (IPP, BAS), 1 participant from IMI	NSF, I - 1402/2004		
47.	Adaptive and Hierarchical Algorithms in Finite Element Method	Prof. A. Andreev (TU-Gabrovo), 1 participant from IMI	NSF, NBU-MI-202/06		
48.	Bulgarian Information Society Center of Excellence in 21 Century, BIS21	Prof. I. Dimov (IPP, BAS), 1 participant from IMI	EC FP 5, 2000-2004, INCO 2 ICA1-1999-75010		
49.	Mathematical simulation of quantum systems on multiprocessor clusters	Prof. M. Kaschiev, 3 participants from IMI	JINR, Dubna, Russia, 09-6-1060-2000/2004		
50.	Bulgarian IST Centre of Competence in 21 Century, BIS21++	Acad. K. Boyanov (IPP-BAS), 1 participant from IMI	EC FP 6, 2005-2007, INCO-CT-2005-016639		

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51.	Mathematical simulation of atomic and molecular systems in external fields on multiprocessor clusters	Prof. M. Kaschiev (till 2007), Assoc.Prof. N. Kolkovska (from 2008), 4 participants from IMI	JINR, Dubna, Russia, 05-6-1060-2005/2010		
52.	Robust scientific computing methods and high performance algorithms	Prof. S. Margenov (IPP, BAS), 1 participant from IMI	Cooperation with Johann Radon Inst.Comp. Appl. Math. (RICAM), Austrian Acad.Sci., 2004-2007		
53.	Reliable Modelling and Large Scale Scientific Computing in Geonics	Prof. S. Margenov (IPP, BAS), 1 participant from IMI	Academy's bilateral agreement with Czech Acad. Sci., 2005-2007		
54.	Parallel and distributed computing practices	Assoc. Prof. I. Lirkov (IPP, BAS), 1 participant from IMI	Academy's bilateral agreement with Polish Acad. Sci., 2006-2008		
55.	Efficient Monte Carlo Methods in Photorealistic Image Synthesis	Dr. A. Penzov (IPP, BAS), 1 participant from IMI	Academy's bilateral agreement with Hungarian Acad. Sci., 2005-2007		
56.	Microstructure and multiscale modeling in bio- and geo-environment	Prof. S. Margenov (IPP, BAS), 1 participant from IMI	Academy's bilateral agreement with Czech Acad. Sci., 2008-2010		
57.	Theory and Applications in Artificial Intelligence.	Alexander Gerov, Ph.D. Assoc. Professor All members of the AI Department	Budget subsidy of BAS Contract with Bulgarian Academy of Scienses, 2001 – continues		
58.	Computer Algebra Programming Tools Oriented to Education in Mathematics.	Margarita Spiridonova, Asist. Professor 8 participants from the AI Department	Contract No. 1002 with Ministry of Education and Scienses. 2001 – 2004		
59.	Computer Tools in Assistance of Investigations in Linguistics.	2 participants from the AI Department	Contract No. MI-1511 with National Scientific Fund, 2005 – continues.		
60.	Dynamic Ontologies in the Multiagent Information and Manegement Systems	1 participant from the AI Department	Contract No. VU-TN-204/2006. 2006 – cotinues.		

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61.	JRP on Modern Algebra.	Coordinator: Daniela Nikolova, Ph.D. Assoc. Professor	Contract between the Bulgarian Academy of Sciences, and Bar Ilan University, Tel Aviv, and Netanya Academic College, Netanya, Israel, 2003 - continues.		
62.	GUIDE: Government User Identity for Europe - Creating a European standard for interoperable and secure Identity Management Architecture for eGovernment	1 participant from the AI Department	FP6 IST 507498. 2004 – continues		
63.	PRIME Providing Real Integration in Multi-disciplinary Environments	1 participant from the AI Department	FP6 IST 016542. 2006 – 2008		
64.	TENCompetence - Building the European Network For Lifelong Competence Development	2 participants from the AI Department	FP6 IST-2005-027087. 2005 - continues		
65.	SISTER: Strengthening the IST Research Capacity of Sofia University,	1 participant from the AI Department	FP7-REGPOT-2007-1.		
66.	Share.TEC - SHAring digital REsources in the Teaching Education Community	1 participant from the AI Department	FP7 eContentplus programme		
67.	Mathematical Support of Experimental and Theoretical Studies in Joint Institute for Nuclear Research in Dubna, Russia.	1 participant from the AI Department	Joint Institute for Nuclear Research in Dubna, Russia. № 05-6-1060-2005/2010		
68.	General topology	Stoyan Nedev, Dr. Sci. Prof.	budget subsidy of BAS		
69.	Geometry of differential manifolds	Georgi Ganchev, Dr. Assoc. Prof.	budget subsidy of BAS		
70.	Topological structures and their invariants	Stoyan Nedev, Dr. Sci. Prof.	National Science Fund	2000 BGN	
71.	Interaction between general topology and functional analysis	Stoyan Nedev, Dr. Sci. Prof.	BAS – Academy of Sciences of the Czech Republic		

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72.	FunctionalSpaces and Operators in them	Prof. Dsc. K. Kirchev	State Budget		
73.	Nonlinear Equations and Specral Theory of Operators	Prof. Dsc. K. Kirchev	Ministry of Education and Science	7500 BGN	
74.	WEB-LABS	1 participant (Sci coordinator)			
75.	IDWBL	1 participant (Sci advisor)	Minerva		
76.	Knowledge Transfer for Digitisation of Cultural and Scientific Heritage in Bulgaria	1 participant (expert)	FP7		
77.	I*Teach	1 participant (expert)	Leonardo daVinci program		
78.	Dalest	2 participants Coordinator BG participation	Minerva		
79.	Temit	3 prtcpts 1 member of Central team	Tempus Cd jep-41110-2006	Approx. 9000 EUR	
80.	Math2 Earth	1 prtcpt (expert)	Comenius		
81.	Digmap	2 prtcpt (expert)	Ecp-2005-cult-038042		
82.	Workshops and Summer School in Math&Informatics	2 prtcpts (chair&expert)	Daryn (Kz)	Approx. 5000 EUR	
83.	Research Science Institute	1 prtcpt (Sci advisor)	MIT, USA		
84.	E-learning	1 prtcpt (expert)	MinEdu of FYROM		
85.	Algorithms, Methods and Tools for Natural Language Processing	Mathematical Linguistics Dept. IMI –BAS, Radoslav Pavlov, 9	budget subsidy		
86.	Machine-aided knowledge discovery	IMI-BAS, Vladimir Pericliev; 1	budget subsidy		
87.	Kompjutârni sredstva v pomosht na lingvista	IMI-BAS, Vladimir Pericliev; 2 from BAS	Ministry of Education and Sciences; MI-1511/2005	7500 BGN	
88.	Knowledge Technologies for Development of Digital Resources and Virtual Presentation of Collections of the Bulgarian Folklore Heritage	Institute for Folklore-BAS, 8; IMI-BAS, 7; Veliko Tarnovo University, 4.	Ministry of Education and Sciences; IO-03/06 Contract 01407/16.06.2006		

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89.	Formation of highly qualified researchers in information technologies for knowledge processing and management	IIT-BAS IMI-BAS – partner, From IMI-BAS – 6, incl. 4 PhD students	Ministry of Education and Sciences; Contract num. BG051PO001/07		
90.	MONDILEX Conceptual Modelling of Networking of Centres for High-Quality Research in Slavic Lexicography and Their Digital Resources	With Poland, Slovak Republic, Slovenia, Russian Federation, Ukraine; Project coordinator Ludmila Dimitrova; IMI-BAS	7th FP of the EC, Grant Agreeement No 211938	100379.75BGN	
91.	A reconstruction of prehistoric Eurasian mythological complexes and their most ancient distribution in connection with genetic data	With Estonia, France, Russian Federation, Tadjikistan; Konstantin Rangochev – coordinator, IMI-BAS	6th FP of EC – INTAS,Ref. Nr. 05-1000008-7922	9734 BGN	
92.	Teaching, Research, Innovation in Computing Education	IMI-BAS - partner Coordinator for IMI Radoslav Pavlov	ERASMUS, project number - 142399-LLP-1-2008-1-BG-ERASMUS-ENW		
93.	LOGOS: Knowledge-on-Demand for Ubiquitous Learning	With Finland, France, Greece, Hungary, Italy, Slovakia, UK; Coordinator for IMI Radoslav Pavlov	6thFP of EC, IST-P-027451	191630 BGN	
94.	HUBUSKA: Networking Centres of High Quality Research on Knowledge Technologies and Applications	With Austria, Hungary, Slovakia; Coordinator for IMI Radoslav Pavlov	6thFP of EC INCO-CT-2003-003401	80340 BGN	
95.	CHIRON: Referring Innovative Technologies and Solutions for Ubiquitous Learning	With France, Greece, Hungary, Italy, Sweden, UK; Coordinator for IMI Radoslav Pavlov	Leonardo da Vinci FR/04/C/F/RF-81103	67730 BGN	
96.	ELSNET: European Network of Excellence in Language and Speech	Pan-European Network; Coordinator for Bulgaria Radoslav Pavlov			

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97.	Mathematical Problems of Informatics	Hungarian Academy of Sciences, Computer and Automation Research Institute	Academy's bilateral agreement		
98.	Development of Software Systems for Multimedia and Language Technologies	Hungarian Academy of Sciences, Computer and Automation Research Institute	Academy's bilateral agreement		
99.	Semantics and Contrastive Linguistics with a Focus on a Bilingual Electronic Dictionary	Polish Academy of Sciences, Institute of Slavic Studies	Academy's bilateral agreement		
100.	Electronic Corpora – Contrastive Study with Focus on Design of Bulgarian-Slovak Digital Language Resources	Slovak Academy of Sciences, Ľudovít Štúr Institute of Linguistics	Academy's bilateral agreement		
101.	Research of Models and Software Tools for Language Technologies	Institute for Information Transmission Problems, Russian Academy of Sciences	Academy's bilateral agreement		
102.	Research and Development in the Domain of Bulgarian–Ukrainian Electronic Language Resources	Ukrainian Linguo-Information Fund, National Academy of Sciences of Ukraine	Academy's bilateral agreement		
103.	Formal models for the automatization of information processes	Lyubomir Ivanov 5 participants	budget subsidy of BAS		
104.	Algorithmic Modeling of Information Processes	Lyubomir Ivanov 4 participants	NSF		
105.	Formal models for the automatization of information processes	Lyubomir Ivanov 5 participants	NSF	4500 BGN	
106.	Unified approach to problems related to the use of Cyrillic alphabet	Lyubomir Ivanov 2 participants	NSF		applications in Microsoft software
107.	Free topographic map "Bulgaria in Antarctica" for all Bulgarian schools	Lyubomir Ivanov 1 participant	Manfred Wörner Foundation		applications in school education

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108.	Students get ready for their future: Theoretical and practical preparation for business activities by means of a simulation game	Lyubomir Ivanov 1 participant	Ministry of Education and Science under the EU Operative program Human Resources Development		
109.	Reasoning about schedulability and quality of service in the Duration Calculus	Dimitar P. Guelev 2 participants	bilateral agreement with the Chinese Academy of Sciences, budget subsidy of BAS		
110.	Scientific Antarctic expedition Tangra 2004/05	Lyubomir Ivanov 1 participant	Manfred Wörner Foundation		
111.	Algebra and Algebraic Geometry	Cor.-member Vesselin Drensky 12 participants	Budget subsidy		
112.	Theoretical and Computer Investigations in Algebra and its Applications (awarded 1-st prize for grants in Mathematics)	Cor.-member Vesselin Drensky	Grant MM1106/2001 Theoretical and Computer Investigations in Algebra and its Applications	2004 – 6600 BGN 2005 – 7000 BGN	
113.	Algebra and Algebraic Geometry	Sr. research fellows II degree Atanas Iliev	Project MI1503/2003 Algebra and Algebraic Geometry	2006 – 7000 BGN 2006 – 7000 BGN 2007/8 – 6000 BGN	
114.	Combinatorial and Computer Algebra, Algebraic Geometry and Theory of Invariants	Cor.-member Vesselin Drensky 6 participants	Academic Exchange with Hungary		
115.	Algebraic Geometry, Algebra and Applications	Cor.-member Vesselin Drensky 6 participants	Academic Exchange with Romania		
116.	Well-posedness, stability and hardness of optimization problems	Prof. Julian Revalski, D.Sc.	Budget		

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117.	Study of biomedical data by the methods of multiresolution analysis. Applications of polyspline wavelets to immuno-computations and brain research	O. Kounchev; University of Thessaloniki; 5 from BAS	Joint research project within the Bilateral S&T Cooperation between the Hellenic Republic and the Republic of Bulgaria, with the Aristotle University of Thessaloniki,	1000 EUR	yes
118.	Operations Research Support to Force and Operations Planning in the New Security Environment	IPP - BAS; "G.S. Rakovski" Defense Staff College; NOA – Germany; TNO-FEL – the Netherlands; Co-Director for IMI – Tsvetomir Tsachev; Participants from IMI – 6 researchers from the Operations Research Department	NATO Science for Peace Programme; SST.EAP.SFPP 981149	24460 EUR for 2005-2007	Homeland Security, Information Technology
119.	EU 2006 – Terrorist Acts Consequences Management in South-East Europe	MSPDA – State Agency "Civil Protection" IPP - BAS; CNSDR - BAS; NOA – Germany; Coordinator for IMI – Tsvetomir Tsachev; Participants from IMI – 5 researchers from the OperatiResearch Department	European Commission Direction A, ENV A.5 – Civil Protection; OJ 2005 C 134; IMI-BAS takes part as subcontr/r of IPP-BAS	4000 BGN	Homeland Security, Information Technology
120.	Matheu: identification, motivation and support of mathematical talents in european schools	Gregory Makrides, Mathematical Society of Cyprus, 1 from BAS	SOKRATES PROGRAMME of EU COMENIUS 2.1 Action (Training of School		Education of talented students
121.	Centre of Excellence for Applications of Mathematics	Heiner Gonska; for IMI: Peter Kenderov; Univ. of Duisburg, Germany;	"Academic Recovery of Southeastern Europe" DAAD	13190 EUR	yes

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122.	Monotone Operators and Applications	Julian Revalski; 4; University of Halifax; University Paris VI; University of Limoges	NATO		
123.	Institutes partnership project "Theory of polysplines and applications"	Ognyan Kounchev; University of Duisburg-Essen	Humboldt Foundation, Bonn	8000 EUR	
124.	Applications of splines and polysplines to Yield Curve modelling (mathematical finance)	Ognyan Kounchev; 1 from IMI and 2 from Inst. Inf. Technologies	DFG project with University of Bonn, Institute of Applied Mathematics and Statistics, University of Duisburg-Essen, Max Planck Institute of Mathematics and its Applications - Leipzig, University of Bremen, University of Potsdam	3000 EUR	yes
125.	Dynamic Stochastic Optimization with Dominance Constraints and Risk Functionals	Darinka Dencheva; 1; Stevens Institute of Technology, Rutgers University – USA;	NSF, USA (Division Math Sci)		
126.	Risk-averse Stochastic Optimization	Darinka Dencheva; 1; Stevens Institute of Technology, USA;	NSF, USA (Division Manufacturing Innovations)		yes
127.	Variational Analysis and Applications	Julian Revalski; 4; Israel Acad. Sci.	BAS; IIC		
128.	Application of spline methods to Mathematical Finance	O. Kounchev; 1; University of Bonn, Germany	DFG-Germany; IIC		yes
129.	Subdivision methods	O. Kounchev; 2; University of Tel Aviv	IIC		
130.	Genericity and Porosity in Optimization and Nonlienar Analysis	Julian Revalski; A.I. Ioffe; 4; Israeli Academy of Sciences (Haifa)	BAS; IIC		
131.	Databases of digital images, compression and fast search	Ognyan Kounchev; 1; Serbian Academy of Sciences	BAS; IIC	4 weeks; 3 visits	yes

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132.	Polyharmonic subdivision schemes and applications to wavelet analysis	Ognyan Kounchev; 1; Hebrew Academy of Sciences			
133.	Stochastic Methods for Analyzing and Risk Assessment	Prof. E. Pancheva, 8 participants from the department, including 1 PhD student	Budget subsidy of BAS		Finance, Banking and Insurance business
134.	Limit Theorems for Functionals of Branching and Regenerative Processes. Stochastic Research and Application.	Prof.N. Yanev, 7 participants from the department, including 1 PhD student	Budget subsidy of BAS		
135.	Structures of Probability Measures, Asymptotic Performances and Limit Theorems	Prof. L. Mutafchiev and E. Pancheva, 6 participants from the department, including 1 PhD student	Budget subsidy of BAS		
136.	Stochastic Processes and recovery models, regeneration and branching, statistical inference and application, evolutionarily models for populations.	Prof.N. Yanev 3 participants from the department	MM-1101/01 National Science Fund		Biology
137.	Stochastic Methods for Analyzing and Risk Assessment	Prof. E. Pancheva 9 participants, 1 from IMI, 2 from IMH , 6 out of BAS	MM-1103/01 National Science Fund	2910 BGN	Finance, Banking
138.	Prototypes of Standardized Achievement tests in Bulgarian Language	Borislav Georgiev, 1partiipant from the department	OXH 1103/01 National Science Fund		
139.	Stochastic Models and Statistical Inference	Assoc. Prof. M. Bojkova, 4 from the department, 7 participants out of BAS, including 1PhD student	MES, NSF № ВУ-МИ-105/2005		
140.	Knowledge Transfer for Digitalization of Cultural and Scientific Heritage in Bulgaria		MTKD 509754 National Science Fund		

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141.	Study of Smart Antenna Arrays for the Wireless Communication Networks	1participant from the departmen	Project of the Bulgarian-French Programme for joint scientific researches - PAI "RILA" Project No.07/2005) 2005.		
142.	Stochastic models of multiplication and summation	Prof. N. Yanev	Academy's bilateral agreement, Romania		
143.	Probability Theory and Mathematical Statistics, Random Processes. Applications in Biology, Finance, IT and Industrial Technologies.	Prof. N. Yanev	Academy's bilateral agreement, Russia		Biology, Finance and Industry
144.	Mathematical Models in Communication Technologies iR5	Prof. Blagovest Shishkov, DSc: IMI-BAS-6, , Sofia University-2.	IMI-BAS		Yes, where Mathematical Models in Communication are used
145.	Information Modelling iR5	Assoss. Prof. S. Poryazov, PhD Participants: IMI-BAS-6, Institute for Parallel Processing (IPP)-BAS-1, CENTRE OF BIOMEDICAL ENGINEERING (CBME) -BAS -1, Institut of Electronics-1, Sofia University-2, PhD Student-2	IMI-BAS		Yes, where Information Models in Industry and Telecommunication are used
146.	Prototypes of Standartized Acheevement Tests in Bulgarian Language as a Native Language in Secondary Education	Borislav Georgiev– Institut for Bulgarian Language (IBL)-BAS.Participants: IMI-BAS-2, IBL-BAS-4.	НФНИ – МОН ОХН1103 (OHN-1103/01),	1950 BGN	
147.	Etude De Reseaux D'antennes Intelligentes Pour Les Systemes De Communication Sans Fil	Prof. Blagovest Shishkov, DSc University of Paris 6, France. Participants: IMI-BAS-3,University of Paris 6-3.	Program Pie-Ril Agr. N 2/7 Rila IST/EC FP6	9700 BGN	Yes, where Smart Antennas in Wireless Telecommunication are used.

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148.	Biomedical Data Research using Multi-resolution analisys IR2	Prof. Sc.Dr. Ognyan Kounchev –IMI-BAS Aristotle University of Thessaloniki. Participants: IMI-BAS-2,IPP-BAS-1, CBME -BAS-1, Aristotle University of Thessaloniki-3	NSF-Bulgaria	11000 BGN	Biomedical Data Research
149.	New Technologies in Cultural Heritage	Trifon Trifonov, IMI-BAS.Participants: IMI-BAS-2	Bulgarian Ministry of Transport and Communications	4000 BGN	Information and Communication Technologies in Cultural Heritage.
150.	Digitization of Scientific Heritage 2005-2007	2005 Dr. Milena Dobreva 16 participants from the department, 1 from the Institute of Bulgarian Language, 2 from Sofia Archives 2006 PhD Milena Dobreva 18 participants from the department, 1 from the Institute of Bulgarian Language, 1 from Sofia Archives			n.a.
151.	Information Technologies Applications in Humanities 2007-	2007 Dr. Milena Dobreva 9 participants, 1 from the Institute of Bulgarian Language, 2 from Sofia University, 1 PhD student 2008 Dr. Milena Dobreva 10 participants,1 PhD student			n.a.
152.	2004 Unified Approach in the Encoding of Cyrillic	Dr. Milena Dobreva 7 participants, 1 PhD student	NSF ННП-4-02/04	17000 BGN	n.a.
153.	2004 State of the art technological approaches in the cultural heritage sector	Trifon Trifonov, 1 participant, 1 PhD student	State Agency for ICT ИД 17/30.07.2004	1180 BGN	n.a.

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154.	2004-2005 Development of XML catalogue of Bulgarian mediaeval manuscripts in the Bulgarian library collections	Dr. Milena Dobreva 6 participants, 1 PhD student	State Agency for ICT	9160 BGN	n.a.
155.	2006 Support for the organisation of the 10th International Conference ElPub'2006.	Dr. Milena Dobreva 4 participants	State Agency for ICT	9200 BGN	n.a.
156.	2006 Digitisation of the Archive of the State Attestation Commission	Nikola Ikonomov, 6 participants	State Attestation Commission	9000 BGN	n.a.
157.	2004-2008 KT-DigiCult-BG	Dr. Milena Dobreva 12 participants, 1 PhD srudent	MTKD-509754, Marie Curie, Transfer of Knowledge	474924 EUR	n.a.
158.	2004 HERMES	Trifon Trifonov, 1 participant, 1 PhD student	FP6, INTERREG		n.a.
159.	2004-2008COST 292 Semantic multimodal analysis of Digital Media	Dr. Milena Dobreva	COST 292		n.a.
160.	2005 COMTOOCI	Dr. Milena Dobreva 8participants, 1 PhD student	Culture 2000	15000 EUR	n.a.
161.	2006Support for the organisation of the 10th International Conference ElPub'2006.	PhD Milena Dobreva 4 participants	CEI	9000 BGN	n.a.
162.	2007-2008 IGMAP	Dr. Milena Dobreva 8 participants, 1 PhD student	Programme eContentplus ECP-2005-CULT-038042	33000 EUR	n.a.
163.	2006-2007Digitization of Audio Archives and Production of a Directory of Institutions from SEE Involved in Digitization of Cultural Heritage	Dr. Nikola Ikonomov 6 participants	UNESCO	10000 USD	n.a.
164.	2008 – ssociated partner in the following EU projects: MINERVA, MICHAEL and EDL	Dr. Milena Dobreva participants	EC		n.a.

Number	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR Partner organization or coordinator, number of participants from the unit and from other BAS units, number of PhD students	FUNDING provided by /institution, reg. № or code of the project /contract, etc./	RECEIVED FUNDING BY THE UNIT in BGN, or EUR, or USD	Relevance to industry and the economy /area of application/
165.	2002-2004 Predictive models for motor recovery after brain injury	Dr. Plamen Mateev	Academy's bilateral agreements, Finland		Medicine
166.	2004-2006 igitization of Scientific and cultural heritage	Dr. Milena Dobreva , 7 participants, 1PhD student	Academy's bilateral agreements - Serbia and MonteNegro		n.a.
167.	CEI Support to the IMI Jubilee Conference	Dr. Milena Dobreva participants	CEI	6411 EUR	n.a.
168.	Modelling and Simulation Tools for Research in Emerging Multi-service Telecommunications	Chairman: Prof. Dr. Nejat Ince Participants: IMI-BAS-2, Bulgarian Members of the Management Committee: S. A. Poryazov and E.T. Saranova.	EU project COST 285	for travel expenditures	Design and research of Telecommu-nication systems
169.	Traffic and QoS Management in Wireless Multimedia Networks" (http://www.cost290.org/).	Chairman: Prof. Yevgeni Koucheryavy, Finland.Participants: IMI-BAS-1, Bulgarian Member of the Management Committee: S. A. Poryazov.	EU project COST 290	for travel expenditures	Telecommu-nication system-design and research
170.	Electronic Publishing for Cultural Heritage Studies	Chairman: Milena Dobreva, Participants: IMI-BAS-1	EC FP5		Information and Communication Technologies in Cultural Heritage.
171.	New Terminal Traffic Models in Telecommunication Switching Systems (Нови модели на терминалния телетрафик в системи с комутация на канали)	Coordinator for Bulgaria: S. A. Poryazov. Coordinator for Russia: I. I. Tsitovich. Participants: IMI-BAS-3,IIT-BAS-1	Joint Research Project with the Russian Academy of Sciences (Institute for Information Transmission Problems (IITP).	for travel expenditures	In Telecommu-nication systems

Number	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR Partner organization or coordinator, number of participants from the unit and from other BAS units, number of PhD students	FUNDING provided by /institution, reg. № or code of the project /contract, etc./	RECEIVED FUNDING BY THE UNIT in BGN, or EUR, or USD	Relevance to industry and the economy /area of application/
172.	Methods and Tools for Terminal Teletraffic Modelling in (Virtual) Channel Switching Systems	Coordinator for China: Liang Xiong-Jian.. Coordinator for Bulgaria: S. A. Poryazov Participants: IIT-BAS-2, CTP-Sofia-2	Joint research project with Dept. of Management Engineering, Beijing University of Posts&Telecom (UPT), China. Sign Ministry of Education and Science No: 10-10B		Design and research of Telecommu-nication systems
173.	Predictive models for motor recovery after brain injury	Chairman: Assoc.Prof. Plamen Mateev Participants: IMI-BAS-1, St. Naum- 1 (Hospital St. Naum)	Bulgarian-Finland Joint Research ProjectBAS	for travel expenditures	In Medical Human Care
174.	Terminal Traffic Structure Research with application in Telecommunication Networks Optimization iR1	Coordinator for Bulgaria: S. A. Poryazov. Coordinator for Russia: I. I. Tsitovich. Participants: IMI-BAS-3	Joint Research Project with the Russian Academy of Sciences (Institute for Information Transmission Problems (IITP). This is the 5th Joint Research Project between IMI and IITP, in this field, since 1988	BAS. For travel expenditures	Telecommu-nication system - design and research
175.	Methods and resources for information modelling of business systems	Chairman: S. A. Poryazov, Participants: IMI-BAS-3, IIT-BAS-1, CBME - BAS-1	Research project donation by IBM	10000 USD IBM, USA	Business Process management
176.	Information research	budget subsidy of BAS-12 participants			
177.	Towards a High Level Semantic Retrieval in Multimedia Systems	common project between Italian National Research Council and Bulgarian Academy of Sciences-3 participants			

Number	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR Partner organization or coordinator, number of participants from the unit and from other BAS units, number of PhD students	FUNDING provided by /institution, reg. № or code of the project /contract, etc./	RECEIVED FUNDING BY THE UNIT in BGN, or EUR, or USD	Relevance to industry and the economy /area of application/
178.	Transform Methods, Special Functions, Operational Calculi and Applications	Asso. Prof. Virginia Kiryakova, PhD; Coordinator: IMI – BAS; Participants from the unit: 5; from other partner org. (TU-Sofia): 2;	Funding: only budget subsidy of BAS for salaries		Theoretical / appl. in Mathematical Modeling and Engineering Sci
179.	Functions of one complex variable	Prof. Ralitza Kovacheva, DSc.; Coordinator: IMI – BAS; Participants from the unit: 3	Funding: only budget subsidy of BAS for salaries		Theoretical
180.	Multidimesional complex Analysis and Geometry	Prof. Johan Davidov, DSc Coordinator: IMI – BAS; Participants from the unit: 7	Funding: only budget subsidy of BAS for salaries		Theoretical
181.	Fractional Calculus and Applied Analysis	Asso. Prof. Virginia Kiryakova, PhD; Coordinator: IMI – BAS; Partner Org. – TU Sofia, Higher School Civil Eng. "L. Karavelov" Participants from the unit: 3 ; from other partner orgs.: 4	Funding provided by NSF; Research Project No "MM 1305/2003 (2003-2007)	total 10570 BGN (2003-2007)	Theoretical / appl. in Mathematical Modeling and Engineering Sci
182.	Research and Identification of Valuable Bells of the Historic and Culture Heritage of Bulgaria and Development of Audio and Video Archive using Advanced Technologies	Assist. Prof. Georgi Dimlov, PhD; Coordinator: IMI – BAS; Partner Org. – Institute for Folklore (BAS), Institute of Mechanics (BAS), University of V. Tarnovo, Sofia University Participants from the unit: 3 ; ; from other partner orgs.: 4	Funding provided by Ministry of Education and Science – Res. Project No Д01-980/ 07.12.2006	151000 BGN	Theoretical with interdisciplinary applications in acoustic, folklore and history.

Number	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR Partner organization or coordinator, number of participants from the unit and from other BAS units, number of PhD students	FUNDING provided by /institution, reg. № or code of the project /contract, etc./	RECEIVED FUNDING BY THE UNIT in BGN, or EUR, or USD	Relevance to industry and the economy /area of application/
183.	Complex analysis, complex geometry and mathematical physics	Prof. Johan Davidov, DSc (2007-2008). Coordinator: IMI – BAS; Partner Org.: Steklov Institute of Mathematics, Russian Academy of Sciences, Moscow, Russia Participants from the unit: 3 ; from partner orgs.: 3	Funding: only budget subsidy of BAS		Theoretical / appl. in Mathematical Physics
184.	Invariant metrics and complex geometry	Prof. Oleg Muskarov, DSc; Coordinator: IMI – BAS; Partner Org.: Institut de mathematiques de Toulouse, France Participants from the unit: 2; from partner orgs.: 2	UMR CNRS 5219		Theoretical
185.	Research project in the frame of scientific collaboration between BAS and DFG	Prof. Ralitza Kovacheva, DSc; Coordinator: IMI – BAS; Partner Org. Katholische Universität – Eichstaett Participants from the unit: 1; from partner orgs.: 2	Funding provided by DFG Research Project No BL272/10-1		Theoretical
186.	Qualitative theory of differential equations, control and applications in cellular neural networks and mechanics	Prof. Angela Slavova	Israel		
187.	High Level Semantic Retrieval in Multimedia Systems	Prof. Peter Stanchev	Italy		
188.	Approximation Theory	Acad. Borislav Boyanov	Hungary		
189.	Dynamic crack-inclusion interaction problems in functionally graded anisotropic and piezoelectric solids	Prof. DSc. Tsviatko Rangelov	DFG		

Annex 2: List of the publications of the research scientists split up as follows

2.1. Papers published in science journals
2.1.1 Abroad

1. Agranovich G., E.Litsyn, **A.Slavova**, Discrete-continuous control of bifurcations and oscillatory behaviour in a class of cellular neural networks, Neural, Parallel and Scientific Comput., vol. 13, No.3-4, 2005, pp. 393-410
2. Agranovich G., E.Litsyn, **A.Slavova**, Impulsive Control of a Hysteresis Cellular Neural Network Model, Nonlinear Analysis: Hybrid Systems 3 (2009), pp. 65-73, DOI information: 10.1016/j.nahs.2008.10.006
3. Albanese A., **P. Popivanov**. Gevrey hypoellipticity and solvability on the multidimensional torus of some classes of linear PDE, Annali Univ. di Ferrara, Sez. VII, Sci. Matematiche, vol. 52, 65-81, (2006).
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5. Albanese A., **P. Popivanov**. On the global solvability in Gevrey classes on the n-dimensional torus, J. Math. Anal. and Appl., 297, (2004). (IF)
6. Aldaz J.M., **O. Kounchev**, H. Render, On real-analytic recurrence relations for cardinal exponential B-splines. *J. Approx. Theory* 145 (2007), *no. 2,* 253–265.
7. **Alexandrova T.**, H. Morita, "On Increasing the Number of Users in (t, n) Threshold Secret Sharing Schemes," *IEICE Trans. on Fundamentals*, vol. E91-A, no. 8, pp. 2138-2150, 2008.
8. Alexiev K., **O. Kounchev**, H. Render, Stable recurrence relations for a class of L-splines and for polysplines. *Geometric modeling and computing*: *Seattle* 2003, 1–12, *Mod. Methods Math.*, *Nashboro Press*, *Brentwood*, *TN*, 2004.
9. Almeder C., G. Feichtinger, W. Sanderson, **V. Veliov**, Prevention and medication of HIV/AIDS: The case of Botswana. *Central European J. Oper. Res.*, 15(1):47-61, 2007.
10. Alsmeyer G., **M. Slavtchova-Bojkova** (2005): Limit Theorems for Subcritical Age-dependent Branching Processes with Two Types of Immigration. Stochastic Models, 21(1), 133-147.
11. Amin Z, **Gueorguieva R**, Cappiello A, Czarkowski KA, Stiklus S, Anderson GM, Epperson CN. (2006) "Estradiol and tryptophan depletion interact to modulate cognition in menopausal women." *Neuropsychopharmacology* 31(11): 2489-2497.
12. Andonov R., **N. Yanev**, D. Lavenier, P. Veber. *Dynamic Programming for LR-PCR Segmentation of Bacterium Genoms*, Concurrency and Computation: Practice and Experience, 2005, Vol. 17, 1657-1668, Wiley & Sons
13. Andonov R., **N. Yanev**, Noel Malod-Dognin. *An Efficient Lagrangian Relaxation for the Contact Map Overlap Problem*, 8th Workshop on Algorithms in Bioinformatics (WABI), September 15-17, 2008. Universität Karlsruhe, Germany , Lecture Notes in Computer Science, V 5251/2008, pp 162-173, *http://dx.doi.org/10.1007/978-3-540-87361-7_14*
14. Andonov R., S. Balev, **N. Yanev**. *Protein threading: from mathematical models to parallel implementations*, INFORM Journal of computations, 16, 4, 393-405, Wiley & Sons, 2004.
15. **Andreev A.,** (with N. Kirov),.Some Variants of Hausdorff Distance for Word Matching, Review of the National Center for Digitization, 12, 3-8, 2008.

16. Andreev A.B., **R.D. Lazarov**, and M.R. Racheva, Postprocessing and Higher Order Convergence of Mixed Finite Element Approximations of Biharmonic Eigenvalue Problems, *J. Comput. Appl. Math*., 182 (2) (2005), 333-349.

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18. **Andrey Todorov,** *Weil-Petersson volumes of the moduli spaces of CY manifolds*, Commun. Anal. Geom. 15, No. 2, 381-405 (2007).

19. Anguelov,R., **S. Markov,** Bl. Sendov, Reliable Computing 12, (2006), 337–363.

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21. **Apostolov, V.** "A remark on Kähler metrics of constant scalar curvature on ruled complex surfaces" (with C. Tønnesen-Friedman). // Bull. London Math. Soc. 38 (2006), no. 3, 494–500.

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33. Baier R., **E. Farkhi**, *The Directed Subdifferential of DC functions*. to appear in Contemporary Mathematics.

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Annex 3: List of scientific products ready to be implemented in industry

Not applicable to IMI

Annex 4: Table of the scientific products, inventions and patents produced over the period 2004-2008, presented within the following columns: heading, registration number of the patent, etc., user, mode of participation of the scientific unit in the implementation, mode of realization (e.g. marketing, implementation, etc.), effect of the realization, transfer of technologies under contracts with industry.

Not applicable to IMI

Annex 5: IMI Patent-license activities, including individual patents of scientists of the Unit registered over the period 2004-2008

5.1. Support of protection documents:

Author	**Heading**	**Participation of external organizations and private persons participating in the support**	**Income**
Prof. Lilia Popova	Patent № BG 65549, Bulletin of the Patent Agency of Republic Bulgaria,book 11 (2008), "Method of Energy Production and Radioactive Waste Treatment"		

5.2. Applications for protection documents under way:

Author	**Name**	**Country**
Prof. Lilia Popova	"Model of Transport of Magnetically Confined Plasma"	001430 BG 22/09/2008 in the Patent Agency of Republic of Bulgaria
Prof. Lilia Popova	"Model Independent Control of Plasma"	110066 BG 22/04/2008 in the Patent Agency of Republic of Bulgaria

STAFF STRUCTURE OF INSTITUT OF MATHEMATICS AND INFORMATICS BY 31.12.2008

Name of the structural unit, laboratory, department etc. (according to the organizational chart)	Total staff		Including																			
			Research staff															Research supporting staff			Technicians	Other staff incl. administration
	Number of positions	Number of occupied positions	TOTAL	Senior research fellows							Junior research fellows					Research degree holders		Graduates without PhD	With vocation. Training	With secondary education		
				Total number	including						Total number	out of them										
					Acad.	Corr.-mem	Prof.	Sr. res.fell I degree	Assoc. Prof.	Sr. res.fell. II degree		res.assoc I degree	res.assoc II degree	res.assoc III degree	PhD holders without acad.ranks	DSc	PhD					
a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	a15	a16	a17	a18	a19	a20	a21	a22	a23
I. TOTAL STAFF	222,00	222,00	150,50	107,25	4,00	1,25	3,00	22,75	1,00	75,25	43,25	24,25	13,00	5,00	1,00	41,00	114,00	43,00	4,50	9,00	2,00	13,00
INCLUDING PART-TIME EMPLOYED	0,50	0,50																	0,50			
II. STAFF BY STRUCTURAL UNITS	222,00	222,00	150,50	107,25	4,00	1,25	3,00	22,75	1,00	75,25	43,25	24,25	13,00	5,00	1,00	41,00	114,00	43,00	4,50	9,00	2,00	13,00
1.Directorial Board	6,50	6,50	5,00	4,00	1,00			1,00		2,00	1,00	1,00				2,00	3,00	1,00	0,50			
2. Algebra	8,25	8,25	7,25	7,25		1,00				6,25	0,00					2,00	7,00	1,00				
3. Mathematical Logic	5,00	5,00	4,00	4,00						4,00	0,00						4,00	1,00				
4.Geometry and Topology	4,00	4,00	3,00	2,00			1,00		1,00		1,00			1,00		1,00	1,00	1,00				
5. Real and Functional Analysis	4,00	4,00	4,00	4,00	1,00			2,00		1,00	0,00					3,00	1,00					
6. Complex Analysis	11,00	11,00	11,00	9,00				2,00		7,00	2,00	2,00				2,00	8,00					
7. Differential equations	10,25	10,25	9,25	8,25	1,00	0,25		2,00		5,00	1,00	1,00				4,00	6,00	1,00				
8. Mathematical Physics	7,25	7,25	7,25	6,25				4,00		2,25	1,00	1,00				5,00	3,00					
9. Education in Math. and Informatics	8,00	8,00	6,00	5,00				2,00		3,00	1,00		1,00			2,00	3,00	2,00				
10. Information Research	12,00	12,00	6,50	2,50				1,00		1,50	4,00	2,00	2,00			1,00	3,00	3,00	0,50	2,00		
11. Artifical Intelligence	7,25	7,25	7,25	4,25				1,00		3,25	3,00	3,00				1,00	5,00					
12. Software Engineering	9,50	9,50	7,50	4,50						4,50	3,00	2,00		1,00		1,00	6,00	1,00	1,00			
11. Mathematical Linguistic	9,50	9,50	8,00	5,00						5,00	3,00	1,00	1,00	1,00			6,00	1,50				
12. Mathematical Foundations of Informatics	19,25	19,25	12,75	8,75				0,50		8,25	4,00	3,00	1,00			2,00	14,00	5,50				1,00
13. Telekommunications	4,00	4,00	3,00	1,00						1,00	2,00		1,00	1,00			2,00	1,00				
14. Humanities Informatics	6,50	6,50	2,50	1,50						1,50	1,00		1,00				4,00	3,00	1,00			
15. Mathematical Modelling	9,75	9,75	8,25	7,00			2,00	1,00		4,00	1,25	0,25	1,00			3,00	7,00	0,50		1,00		
16. Probability and Statistics	12,50	12,50	11,50	7,50				2,25		5,25	4,00	3,00			1,00	4,00	9,00	1,00				
17. Operations Research	16,50	16,50	13,50	9,50	1,00			3,00		5,50	4,00	2,00	2,00			5,00	11,00	3,00				
18. Computational Mathematics	7,00	7,00	7,00	2,00						2,00	5,00	3,00	2,00			2,00	7,00					
19. Biomathematics	5,50	5,50	4,00	4,00				1,00		3,00	0,00					1,00	3,00	0,50		1,00		
20. Library and Sci. Information.	5,00	5,00	0,00	0,00							0,00							5,00				
21. Administrative	5,00	5,00	0,00	0,00							0,00							2,00		3,00		

Name of the structural unit, laboratory, department etc. (according to the organizational chart)	Total staff		Including																			
			Research staff															Research supporting staff			Technicians	Other staff incl. administration
	Number of positions	Number of occupied positions	TOTAL	Senior research fellows							Junior research fellows					Research degree holders		Graduates without PhD	With vocation. Training	With secondary education		
				Total number	including						Total number	out of them										
					Acad.	Corr.-mem	Prof.	Sr. res.fell I degree	Assoc. Prof.	Sr. res.fell. II degree		res.assoc I degree	res.assoc II degree	res.assoc III degree	PhD holders without acad.ranks	DSc	PhD					
a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	a15	a16	a17	a18	a19	a20	a21	a22	a23
22. Human Resources	8,00	8,00	2,00	0,00							2,00		1,00	1,00			1,00	4,00	1,00	1,00		
23. Financial and Account Department	4,00	4,00	0,00	0,00							0,00							3,00		1,00		
24. Service and Technical Support	16,50	16,50	0,00	0,00							0,00							2,00	0,50		2,00	12,00

The figures in column 3 are the sum of columns 4,19,20,21, 22 and 23

Human resources: G. Genchev

Chief accountant: G. Georgieva

Annex 7

BREAK DOWN OF THE PERSONAL OF IMI BY AGE GROUPS BY 31.12.2008

research unit

Number	**AGE GROUPS IN YEARS**										
	under 26	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	over 70
Academicians									4		
Corr.-members								2			
Sr. research fellows I degree and Professors					1	1	4	11	6	2	1
Sr. research fellows II degree and Associated Professors				7	4	11	19	20	14		
Research associates I degree		1	4	2	3	5	5	1	2	2	
Research associates II degree			4	4			3	2			
Research associates III degree		1		2	1			1			
Specialists with higher education	1	4	5	6	4	7	5	6	3		2

Human resources: G. Genchev

Chief accountant: G. Georgieva

INFORMATION ABOUT
PHD STUDENTS BY 31.12.2008

Research unit: IMI of BAS

PhD STUDENTS BY 31.12.2008 (for the entire period 2004-2008)				**NUMBER OF AWARDED PhD DEGREES (for the entire period 2004-2008)**			
Total	including			**Total**	including		
	* N	* F	* W		* N	* F	* W
1	2	3	4	**5**	6	7	8
58	55	3	31	**10**	8	2	7

* N -number of National PhD students; F -number of Foreign PhD students; W - number of Women

9.1. In institutions of higher education:

9.1.1. Lectures and specialized classes:

Year 2004

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Statistics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	180
Finite Mathematics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	90
Calculus I	Tatiana Gateva-Ivanova, Sen. research fellow II degree	American University in Bulgaria	90
Elementary Linear algebra and Analytical Geometry	Tatiana Gateva-Ivanova, Sen. research fellow II degree	American University in Bulgaria	135
Topics in Abstract Algebra	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	American University in Bulgaria	45
Probabilite et Statistique	Atanas Iliev, Sen.-research fellow II degree	Universite de Lille, France	45
Topics in Algebra	Vesselin Drensky, Cor.-member	University of Hong Kong	45
Information Society	Alexander Gerov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Information Society	Alexander Gerov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Languages for Functional and logic Programming	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	81
Artificial Intelligence	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	30
Translation Methods	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	14
Expert Systems	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	16
Languages for Functional and logic Programming	Alexander Gerov, Assoc. Prof. Ph.D.	Veliko Tarnovo University "St. St. Cyrilius and Metodius"	32
Artificial Intelligence	Alexander Gerov, Assoc. Prof. Ph.D.	Veliko Tarnovo University "St. St. Cyrilius and Metodius"	8
Object Oriented Programming	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	75
CASE Object Oriented Programming Instruments and environments	Alexander Grigorov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	20

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
New Information Technologies	Alexander Grigorov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	20
Fundamentals of Computer Technics	Daniela Nikolova-Popova	Technical University, Sofia	30
Theoretical Computer Technics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	30
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	15
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	60
Design and Multi-media in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	30
Introduction in OOP (Java)	Sregey Varbanov, Assist. Prof.	New Bulgarian University	45
Computer Skills- General Subject	Sregey Varbanov, Assist. Prof.	New Bulgarian University	270
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	45
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	30
Reliable Computing	Svetoslav Markov, Prof, DSc Evgenija D. Popova, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	30
Game theory	Mikhail Krastanov, Assoc. Prof, PhD	Sofia University "St. Kliment Ochridsky"	45
Optimal control	Mikhail Krastanov, Assoc. Prof, PhD	Sofia University "St. Kliment Ochridsky"	45
Applications of computer algebra systems in biolo-gical and medical investigations	Neli Dimitrova, Assoc. Prof, PhD	Sofia University "St. Kliment Ochridsky"	45
Mathematical modeling in biology and medicine	Svetoslav Markov, Prof, DSc	Sofia University "St. Kliment Ochridsky"	45
Mathematical modeling in biology	Svetoslav Markov, Prof, DSc	Sofia University "St. Kliment Ochridsky"	30
Mathematical Analysis	Ivan Dimovski, Prof., DSc	Shumen University, FMI	60
Mathematics	Ralitsa Kovacheva, Prof., DSc	Technical University, Sofia	300
Complex Analysis	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Methodology of Extracuricular work	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Extremal Problems	Oleg Muskarov, Prof., DSc	Plovdiv University	60
Calculus	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	180
Numerical methods	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	90
Basic course of Differential Equations	P.Popivanov, Acad., Prof., D.Sci.	Sofia University "St. Kliment Ochridsky"	60
Special course on geometrical methods for solving of fully nonlinear PDE	P.Popivanov, Acad., Prof., D.Sci.	Sofia University "St. Kliment Ochridsky"	45
Precalculus	G. Karadzhov, Prof., D.Sci.	Memorial University of Newfoundland, St. John's, Canada	30
Numerical Analysis	Stoyan Nedev, Dr. Sci. Prof.	American University in Bulgaria	39
Topology I	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Topology II	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Linear algebra	Stoyu Barov, PhD, Assist. Prof.	Ball State University, Muncie, IN, USA	60
Calculus II	Stoyu Barov, PhD, Assist. Prof.	Ball State University, Muncie, IN, USA	60
Calculus III	Stoyu Barov, PhD, Assist. Prof.	Ball State University, Muncie, IN, USA	60
Calculus I	Stoyan Nedev, Dr. Sci. Prof.	American University in Bulgaria	39
Artificial Intelligence	Maria Nisheva, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	90
Functional Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	30
Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	30
Knowledge Bases	Maria Nisheva, Assoc. Prof., PhD	Sofia University "St. Kliment Ochridsky"	30
Information theory	Plamen Mateev, Assoc. Prof. PhD	Sofia University "St. Kliment Ochridsky"	30
Probability and statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University "St. Kliment Ochridsky"	45
Applied statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University "St. Kliment Ochridsky"	45
Informatics	A.Iliev, Assoc. Prof. Dr.	Plovdiv University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Algorithms and data structures	A.Iliev Assoc. Prof. Dr.	Plovdiv University	30
Programming	A.Iliev Assoc. Prof. Dr.	Plovdiv University	54
Working with computer	M.Staneva, Research fellow	New Bulgarian University	30
Internet	M.Staneva, Research fellow	New Bulgarian University	30
Computer Skills	M.Staneva, Research fellow	New Bulgarian University	30
Linear Algebra (in English)	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Operational Systems	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	30
Programming and Data Structures	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	45
Introduction to program-ming C++ (in English)	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	30
Chaotic Dynamical Systems	Nikolay Kirov, Assoc.Prof., Ph.D.	Sofia University “St. Kliment Ochridsky”	30
Introduction to programming C++	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	30
Advanced programming	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	30
Object-Oriented Programming C++	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	45
Introduction to Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	60
Object-Oriented Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	45
Applied General Equilibrium	Tsvetomir Tsachev, Senior Researcher, Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Operative Management	Tsvetomir Tsachev, Senior Researcher, Ph.D.	Business Academy “D. Tsenov” – Svishtov	8
Object-Oriented Programming	Emil Kelevedjiev, Researcher	BAS – IMI	60
Classical and New Ideas in Mathematics	Emil Kelevedjiev, Researcher	New Bulgarian University	15
Mathematical Programming	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	150
Graph theory	Nikolay Kitanov	South-West University, Blagoevgrad	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Optimization in Graphs and Nets	Nikolay Kitanov	South-West University, Blagoevgrad	24
Game Theory	Julian Revalski, Prof., D.Sc.	University of French Antilles	60
Mathematical Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	110
Probability and Statistics	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Convex Analysis and Optimization	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Mathematical Analysis	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	100
Differential Equations	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	100
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Foundations of mathematics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Introduction to modern logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	60
Elements of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	60
Programming in Prolog	Dimiter Dobrev, mathematician	Sofia University "St. Kliment Ochridsky"	30
The Middle age and modernity - specialized class	K. Rangochev, PhD Ass. Prof.	Sofia University "St. Kliment Ochridsky"	30
The Medieval cultural space - specialized class	K. Rangochev, PhD Ass. Prof.	Sofia University "St. Kliment Ochridsky"	30
Numerical methods	Vladimir Hristov, Senior Research Fellow Dr	Sofia University "St. Kliment Ochridsky"	60
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University "St. Kliment Ochridsky"	45
Vector Calculus	Pencho Petrushev, Professor	University of South Carolina	30
Applied Mathematics II	Pencho Petrushev, Professor	University of South Carolina	30
Fourier Analysis II	Pencho Petrushev, Professor	University of South Carolina	30
Analysis II	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30
Differential equations	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30
Linear algebra	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Transcendental number theory	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Calculus	T. Rangelov, Prof.	New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Geometry	T. Rangelov, Prof.	New Bulgarian University	30
Linear algebra	G.Popov, Prof.	Universite de Nantes, France	30
General algebra	G.Popov, Prof.	Universite de Nantes, France	30
Real anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Complex anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Business Mathematics II	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Calculus I	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Linear Algebra and Multivariate	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Precalculus	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Coding Theory and Combinatorics	Stefan Dodunekov, Acad.Prof. DrSc	University of Veliko Tarnovo	30
Theory of Algorithms	Ivan Landjev, Prof. DrSci	Bourgas Free University	90
Higher Algebra	Ivan Landjev, Prof. DrSci	Bourgas Free University	30
Mathematical Foundations of Informatics	Ivan Landjev, Prof. DrSci	Bourgas Free University	70
Discrete Mathematics	Ivan Landjev, Prof. DrSci	Bourgas Free University	105
Introduction to Cryptography	Ivan Landjev, Prof. DrSci	Bourgas Free University	60
Complexity of Algorithms	Ivan Landjev, Prof. DrSci	Bourgas Free University	105
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	Bourgas Free University	30
Graph Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Cryptography	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Mathematical Founda-tions of Informatics	Ivan Landjev, Prof. DrSci	New Bulgarian University	45
Number Theory	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Coding Theory and Cryptography	Nikolai Manev, Assoc. Prof. PhD	University of Veliko Tarnovo	45
Linear Algebra	Nikolai Manev, Assoc. Prof. PhD	University of Veliko Tarnovo	45
Coding Theory, Cryptography and Combinatorics	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	60
Coding Theory and Data Protection	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	90

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Algebra	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	30
Operating Systems	Iliya Bouyukliev, Assoc. Prof. DrSci	Technical University of Varna	40
Coding Theory	Emil Kolev, Assoc. Prof. PhD	Plovdiv University "Paisii Hilendarski"	50
Discrete Mathematics	Tsonka Baicheva, Assoc. Prof. PhD	University of Veliko Tarnovo	30
Coding Theory and Data Protection	Tsonka Baicheva, Assoc. Prof. PhD	Bourgas Free University	60
Discrete Mathematics	Svetlana Topalova, Assoc. Prof. PhD	Technical University,Varna	40
C++ Programming	Svetlana Topalova, Assoc. Prof. PhD	Technical University,Varna	40
C++ Programming	Svetlana Topalova, Assoc. Prof. PhD	University of Veliko Tarnovo	40
Business applications	Galina Bogdanova, Assoc. Prof. PhD	Technical University,Varna	36
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	Technical University,Varna	36
Macroses in MS office	Galina Bogdanova, Assoc. Prof. PhD	Technical University,Varna	36
Systems for analyze and projecting	Galina Bogdanova, Assoc. Prof. PhD	Technical University,Varna	36
WEB Programming	Galina Bogdanova, Assoc. Prof. PhD	Technical University,Varna	36
Contemporary platforms for databases	Galina Bogdanova, Assoc. Prof. PhD	University of Veliko Tarnovo	15
Compressing and archiving of information	Galina Bogdanova, Assoc. Prof. PhD	University of Veliko Tarnovo	20
Databases	Galina Bogdanova, Assoc. Prof. PhD	University of Veliko Tarnovo	45
Informatics	Galina Bogdanova, Assoc. Prof. PhD	University of Veliko Tarnovo	30
Discrete Mathematics	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	60
Discrete Structures	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Introduction to Algorithms	Krassimir Manev, Assoc. Prof. PhD	American University -- Blagoevgrad	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	30
Teaching the mathematics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	30
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Programming languages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Audio-Visual and Information Technologies in Education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Transport	30
General courses on mathematics for international students;	Yordanka Gorcheva, Assistant Prof.	Ohio University, USA	30
Lectures in Precalculus, Calculus with Applications, Statistics, Mathematics for Elementary School Teachers	Yordanka Gorcheva, Assistant Prof.	Ohio University, USA	30
Probability Theory	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Stochastic Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Probability Theory 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Branching Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	90
Data Analysis for Process Modeling	E. Stoimenova, Assoc. Prof.	Bauhaus-Universitat Weimar, Germany	30
Statistics	E. Stoimenova, Assoc. Prof.	American University in Bulgaria	135
Stochastic approach in insurance and financial problems	E. Pancheva, Prof.	EA Dimitar Cenov, Svishtov together with IMI of BAS	16
Risk Theory	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Applied Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Actuarial Mathematics 2	V. Kaishev, Assoc. Prof.	City University of London	60
Stat. Prob. models in Insurance	V. Kaishev, Assoc. Prof.	City University of London	72
Chapters from Analysis	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Integral of Lebeg	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Mathematical Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Complex Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	45
Differential and Integral Calculus	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Integral of Lebeg	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Analysis III (Measure Theory and Integration)	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Mathematics IV (Ordinary Differential Equations for Biologists	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Software Engineering (XP)	A. Eskenazi, Sen.res	New Bulgarian University	30
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	95
Software Engineering (XP)	A. Eskenazi, Sen.res	Varna Free University	30
E-commerce	A. Eskenazi, Sen.res	Academy of Economics – Svishtov-IMI	20
E-commerce	A. Eskenazi, Sen.res	University of Veliko Tyrnovo-IMI	30
Database systems	Y. Peneva, Sen.res	City University	30
Management information systems	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	University of National and World Economy	30
Introduction to database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Introduction to database systems	Y. Peneva, Sen.res	University of National and World Economy	30
Advanced database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Information modelling	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems engineering	Y. Peneva, Sen.res	New Bulgarian University	30
Emerging Database Tech-nologies and Applications	Y. Peneva, Sen.res	New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Information systems	Y. Peneva, Sen.res	Academy of Economics – Svishtov	30
Software engineering	Y. Peneva, Sen.res	University of National and World Economy	30
Software engineering	N. Maneva, Sen.res	New Bulgarian University	30
Current trends in software engineering	N. Maneva, Sen.res	New Bulgarian University	30
Project management and software development	N. Maneva, Sen.res	New Bulgarian University	30
Software engineering	N. Maneva, Sen.res	New Bulgarian University	30
Information technologies	N. Maneva, Sen.res	International University and College – Sofia	45
Object Oriented Modeling	G. Tuparov, Res.ass.	New Bulgarian University	90
Programming of Client-Server Information Systems	G. Tuparov, Res.ass.	New Bulgarian University	30
Object Oriented and Distributed Databases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet Programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Principles of programming languages	B. Bantchev, Res.Ass.	New Bulgarian University	30
Expert systems	Maria Nisheva, Assos. Prof. PhD	Sofia University	30
Knowledge basis	Maria Nisheva, Assos. Prof. PhD	Sofia University	30
Artificial Intelligence	Maria Nisheva, Assos. Prof. PhD	Sofia University	120
Functional Programming	Maria Nisheva, Assos. Prof. PhD	Sofia University	30
Artificial Intelligence	Maria Nisheva	South West University, Blagoevgrad	60
Computer networks and communications	Stoyan Poryazov, Sen. res. PhD	University of Veliko Turnovo	45
Mathematical statistics	Plamen Mateev, Assos. Prof. PhD	Sofia University	15
Quantative methods in marketing research	Plamen Mateev, Assos. Prof. PhD	Sofia University	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Elements of information theory	Plamen Mateev, Assos. Prof. PhD	Sofia University	15
Insurance mathematics	Plamen Mateev, Assos. Prof. PhD	Sofia University	15
Task in Insurance mathematics	Plamen Mateev, Assos. Prof. PhD	Sofia University	15
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Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Statistics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	180
Finite Mathematics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	90
Calculus I	Tatiana Gateva-Ivanova, Sen. research fellow II deg.	American University in Bulgaria	45
Elementary Linear algebra and Analytical Geometry	Tatiana Gateva-Ivanova, Sen. research fellow II deg.	American University in Bulgaria	135
Topics in Abstract Algebra	Tatiana Gateva-Ivanova, Sen. research fellow II deg.	American University in Bulgaria	45
Artificial Intelligence	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	24
Translation Methods	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	12
Management Information Sysytems	Alexander Gerov, Assoc. Prof. Ph.D.	New Bulgarian University	30
Information Society	Alexander Gerov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Artificial Intelligence	Ventzeslav Valev, Prof. D.Sci.	Parks College of Engineering and Aviation, USA	30
Numerical Analysis	Ventzeslav Valev, Prof. D.Sci.	Parks College of Engineering and Aviation, USA	30
Discrete Probability and Data Analysis	Ventzeslav Valev, Prof. D.Sci.	Parks College of Engineering and Aviation, USA	30
Discrete Mathematics	Ventzeslav Valev, Prof. D.Sci.	Parks College of Engineering and Aviation, USA	30
Scientific Programming	Ventzeslav Valev, Prof. D.Sci.	Parks College of Engineering and Aviation, USA	30
Object Oriented Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	70
New Information Technologies	Alexander Grigorov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	25
Languages for Functional	Alexander Grigorov, Assoc.	Shoumen University "Ep.	35

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
and logic Programming	Prof. Ph.D.	Konstantin Preslavsky”	
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Internet Technologies	Sregey Varbanov, Assist. Prof.	New Bulgarian University	30
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	90
Object Oriented Programming (Java)	Sregey Varbanov, Assist. Prof.	New Bulgarian University	90
Computer Skills- General Subject	Sregey Varbanov, Assist. Prof.	New Bulgarian University	240
Fundamentals of mathematics	Valentin Brimkov, Assoc. Prof. Ph.D.	Fairmont State University, Fairmont, West Virginia, USA	45
Introduction to computer science	Valentin Brimkov, Assoc. Prof. Ph.D.	Fairmont State University, Fairmont, West Virginia, USA	90
Discrete geometry	Valentin Brimkov, Assoc. Prof. Ph.D.	Fairmont State University, Fairmont, West Virginia, USA	90
Modern geometry	Valentin Brimkov, Assoc. Prof. Ph.D.	State University of New York, Buffalo State College, Buffalo, New York, USA	45
Discrete Mathematics	Valentin Brimkov, Assoc. Prof. Ph.D.	State University of New York, Buffalo State College, Buffalo, New York, USA	90
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	15
Fundamentals of Computer Technics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	30
Theoretical informatics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	60
College Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	180
College Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	180
Calculus I	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	120
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Sofia University “St. Kliment Ochridsky”	45
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Sofia University “St. Kliment Ochridsky”	30
Reliable Computing	Svetoslav Markov, Prof, DSc Evgenija D. Popova, Assoc. Prof., PhD	Sofia University “St. Kliment Ochridsky”	30
Game theory	Mikhail Krastanov, Assoc. Prof, PhD	Sofia University “St. Kliment Ochridsky”	45
Optimal control	Mikhail Krastanov, Assoc. Prof, PhD	Sofia University “St. Kliment Ochridsky”	45
Applications of computer algebra systems in	Neli Dimitrova, Assoc. Prof, PhD	Sofia University “St. Kliment Ochridsky”	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
biological and medical investigations			
Mathematical modeling in biology and medicine	Svetoslav Markov, Prof, DSc	Sofia University "St. Kliment Ochridsky"	45
Mathematical modeling in biology	Svetoslav Markov, Prof, DSc	Sofia University "St. Kliment Ochridsky"	30
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University "St. Kliment Ochridsky"	75
Mathematical Analysis	Ivan Dimovski, Prof., DSc	Shumen University, FMI	30
Mathematics	Ralitsa Kovacheva, Prof., DSc	Technical University, Sofia	390
Complex Analysis	Ralitsa Kovacheva, Prof., DSc	Technical University, Sofia	90
Complex Analysis	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Methodology of Extracuricular work	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	30
Calculus	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	180
Numerical methods	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	45
Mathematics	Prof. DSci Michail Kaschiev	South-West University of Blagoevgrad	45
Calculus	G. Karadzhov, Prof., D.Sci.	Concordia University, Montreal, Canada	30
Calculus I	Stoyan Nedev, Dr. Sci. Prof.	University of Ohio, USA	40
Ordinary Differential Eq.	Stoyan Nedev, Dr. Sci. Prof.	University of Ohio, USA	40
Algebraic Topology	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Artificial Intelligence	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	90
Functional Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	75
Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	30
Knowledge Bases	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	60
Information theory	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	30
Probability and statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Applied statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Object Oriented Ptogramming	Lasko Laskov, Phd student	New Bulgarian University	30
Web technologies	P. Stanchev, Prof.D. Sc.	Sofia University	45
Informatics	A.Iliev, Assoc. Prof. Dr.	Plovdiv University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Algorithms and data structures	A.Iliev, Assoc. Prof. Dr.	Plovdiv University	30
Programming	A.Iliev, Assoc. Prof. Dr.	Plovdiv University	54
Informatics	A.Iliev, Assoc. Prof. Dr.	Plovdiv University	30
Working with computer	M.Staneva, Research fellow	New Bulgarian University"	30
Internet	M.Staneva, Research fellow	New Bulgarian University"	30
Computer Skills	M.Staneva, Research fellow	New Bulgarian University"	30
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Linear Algebra (in English)	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Introduction to programming C++ (in English)	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Object-Oriented Programming C++ (in English)	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Data structures (in English)	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	30
Programming and Data Structures	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	45
Operational Systems	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	30
Introduction to Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	60
Object-Oriented Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	South-West University, Blagoevgrad	45
Advanced programming	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Object-Oriented Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	45
Applied General Equilibrium	Tsvetomir Tsachev, Senior Researcher, Ph.D.	University of Sofia	45
Object-Oriented Programming	Emil Kelevedjiev, Researcher	University of Sofia	60
Classical and New Ideas in Mathematics	Emil Kelevedjiev, Researcher	New Bulgarian University	15
Optimization in Discrete Structures	Nikolay Kitanov	South-West University, Blagoevgrad	30
Mathematical Programming I	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	150
Mathematical Programming I	Nadya Zlateva, Assoc.Prof., Ph.D.	Sofia University	90

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematical Programming II	Nadya Zlateva, Assoc.Prof., Ph.D.	Sofia University	60
Operational Research	Nadya Zlateva, Assoc.Prof., Ph.D.	Sofia University	30
Mathematical Foundations of Databases	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	30
Synthesis and Analysis of Algorithms	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	45
Econometrics	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	45
Operational Research	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	30
Neural Networks	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	30
Theory of Matroids	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	30
Game Theory and Equilibrium	Julian Revalski, Prof., D.Sc.	University of French Antilles	75
Calculus 1	Julian Revalski, Prof., D.Sc.	University of French Antilles	180
Mathematical Analysis	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	100
Differential Equations	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	100
Intermediate Statistics	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Foundations of mathematics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Foundations of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	60
The Middle age and modernity – specialized class	K. Rangochev, PhD Ass. Prof.	Sofia University	30
The Medieval cultural space – specialized class	K. Rangochev, PhD Ass. Prof.	Sofia University	30
Analysis I	Vladimir Hristov, Senior Research Fellow Dr	Sofia University	35
Numerical methods for nonlinear equations	Nikolay Kyurkchiev, Senior Research Fellow Dr	Sofia University	45
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	45
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	New Bulgarian University	30
Analysis III	Georgi Iliev, Senior Research Fellow Dr	Varna Technical University	90
Calculus I	Pencho Petrushev, Professor	University of South Carolina	30
Real analysis	Pencho Petrushev, Professor	University of South Carolina	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Analysis I	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30
Analysis III	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30
Analysis	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Transcendental number theory	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Differential equations	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Calculus	T. Rangelov, Prof.	New Bulgarian University	30
Geometry	T. Rangelov, Prof.	New Bulgarian University	30
Linear algebra	G.Popov, Prof.	Universite de Nantes, France	30
General algebra	G.Popov, Prof.	Universite de Nantes, France	30
Complex anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Business Mathematics II	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Calculus I	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Calculus for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Precalculus	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Differential Equations and Applications for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Introduction to Cryptography	Ivan Landjev, Prof. DrSci	Bourgas Free University	45
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	Bourgas Free University	30
Number Theory	Ivan Landjev, Prof. DrSci	Bourgas Free University	30
Graph Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Cryptography	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	New Bulgarian University	90
Mathematical Foundations of Informatics	Ivan Landjev, Prof. DrSci	New Bulgarian University	90
Combinatorics	Ivan Landjev, Prof. DrSci	Veliko Tarnovo University	45
Complexity of Algorithms	Ivan Landjev, Prof. DrSci	Veliko Tarnovo University	45
Cryptography	Ivan Landjev, Prof. DrSci	Veliko Tarnovo University	45
Number Theory	Nikolai Manev, Assoc. Prof. PhD	Sofia University	45
Coding Theory and Cryptography	Nikolai Manev, Assoc. Prof. PhD	Veliko Tarnovo University	45
Coding Theory	Nikolai Manev, Assoc. Prof. PhD	Veliko Tarnovo University	45
Computer Algebra	Nikolai Manev, Assoc. Prof. PhD	Veliko Tarnovo University	30
Higher Algebra	Nikolai Manev, Assoc. Prof. PhD	Veliko Tarnovo University	75

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Coding Theory, Crypto-graphy and Combinatorics	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	60
Coding Theory and Data Protection	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Number Theory	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Coding Theory and Data Protection	Tsonka Baicheva, Assoc. Prof. PhD	Bourgas Free University	15
Discrete Mathematics	Svetlana Topalova, Assoc. Prof. PhD	Technical University, Varna	40
C++ Programming	Svetlana Topalova, Assoc. Prof. PhD	Technical University, Varna	40
C++ Programming	Svetlana Topalova, Assoc. Prof. PhD	Veliko Tarnovo University	40
Business applications	Galina Bogdanova, Assoc. Prof. PhD	Technical University, Varna	24
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	Technical University, Varna	24
Macroses in MS office	Galina Bogdanova, Assoc. Prof. PhD	Technical University, Varna	24
Systems for analyze and projecting	Galina Bogdanova, Assoc. Prof. PhD	Technical University, Varna	24
WEB Programming	Galina Bogdanova, Assoc. Prof. PhD	Technical University, Varna	24
Contemporary platforms for databases	Galina Bogdanova, Assoc. Prof. PhD	Veliko Tarnovo University	40
Compressing and archiving of information	Galina Bogdanova, Assoc. Prof. PhD	Veliko Tarnovo University	60
Databases	Galina Bogdanova, Assoc. Prof. PhD	Veliko Tarnovo University	40
Discrete Mathematics	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	60
Discrete Structures	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Design and Analysis of Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
Teaching the mathematics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Programming languages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Audio-Visual and	Evgenia Sendova, Assoc.	Sofia University “St. Kliment	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Information Technologies in Education	Prof. Dr	Ohridski	
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Transport	30
General courses on mathematics for international students	Yordanka Gorcheva, Assistant Prof.	Ohio University, USA	30
Lectures in Precalculus, Calculus with Applications, Statistics, Mathematics for Elementary School Teachers	Yordanka Gorcheva, Assistant Prof.	Ohio University, USA	30
Probability Theory	M. Bojkova, Assoc. Prof.	Sofia University, FMI	120
Probability Theory 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	120
Probability Theory and Mathematical Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	180
Stochastic Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	120
Stochastic Processes 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	120
Branching Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	180
Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	135
Statistics	E. Stoimenova, Assoc. Prof.	American University in Bulgaria	45
Statistics	E. Stoimenova, Assoc. Prof.	EA Dimitar Cenov, Svishtov together with IMI of BAS	12
Stochastic approach in insurance and financial problems	E. Pancheva, Prof.	EA Dimitar Cenov, Svishtov together with IMI of BAS	10
Design of Experiments	V. Stoimenova, Dr	Sofia University, FMI	30
Introduction to Statistics	L. Mutafchiev, Prof.	University of South Florida	45
Applied Stochastic Models	L. Mutafchiev, Prof.	Department of Mathematics University of South Florida	45
Risk Theory	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Applied Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Actuarial Mathematics 2	V. Kaishev, Assoc. Prof.	City University of London	60
Stat. Prob. models in Insurance	V. Kaishev, Assoc. Prof.	City University of London	72
Banah Algebra and Spectral Theory	Stanimir Troyansky, Academician, D.Sci	University of Murcia, Spain	60
Analysis I	Stanimir Troyansky, Academician, D.Sci	University of Murcia, Spain	20
Chapters from Analysis	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Integral of Lebeg	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Mathematical Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Complex Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	45
Differential and Integral Calculus	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	Sofia University	45
Integral of Lebeg	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Mathematics IV (Ordinary Differential Equations for Chemists)	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Analysis III (Measure Theory and Integration)	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	45
Software Engineering (XP)	A. Eskenazi, Sen.res	Varna Free University	30
E-commerce	A. Eskenazi, Sen.res	Academy of Economics – Svishtov – IMI	20
E-commerce	A. Eskenazi, Sen.res	University of Veliko Tyrnovo	30
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Database systems	Y. Peneva, Sen.res	City University	30
Management information systems	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	City University	30
Introduction to database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Advanced database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Information modelling	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems engineering	Y. Peneva, Sen.res	New Bulgarian University	30
Emerging Database Technologies and Applications	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems	Y. Peneva, Sen.res	Academy of Economics – Svishtov	30
Knowledge bases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Design and implementation of business systems	G. Tuparov, Res.ass.	New Bulgarian University	60
Design of client-server information systems	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Functional programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet technologies	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Portal Applications with	G. Tuparov, Res.ass.	New Bulgarian University	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Oracle Technologies			
Object Oriented Modeling	G. Tuparov, Res.ass.	New Bulgarian University	90
Programming of Client-Server Information Systems	G. Tuparov, Res.ass.	New Bulgarian University	30
Object Oriented and Distributed Databases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet Programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Principles of programming languages	B. Bantchev, Res.Ass.	New Bulgarian University	30
Modern functional programming	B. Bantchev, Res.Ass.	New Bulgarian University	30
Statistics of stochastic process	Blagovest Shishkov, Prof. Dr	Sofia University	45
Artificial Intelligence	Maria Nisheva, Assos. Prof. PhD	Sofia University	90
Functional programming	Maria Nisheva, Assos. Prof. PhD	Sofia University	75
Knowledge basis	Maria Nisheva, Assos. Prof. PhD	Sofia University	30
Expert systems	Maria Nisheva, Assos. Prof. PhD	Sofia University	30
Computer networks and communications	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	45
System analysis and Information modeling	Stoyan Poryazov	University of Veliko Turnovo	45
Applied statistics	Plamen Mateev, Assos. Prof. PhD	Sofia University	45
Statistcs – 2	Пламен Матеев	Sofia University	30
Insurance mathematics -1	Plamen Mateev, Assos. Prof. PhD	Sofia University	30
Insurance mathematics -2	Plamen Mateev, Assos. Prof. PhD	Sofia University	30
Elements of information theory	Plamen Mateev, Assos. Prof. PhD	Sofia University	30
Experiment planing	Plamen Mateev, Assos. Prof. PhD	Sofia University	30
Total 2005			**12 360**

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Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Statistics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	180
Finite Mathematics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	90
Ideals Varieties and Algorithms	Tatiana Gateva-Ivanova, Sen.-research fellow II deg.	American University in Bulgaria	45
Elementary Linear algebra and Analytical Geometry	Tatiana Gateva-Ivanova, Sen.-research fellow II deg.	American University in Bulgaria	90
Combinatorial Methods in Noncommutative Algebra	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	Universidad de Granada, Spain	20
Artificial Intelligence	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	24
Translation Methods	Alexander Gerov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	12
Management Information Sysytems	Alexander Gerov, Assoc. Prof. Ph.D.	New Bulgarian University	30
Information Society	Alexander Gerov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Numerical Methods	Ventzeslav Valev, Prof. D.Sci.	St. Louis University, USA	45
Scientfic Programing	Ventzeslav Valev, Prof. D.Sci.	St. Louis University, USA	45
Algorithms	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University, Northern Cyprus Campus, Cyprus	45
Calculus	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University, Northern Cyprus Campus, Cyprus	60
Discrete Mathematical Structures.	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University, Northern Cyprus Campus, Cyprus	45
Introduction in Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	45
Web Data Bases	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Object Oriented Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Shoumen University "Ep. Konstantin Preslavsky"	55
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Internet Technologies	Sregey Varbanov, Assist. Prof.	New Bulgarian University	60
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	180
Computer Skills-General Subject	Sregey Varbanov, Assist. Prof.	New Bulgarian University	120
Linear Algebra	Valentin Brimkov, Assoc. Prof. Ph.D.	Fairmont State University, Fairmont, West Virginia, USЬ	90
Modern geometry	Valentin Brimkov, Assoc. Prof. Ph.D.	State University of New York, Buffalo State College, Buffalo, New York, USA	135
Calculus III	Valentin Brimkov, Assoc. Prof. Ph.D.	State University of New York, Buffalo State College, Buffalo, New York, USA	45
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	15
Informatik I	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	30
Informatik III	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	60
College Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	90
PreCalculus Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	90
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Svetoslav Markov, Prof, DSc Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Game theory	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Optimal control	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Applications of computer algebra systems in biological and medical investigations	Neli Dimitrova, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Mathematical modeling in biology and medicine	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematical modeling in biology	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	30
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University, FMI	45
Mathematical Analysis 1	Johan Davidov, Prof., DSc	University of Veliko Tărnovo	45
Mathematics	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	225
Complex nalysis	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	60
Complex Analysis	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Methodology of Extracuricular work	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	30
Mathematics for foreign students (in English)	Valentin Hristov, Asso. Prof., PhD	Technical University – Varna	60
Mathematics for foreign students (in English)	Georgi Dimkov, Assist. Prof., PhD	Technical University – Varna	60
Calculus	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	90
Mathematics	Michail Kaschiev, Prof. DSci	South-West University of Blagoevgrad	45
Calculus I	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Real Functions	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Differential Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	35
Analytic Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	20
College Algebra	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	60
Calculus I	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	60
Calculus II	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	60
Calculus III	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	60
Advanced topics in Topology	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Artificial Intelligence	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	90

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Functional Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	75
Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	30
Knowledge Bases	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	60
Fundamentals of Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45
Information theory	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	30
Probability and statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Applied statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Object Oriented Ptogramming	Lasko Laskov, Phd student	New Bulgarian University	30
C++	Lasko Laskov, Phd student	New Bulgarian University	60
Algorithms and Data Structures	Lasko Laskov, Phd student	New Bulgarian University	30
Web technologies	P. Stanchev, Prof.D. Sc.	SU “St.K.Ohridski”	45
Informatics (for nat. Science students)	I. Koychev, Assoc. Prof. Dr.	SU “St.K.Ohridski”	30
Algorithms and data structures	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	75
Informatics	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	40
Distributed applications	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	50
Programming	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	54
Web-based programming	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	40
Information modeling	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	20
ASP.NET programming	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	30
Working with computer	M.Staneva, Research fellow	New Bulgarian University	30
Internet	M.Staneva, Research fellow	New Bulgarian University	30
Computer Skills	M.Staneva, Research fellow	New Bulgarian University	30
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Synthesis and Analysis of Algorithms	Petar Milanov, Senior Researcher, Ph.D	South-West University, Blagoevgrad	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Linear Algebra (in English)	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Differential Equations	Assen Donchev, Prof., D.Sc.	University of Michigan	60
Calculus 4	Julian Revalski, Prof., D.Sc.	University of French Antilles	60
Variation Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	25
Mathematical Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	120
Mathematical Analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	Sofia University	75
Mathematical Foundations of Databases	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	30
Econometrics	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	45
Operational Research	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	30
Neural Networks	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	30
Web Programming	Emil Kelevedjiev, Researcher	NBU, Sofia	30
Applied General Equilibrium	Tsvetomir Tsachev, Senior Researcher, Ph.D.	University of Sofia	45
Intermediate Statistics	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Convex analysis and Optimization	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Numerical methods of Optimization	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	45
Convex Analysis	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	50
Differential Equations	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Mexico	50
Linear Algebra (in English)	Peter Kenderov, Academician; Prof. D.Sc.	AUBG	60
Precalculus (in English)	Peter Kenderov, Academician; Prof. D.Sc.	AUBG	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Game Theory and Equilibrium	Julian Revalski, Prof., D.Sc.	University of French Antilles	40
Functional Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	40
Calculus 2	Julian Revalski, Prof., D.Sc.	University of French Antilles	45
Theory of Matroids	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	30
Introduction to Informatics	Petar Milanov, Senior Researcher, Ph.D	South-West Univ., Blagoevgrad	30
Game Theory	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	60
Mathematical Programming	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	120
Programming in Prolog	Dimiter Dobrev, mathematician	Sofia University	30
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Foundations of mathematics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Elements of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	60
The Middle age and modernity - specialized class	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	30
The Medieval cultural space - specialized class	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	30
Analysis I	Vladimir Hristov, Senior Research Fellow Dr	Sofia University	35
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	45
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	New Bulgarian University	30
Analysis III	Georgi Iliev, Senior Research Fellow Dr	Varna Technical University	30
Elementary Mathematics	Georgi Iliev, Senior Research Fellow Dr	Varna Technical University	60
Real analysis	Pencho Petrushev, Professor	University of South Carolina	30
Theory of Approximations	Pencho Petrushev, Professor	University of South Carolina	30
Analysis	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Differential equations	Denka Kutzarova, Senior Research Fellow Dr	University of Illinois Urbana-Champaign	30
Linear algebra	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Transcendental number theory	Ognyan Trifonov, Senior Research Fellow Dr	University of South Carolina	42
Calculus	T. Rangelov, Prof.	New Bulgarian University	30
Geometry	T. Rangelov, Prof.	New Bulgarian University	30
General algebra	G.Popov, Prof.	Universite de Nantes, France	30
Real anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Complex anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Business Mathematics II	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Calculus I	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Linear Algebra and Multivariate	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Calculus for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Differential Equations and Applications for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Graph Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Cryptography	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	New Bulgarian University	90
Mathematical Foundations of Informatics	Ivan Landjev, Prof. DrSci	New Bulgarian University	90
Combinatorics	Ivan Landjev, Prof. DrSci	VTU "St. St. Kiril & Metodi”	45
Complexity of Algorithms	Ivan Landjev, Prof. DrSci	VTU "St. St. Kiril & Metodi”,	45
Number Theory	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Network Security	Nikolai Manev, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	30
Coding Theory, Cryptography and Combinatorics	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	60
Coding Theory and Data Protection	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Number Theory	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Linear Algebra	Emil Kolev, Assoc. Prof. PhD	New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematics	Tsonka Baicheva, Assoc. Prof. PhD	Tech. Univ.-Varna	60
Compressing and archiving of information	Galina Bogdanova, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	40
Discrete Mathematics	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	60
Discrete Structures	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Design and Analysis of Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
Teaching the mathematics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
Mathematics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
Econometrics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Programming langu-ages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Audio-Visual and Information Techno-logies in Education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Transport	30
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Finances	30
Course in mathematics for foreign students	Yordanka Gorcheva, Assistant Prof.	Varna Technical University	30
Probability Theory 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	120
Probability Theory and Mathematical Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	90
Stochastic Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Stochastic Processes 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Branching Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	90
Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	225
Mathematical Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Complex Analysis	L. Mutafchiev, Prof.	American University in Bulgaria	45
Statistics	E. Stoimenova, Assoc. Prof.	EA Dimitar Cenov, Svishtov together with IMI of BAS	12
Stochastic approach in insurance and financial problems	E. Pancheva, Prof.	EA Dimitar Cenov, Svishtov together with IMI of BAS	20
Time Series	V. Stoimenova, Dr	Sofia University, FMI	45
Design of Experiments	V. Stoimenova, Dr	Sofia University, FMI	30
Extremal Processes with Application to Risk Theory	E. Pancheva, Prof.	Natural mathematical faculty of Nish University, Serbia	12
Data Analysis for Process modeling	E. Stoimenova, Assoc. Prof.	Bauhaus University Weimar, Germany	12
Statistical Inference	E. Stoimenova, Assoc. Prof.	Bauhaus University Weimar, Germany	30
Survival Analysis	N. Kolev, Dr	PhD program, WMU, Kalamazoo	60
Copula Theory	N. Kolev, Dr	PhD program, USP, Sao Paulo	60
Introduction to Proba-bility and Statistics	N. Kolev, Dr	Bachelour Program, USP	60
Banah Algebra and Spectral Theory	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	60
Analysis I	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	30
Chapters from Analysis	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Integral of Lebeg	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Mathematical Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Complex Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	45
Differential and Integral Calculus	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	Sofia University	45
Integral of Lebeg	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Topology	Georgi Raikov, Prof., D.Sc.	Catholic University of Chile	30
Mathematical Models of Ecology (optional course)	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Analysis III (Measure Theory and Integration)	Georgi Raikov, Prof., D.Sc.	University of Chile	30
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Software Engineering (XP)	A. Eskenazi, Sen.res	Varna Free University	30
E-commerce	A. Eskenazi, Sen.res	Academy of Economics – Svishtov-IMI	20
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Database systems	Y. Peneva, Sen.res	City University	30
Management information systems	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	City University	30
Introduction to database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Advanced database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Information modelling	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems engineering	Y. Peneva, Sen.res	New Bulgarian University	30
Emerging Database Technologies and Applications	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems	Y. Peneva, Sen.res	Academy of Economics – Svishtov	30
Databases and information	G. Tuparov, Res.ass.	New Bulgarian University	60
Software engineering	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Knowledge bases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Design of client-server information systems	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Functional programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet technologies	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Portal Applications with Oracle Technologies	G. Tuparov, Res.ass.	New Bulgarian University	60
Object Oriented Modeling	G. Tuparov, Res.ass.	New Bulgarian University	90
Programming of Client-Server Information Systems	G. Tuparov, Res.ass.	New Bulgarian University	30
Object Oriented and Distributed Databases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Internet Programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Applications for Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Principles of programming languages	B. Bantchev, Res.Ass.	New Bulgarian University	30
Modern functional programming	B. Bantchev, Res.Ass.	New Bulgarian University	30
Discrete mathematics	Emiliya Saranova, Res.	CTP-Sofia	47
Computer networks and communications	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	45
System analysis and Information modeling	Stoyan Poryazov, Sen. res. PhD	University of Veliko Turnovo	45
Total 2006			**10 822**

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Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Statistics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	180
Finite Mathematics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	90
Differential Equations	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	45
Calculus I	Tatiana Gateva-Ivanova, Sen.-res.fellow II degree	American University in Bulgaria	45
Elementary Linear algebra and Analytical Geometry	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	American University in Bulgaria	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Topics in Abstract Algebra	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	American University in Bulgaria	45
Management Information Sysytems	Alexander Gerov, Assoc. Prof. Ph.D.	New Bulgarian University	30
Mathematical Analysis	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University (METU), Cyprus	60
Discrete Mathematics	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University (METU), Cyprus	45
Algorithms and Complexity	Ventzeslav Valev, Prof. D.Sci.	Middle East Technical University (METU), Cyprus	45
Introduction in Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Data and Algotithms Structure	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Functional Programmingне	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
WWW Technologies	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	30
Web Data Bases	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	30
Object Oriented Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Real Analysis	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	180
Number Theory	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	45
Calculus 3	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	45
Calculus 3	Valentin Brimkov, Assoc. Prof. Ph.D.	University at Buffalo, USA	60
Calculus for Engineers I	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	75
Calculus for Engineers II	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	75
College Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	135
PreCalculus Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	45
GMAT Test Preparation course	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Internet Technologies	Sregey Varbanov, Assist. Prof.	New Bulgarian University	90
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	180
Computer Skills- General Subject	Sregey Varbanov, Assist. Prof.	New Bulgarian University	60
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Svetoslav Markov, Prof DSc Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Game theory	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Optimal control	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Applications of com-puter algebra systems in biological and medical investigations	Neli Dimitrova, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Mathematical modeling in biology and medicine	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	45
Mathematical modeling in biology	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	30
Calculus 1	Johan Davidov, Prof., DSc	Miami (USA), FIU	90
Linear Algebra	Johan Davidov, Prof., DSc	Miami (USA), FIU	45
Mathematics	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	75
Potential heory	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	45
Complex Analysis	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	45
Analysis	Ralitsa Kovacheva, Prof., DSc	UACEG – Sofia	90
Complex Analysis	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Mathematics for foreign students (in English)	Valentin Hristov, Asso. Prof., PhD	Technical University – Varna	60
Mathematics for foreign students (in English)	Georgi Dimkov, Assist. Prof., PhD	Technical University – Varna	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Special course on geometrical methods for solving of fully nonlinear PDE	P.Popivanov, Acad., Prof., D.Sci.	FMI, University of Sofia	30
Elliptic PDE – special course for foreigh students	P.Popivanov, Acad.,Prof., D.Sci.	FMI, University of Sofia	30
Functional Analysis	G.Karadzhov, Prof., D.Sci.	GC University Pakistan, Lahore	60
Finite Mathematics	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Calculus II	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Calculus III	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Precalculus	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Numerical Analysis	Stoyan Nedev, Dr. Sci. Prof.	American University of Blagoevgrad, Bulgaria	40
Differential Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	35
Analytic Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	20
Geometry II	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	15
Business Calculus	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	60
Topology I	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Topology II	Strashimir Popvassilev, PhD Assist. Prof.	University of Louisiana at Lafayette, USA	50
Descriptive Geometry	Velichka Milousheva, Dr. Assist. Prof.	“L. Karavelov” Civil Engineering Higher School, Sofia, Bulgaria	100
Artificial Intelligence	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	90
Functional Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	75
Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	30
Knowledge Bases	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	60
Fundamentals of Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Programming Tools for Building Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45
Information theory	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	30
Probability and statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	60
Applied statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Object Oriented Ptogramming in C++	Lasko Laskov, Phd student	New Bulgarian University	30
Computer Graphics	P. Stanchev, Prof.D. Sc.	SU "St.K.Ohridski"	45
Information Retrieval	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	45
Artificial Intelligence	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	30
Algorithms and data structures	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	75
Informatics	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	40
Distributed applications	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	50
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	54
Web-based programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	40
Information modeling	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	50
ASP.NET programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	30
Automatisation of Administration Management	M.Staneva, Research fellow	New Bulgarian University	30
Computer Skills	M.Staneva, Research fellow	New Bulgarian University	30
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Calculus 1	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Calculus 2	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Mathematical Analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	60
Convexity and Differentiability in Banach Spaces	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Applied General Equilibrium	Tsvetomir Tsachev, Senior Researcher, Ph.D.	University of Sofia	45
Web Programming	Emil Kelevedjiev, Researcher	NBU, Sofia	30
Linear Algebra (in English)	Peter Kenderov, Academician; Prof. D.Sc.	NBU, Sofia	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Operational Research	Peter Kenderov, Academician; Prof. D.Sc.	NBU, Sofia	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	NBU, Sofia	30
Introduction to Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	NBU, Sofia	60
Object-Oriented Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	NBU, Sofia	60
Data Structures	Nikolay Kirov, Assoc.Prof., Ph.D.	NBU, Sofia	60
Optimization in Graph and Nets	Nikolay Kitanov	South-West Univ., Blagoevgrad	30
Discrete Optimization	Nikolay Kitanov	South-West Univ., Blagoevgrad	15
Linear algebra	Assen Donchev, Prof., D.Sc.	University of Michigan	60
Linear algebra	Assen Donchev, Prof., D.Sc.	University of Michigan	60
Variation Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	50
Game Theory and Equilibrium	Julian Revalski, Prof., D.Sc.	University of French Antilles	80
Functional Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	80
Calculus 2	Julian Revalski, Prof., D.Sc.	University of French Antilles	75
Geometry	Julian Revalski, Prof., D.Sc.	University of French Antilles	36
Dynamic programming and stochastic optimal control	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Convex analysis and nonlinear optimization	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Numerical methods of optimization	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Game Theory	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	90
Mathematical Programming	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	120
Introduction to temporal logic	Dimitar P. Guelev, Research Fellow Dr	Sofia University	60
Foundations of mathematics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	120
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University”	120
Foundations of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	120
The Middle age and modernity – specialized class	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
The Medieval cultural space – specialized class	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	30
Analysis I	Vladimir Hristov, Senior Research Fellow Dr	Sofia University	60
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	45
Elementary Mathematics	Georgi Iliev, Senior Research Fellow Dr	Varna Technical University	90
Calculus	T. Rangelov, Prof.	New Bulgarian University	30
Geometry	T. Rangelov, Prof.	New Bulgarian University	30
Linear algebra	G.Popov, Prof.	Universite de Nantes, France	30
General algebra	G.Popov, Prof.	Universite de Nantes, France	30
Real anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Business Mathematics II	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Calculus I	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Calculus for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Precalculus	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Data Security	Stefan Dodunekov, Acad.Prof. DrSc	D. A. Tsenov Academy of Economics	90
Cryptography	Ivan Landjev, Prof. DrSci	New Bulgarian University	90
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Mathematical Foundations of Informatics	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Complexity of Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Graphs and Network Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Coding Theory	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Number Theory	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Coding Theory	Nikolai Manev, Assoc. Prof. PhD	Chounbuk University, Korea	45
Coding Theory, Cryptography and Combinatorics	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	60
Coding Theory and Data Protection	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Number Theory	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Linear Algebra	Emil Kolev, Assoc. Prof. PhD	New Bulgarian University	30
Mathematical Foundations of Informatics	Emil Kolev, Assoc. Prof. PhD	New Bulgarian University	30
Discrete Mathematics	Tsonka Baicheva, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	15
Coding Theory and Data Protection	Tsonka Baicheva, Assoc. Prof. PhD	Bourgas Free University	15
Mathematics	Tsonka Baicheva, Assoc. Prof. PhD	Tech. Univ.-Varna	90
Contemporary platforms for databases	Galina Bogdanova, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi",	20
Compressing and archiving of information	Galina Bogdanova, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	20
Databases	Galina Bogdanova, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	100
Discrete Mathematics	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	60
Discrete Structures	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Design and Analysis of Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
Teaching the mathe-matics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University “St. Kliment Ohridski”	30
Mathematics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
Econometrics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Programming languages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30
Audio-Visual and Information Techno-logies in Education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University “St. Kliment Ohridski	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Finances	30
Methodology and educational research	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
Didactical tools	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
Didactics of mathematics	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
ICT in education	Toni Chehlarova, Assoc. Prof.	Plovdiv University	20
Course in mathematics for foreign students	Yordanka Gorcheva, Assistant Prof.	Varna Technical University	30
Probability Theory 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Probability Theory and Mathematical Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	45
Stochastic Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Stochastic Processes 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	45
Branching Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	45
Biostatistics	R. Gueorguieva, Assoc. Prof.	Sofia University, FMI	30
Statistics	L. Mutafchiev, Prof.	Ameriacan University in Bulgaria	270
Mathematical Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	45
Stochastic Modeling of Extremal Events	E. Pancheva, Prof.	Sofia University, FMI	10
Statistics for research	E. Stoimenova, Assoc. Prof.	IMI of BAS	40
IT in Mathematical Education	E. Stoimenova, Assoc. Prof.	Sofia University, FMI	30
Time Series	V. Stoimenova, Dr	Sofia University, FMI	90
Design of Experiments	V. Stoimenova, Dr	Sofia University, FMI	45
Actuarial Mathematics 2	V. Kaishev, Assoc. Prof.	City University of London	60
Stat. Prob. models in Insurance	V. Kaishev, Assoc. Prof.	City University of London	72
Risk Analysis	N. Kolev, Dr	PhD program, IME – USP, Sao Paulo	60
Applied Statistics	N. Kolev, Dr	FEA – USP, Sao Paulo	60
Banah Algebra and Spectral Theory	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	60
Analysis I	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	30
Chapters from Analysis	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Integral of Lebeg	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematical Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Complex Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	45
Differential and Integral Calculus	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	Sofia University	45
Integral of Lebeg	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Georgi Raikov, Prof., D.Sc.	Catholic University of Chile	30
Differential Equations (for Engineers)	Georgi Raikov, Prof., D.Sc.	Catholic University of Chile	30
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	45
Software Engineering (XP)	A. Eskenazi, Sen.res	Varna Free University	30
E-commerce	A. Eskenazi, Sen.res	Academy of Economics – Svishtov-IMI	20
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Cost estimation & metrics	A. Eskenazi, Sen.res	Stevens - SU	15
Database systems	Y. Peneva, Sen.res	City University	30
Management information systems	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	City University	30
Introduction to database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Advanced database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Information modelling	Y. Peneva, Sen.res	New Bulgarian University	30
Emerging Database Technologies and Applications	Y. Peneva, Sen.res	New Bulgarian University	30
Information systems	Y. Peneva, Sen.res	Academy of Economics – Svishtov	30
Marketing in IT field	N. Maneva, Sen.res	New Bulgarian University	30
Management of IT company	N. Maneva, Sen.res	New Bulgarian University	30
Client-server information systems	G. Tuparov, Res.ass.	New Bulgarian University	30
OO modeling with UML	G. Tuparov, Res.ass.	New Bulgarian University	60
Research directions in DBMS	G. Tuparov, Res.ass.	New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Databases and information	G. Tuparov, Res.ass.	New Bulgarian University	60
Software engineering	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Knowledge bases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Design of client-server information systems	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Functional programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet technologies	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Portal Applications with Oracle Technologies	G. Tuparov, Res.ass.	New Bulgarian University	60
Object Oriented Modeling	G. Tuparov, Res.ass.	New Bulgarian University	90
Programming of Client-Server Information Systems	G. Tuparov, Res.ass.	New Bulgarian University	30
Object Oriented and Distributed Databases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet Programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Applications for Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Technologies for Development Web-based Applications	R. Radev, Sen.res	New Bulgarian University	30
Design of Web-based Applications	R. Radev, Sen.res	New Bulgarian University	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Principles of prog-ramming languages	B. Bantchev, Res.Ass.	New Bulgarian University	30
Modern functional programming	B. Bantchev, Res.Ass.	New Bulgarian University	30
Discrete mathematics	Emiliya Saranova, Researcher	CTP-Sofia	47

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
High Mathematics II – Queuing theory	Emiliya Saranova, Researcher	CTP-Sofia	30
Total 2007			**11 579**

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Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Statistics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	180
Finite Mathematics	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	45
Differential Equations	Valentin Iliev, Sen.-research fellow II degree	American University in Bulgaria	45
Calculus III	Tatiana Gateva-Ivanova, Sen.-research fellow II deg.	American University in Bulgaria	45
Elementary Linear algebra and Analytical Geometry	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	American University in Bulgaria	45
Abstract Algebra	Tatiana Gateva-Ivanova, Sen.-research fellow II degree	African University of Science and Technology (AUST), Abuja, Nigeria	45
Calculus I	Hristo Iliev, Research fellow II degree	American University in Bulgaria	135
Introductory Mathematics	Hristo Iliev, Research fellow II degree	American University in Bulgaria	45
Management Information Sysytems	Alexander Gerov, Assoc. Prof. Ph.D.	New Bulgarian University	30
Artificial Intelligence	Ventzeslav Valev, Prof. D.Sci.	Wroclaw Technical University, Poland	60
Combinatory Algorithms	Ventzeslav Valev, Prof. D.Sci.	Wroclaw Technical University, Poland	45
Introduction in Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Data and Algotithms Structure	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
Functional Programmingне	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	45
WWW Technologies	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University “St. Kliment Ochridsky”	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Web Data Bases	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	30
Object Oriented Programming	Alexander Grigorov, Assoc. Prof. Ph.D.	Sofia University "St. Kliment Ochridsky"	45
Real Analysis	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	90
Number Theory	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	45
Linear Algebra	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	90
Calculus 2	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	90
Calculus for Engineers I	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	50
Calculus for Engineers II	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	50
Calculus –Analytic Geometry	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	105
Matrix Theory	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	65
College Algebra	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Florida Atlantic University, USA	60
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	120
Internet Technologies	Sregey Varbanov, Assist. Prof.	New Bulgarian University	30
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	30
Computer skils – general subject	Sregey Varbanov, Assist. Prof.	New Bulgarian University	90
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Svetoslav Markov, Prof, DSc Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Game theory	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45
Optimal control	Mikhail Krastanov, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Applications of computer algebra systems in biological and medical investigations	Neli Dimitrova, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	60
Mathematical modeling in biology and medicine	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	45
Mathematical modeling in biology	Svetoslav Markov, Prof, DSc	Fac. Math. Inf., Sofia University	30
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University, FMI	30
Calculus 1	Johan Davidov, Prof., DSc	Miami (USA), FIU	45
College Algebra	Johan Davidov, Prof., DSc	Miami (USA), FIU	90
Introduction to smooth manifolds	Johan Davidov, Prof., DSc	Miami (USA), FIU	45
Mathematical Analysis 2	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	75
Complex Analysis	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	45
Potential heory	Ralitsa Kovacheva, Prof., DSc	TU – Sofia	60
Complex Analysis	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Number Theory	Oleg Muskarov, Prof., DSc	South-West University, Blagoevgrad	45
Real Analysis	G. Karadzhov, Prof., D.Sci.	GC University Pakistan, Lahore	60
Differential Equations	E.Horozov, Corr.member BAS, Prof. D.Sci.	FMI, University of Sofia	45
Mathematical Analysis	E.Horozov, Corr.member BAS, Prof. D.Sci.	FMI, University of Sofia	30
Roemanian surfaces	E.Horozov, Corr.member BAS, Prof. D.Sci.	FMI, University of Sofia	45
Dynamic Systems and the theory of numbers Part I	E.Horozov, Corr.member BAS, Prof. D.Sci.	FMI, University of Sofia	30
Dynamic Systems and the theory of numbers Part II	E.Horozov, Corr.member BAS, Prof. D.Sci.	FMI, University of Sofia	30
Differential Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	110
Analytic Geometry	Georgi Ganchev, Dr. Assoc. Prof.	Shoumen University, Bulgaria	20
College Algebra	Strashimir Popvassilev, PhD Assist. Prof.	University of Southern Mississippy, Gulf Coast, USA	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Modern Algebra I	Strashimir Popvassilev, PhD Assist. Prof.	University of Southern Mississippy, Gulf Coast, USA	60
Business Calculus	Strashimir Popvassilev, PhD Assist. Prof.	University of Southern Mississippy, Gulf Coast, USA	60
Pre-calculus	Strashimir Popvassilev, PhD Assist. Prof.	The City College of New York, City University of New York, USA	50
Calculus II	Strashimir Popvassilev, PhD Assist. Prof.	The City College of New York, City University of New York, USA	150
Descriptive Geometry	Velichka Milousheva, Dr. Assist. Prof.	"L. Karavelov" Civil Engineering Higher School, Sofia, Bulgaria	120
Artificial Intelligence	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	90
Functional Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	30
Expert Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	30
Knowledge Bases	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45
Fundamentals of Programming	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45
Introduction to Knowledge Based Systems	Maria Nisheva, Assoc. Prof., PhD	Sofia University, Mathematics Faculty	45
Information theory	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	30
Probability and statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	60
Applied statistics	Plamen Mateev, Assoc. Prof. PhD	Sofia University, Mathematics Faculty	45
Computer games design	P. Stanchev, Prof.D. Sc.	SU "St.K.Ohridski"	45
Algorithms and data structures	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	75
Informatics	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	40
Distributed applications	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	50
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	54
Web-based programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	40
Information modeling	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	50
Information Retrieval	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	45
Artificial Intelligence	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	30
Artificial Intelligence	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	45
Computer Skills	M.Staneva, Research fellow	New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Calculus 1	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Calculus 2	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Mathematical Analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	60
Applied General Equilibrium	Tsvetomir Tsachev, Senior Researcher, Ph.D.	University of Sofia	45
Web Programming	Emil Kelevedjiev, Researcher	New Bulgarian University	30
Web Projects	Emil Kelevedjiev, Researcher	New Bulgarian University	30
Algorithms	Emil Kelevedjiev, Researcher	AUBG	30
Linear Algebra for Chemists (in English)	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	60
Operational Research	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	New Bulgarian University	30
Mathematical Models in Economy	Maxim Todorov, Senior Researcher, D.Sc.	University for Food Industry, Plovdiv	50
Introduction to Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Object-Oriented Programming	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Data Structures	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	60
Graph Theory	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	15
Discrete Optimization	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	15
Variation Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	50
Game Theory	Julian Revalski, Prof., D.Sc.	University of French Antilles	80
Functional Analysis	Julian Revalski, Prof., D.Sc.	University of French Antilles	80
Geometry	Julian Revalski, Prof., D.Sc.	University of French Antilles	72
Mathematical Analysis	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Мексико	100
Convex Analysis	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Мексико	100
Differential Equations	Maxim Todorov, Senior Researcher, D.Sc.	UDLA, Puebla, Мексико	100

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Intermediate Statistics	Darinka Dencheva, Researcher, Ph.D.	Stevens Institute of Technology	56
Numerical Analysis	Elza Farkhi, Researcher, Ph.D.	Tel-Aviv University	60
Ordinary Differential Equations	Elza Farkhi, Researcher, Ph.D.	Tel-Aviv University	60
Linear Algebra for Chemists	Elza Farkhi, Researcher, Ph.D.	Tel-Aviv University	60
Game Theory	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	150
Mathematical Programming	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	60
Introduction to temporal logic	Dimitar P. Guelev, Research Fellow Dr	Sofia University	60
Philosophy of mathematics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Logical models in linguistics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	30
Foundations of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	30
Elements of logic	Vladimir Sotirov, Senior Research Fellow Dr	New Bulgarian University	30
Programming in Prolog	Dimiter Dobrev, mathematician	Sofia University	30
The Middle age and modernity - specialized class	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	30
The Medieval cultural space - specialized class	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	30
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	45
Elementary Differential Equations	Kamen Ivanov, Professor	University of South Carolina	45
Calculus I and II	Vladimir Hristov, Associate professor	Sofia University	120
Object oriented programming	Georgi Iliev, Senior Research Fellow Dr	Varna Technical University	30
Analysis	Georgi Iliev, Senior Research Fellow Dr	New Bulgarian University	24
Mathematical methods for network optimization	Georgi Iliev, Senior Research Fellow Dr	New Bulgarian University	24

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Calculus	T. Rangelov, Prof.	New Bulgarian University	30
Geometry	T. Rangelov, Prof.	New Bulgarian University	30
Linear algebra	G.Popov, Prof.	Universite de Nantes, France	30
General algebra	G.Popov, Prof.	Universite de Nantes, France	30
Real anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Complex anaysis	G.Popov, Prof.	Universite de Nantes, France	30
Calculus I	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Linear Algebra and Multivariate	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Calculus for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	40
Differential Equations and Applications for Engineers	V.Covachev, Assoc.Prof.	Sultan Qaboos University, Muscat	30
Cryptography	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Coding Theory and Data Protection	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Complexity of Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Graphs and Network Algorithms	Ivan Landjev, Prof. DrSci	New Bulgarian University	60
Coding Theory	Ivan Landjev, Prof. DrSci	New Bulgarian University	30
Number Theory	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	90
Number Theory with Algorithms	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Coding Theory, Cryptography and Combinatorics	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	60
Coding Theory and Data Protection	Peter Boyvalenkov, Assoc. Prof. DrSci	South-West University - Blagoevgrad	45
Database Management Systems	Iliya Bouyukliev, Assoc. Prof. DrSci	Veliko Tarnovo University	60
Mathematical Foundations of Informatics	Emil Kolev, Assoc. Prof. PhD	New Bulgarian University	30
Compressing and archiving of information	Galina Bogdanova, Assoc. Prof. PhD	VTU "St. St. Kiril & Metodi"	10
Discrete Mathematics	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	60
Discrete Structures	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Design and Analysis of Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Permutation groups	Silvia Boumova, Ass.Prof. PhD	FMI - Sofia University	30
Discrete Mathematics	Yuri Borrisov, PhD	FMI - Sofia University	60
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	30
Teaching the mathematics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	30
Mathematics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
Econometrics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	120
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Programming languages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Audio-Visual and Information Technologies in Education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	30
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Finances	30
Methodology and educational research	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
Didactical tools	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
Didactics of mathematics	Toni Chehlarova, Assoc. Prof.	Plovdiv University	30
ICT in education	Toni Chehlarova, Assoc. Prof.	Plovdiv University	20
Course in mathematics for foreign students	Yordanka Gorcheva, Assistant Prof.	Varna Technical University	30
Probability Theory 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Probability Theory and Mathematical Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	90
Random Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Stochastic Processes 2	M. Bojkova, Assoc. Prof.	Sofia University, FMI	45
Branching Processes	M. Bojkova, Assoc. Prof.	Sofia University, FMI	45
Introduction in Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	30
Decision making theory	M. Bojkova, Assoc. Prof.	Sofia University, FMI	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Biostatistics	R. Gueorguieva, Assoc. Prof.	Sofia University, FMI	30
Biostatistics	R. Gueorguieva, Assoc. Prof.	Joint programme of NBU and IMI of BAS	30
Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	190
Mathematical Statistics	L. Mutafchiev, Prof.	American University in Bulgaria	90
Stochastic Methods of Research	L. Mutafchiev, Prof.	American University in Bulgaria	45
Statistical inference	E. Stoimenova, Assoc. Prof.	Joint programme of NBU and IMI of BAS	30
IT in Mathematical Education	E. Stoimenova, Assoc. Prof.	Sofia University, FMI	15
Time Series	V. Stoimenova, Dr	Sofia University, FMI	45
Design of Experiments	V. Stoimenova, Dr	Sofia University, FMI	30
Probability Theory and Mathematical Statistics	V. Stoimenova, Dr	Sofia University, FMI	45
Introduction to probability and mathematical statistics	V. Stoimenova, Dr	Sofia University, FMI	30
Mortality Models	V. Stoimenova, Dr	Sofia University, FMI	30
Contingencies	V. Kaishev, Assoc. Prof.	City University of London	50
Statistics and Probabilistic Modelling in Insurance	V. Kaishev, Assoc. Prof.	City University of London	70
Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Copula Theory and Applications	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Probability theory and Statistics	V. Stefanov, Assoc. Prof.	University of Western Australia	100
Linear toplogical Spaces	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	60
Measure Theory and Integration	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	30
Fixed point Theorems and Application	Stanimir Troyansky, Academician, D.Sci	Kommutence University, Madrid	10
Chapters from Analysis	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Integral of Lebeg	Gurko Balikov, Senior Researcher, D.Sc.	Sofia University	45
Mathematical Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Complex Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	University of Shoumen	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Differential and Integral Calculus	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Functional Analysis	Kiril Kirchev, Prof., D.Sc.	Sofia University	45
Integral of Lebeg	Kiril Kirchev, Prof., D.Sc.	Sofia University	30
Differential Equations (for Mathematicians)	Georgi Raikov, Prof., D.Sc.	Catholic University of Chile	30
Calculus III (for Economists)	Georgi Raikov, Prof., D.Sc.	Catholic University of Chile	30
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	75
Software Engineering (XP)	A. Eskenazi, Sen.res	Varna Free University	30
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	60
Database systems	Y. Peneva, Sen.res	City University	30
Management information systems	Y. Peneva, Sen.res	City University	30
Introduction to data processing	Y. Peneva, Sen.res	City University	30
Introduction to database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Advanced database systems	Y. Peneva, Sen.res	New Bulgarian University	30
Information modelling	Y. Peneva, Sen.res	New Bulgarian University	30
Emerging Database Technologies and Applications	Y. Peneva, Sen.res	New Bulgarian University	30
Client-server information systems	G. Tuparov, Res.ass.	New Bulgarian University	30
OO modeling with UML	G. Tuparov, Res.ass.	New Bulgarian University	60
Research directions in DBMS	G. Tuparov, Res.ass.	New Bulgarian University	30
Databases and information	G. Tuparov, Res.ass.	New Bulgarian University	60
Software engineering	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Knowledge bases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Design of client-server information systems	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Functional programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet technologies	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Portal Applications with Oracle Technologies	G. Tuparov, Res.ass.	New Bulgarian University	60
Object Oriented and Distributed Databases	G. Tuparov, Res.ass.	South West University, Blagoevgrad	30
Internet Programming	G. Tuparov, Res.ass.	South West University, Blagoevgrad	45
Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Applications for Distributed Data Bases	R. Radev, Sen.res	New Bulgarian University	30
Technologies for Development Web-based Applications	R. Radev, Sen.res	New Bulgarian University	30
Design of Web-based Applications	R. Radev, Sen.res	New Bulgarian University	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Vector computer graphics	B. Bantchev, Res.Ass.	Sofia University	30
Principles of programming languages	B. Bantchev, Res.Ass.	New Bulgarian University	30
Modern functional programming	B. Bantchev, Res.Ass.	New Bulgarian University	30
Internet programming with REBOL	B. Bantchev, Res.Ass.	New Bulgarian University	30
Discrete mathematics	Emiliya Saranova, Researcher	CTP-Sofia	47
High Mathematics II – Queuing theory	Emiliya Saranova, Researcher a	CTP-Sofia	30
Total			**11 622**

Totally 56 530

9.1.2. Practices and seminars:

Year 2004

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Fundamentals of Computer Technics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	15
Theoretical informatics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	15
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	60
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	45
Mathematica – Adva-nced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Applied mathematics (math. optimization)	Stanislava Stoilova, Dr.	South-West University of Blagoevgrad	135
Applied mathematics (numerical methods)	Stanislava Stoilova, Dr.	South-West University of Blagoevgrad	272
Mathematical modeling	Stanislava Stoilova, Dr.	South-West University of Blagoevgrad	30
Informatics	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	80
Programming	A.Iliev Assoc. Prof. Dr.	PU "Paisii Hilendarski"	12
Algebra	Peter Kenderov, Acad.; D.Sc.	New Bulgarian University	30
Linear Algebra	Peter Kenderov, Acad.., D.Sc.	New Bulgarian University	60
Chaotic Dynamical Systems	Nikolay Kirov, Assoc.Prof., Ph.D.	Sofia University	30
Introduction to programming C++	Nikolay Kirov, Assoc.Prof., Ph.D.	New Bulgarian University	30
Programming in C++	Emil Kelevedjiev, Researcher	BAS - IMI	45
Object-Oriented Programming Practice	Emil Kelevedjiev, Researcher	New Bulgarian University	60
Optimization Algorithms in Graphs and Nets	Nikolay Kitanov	South-West Univ., Blagoevgrad	60
Mathematical Logic	Nikolay Kitanov	South-West Univ., Blagoevgrad	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Artificial Intelligence	Dimiter Dobrev, mathematician	New Bulgarian University	90
Logic programming	Dimiter Dobrev, mathematician	Sofia University	60
Introduction to language theory	I. Derzhanski, PhD Assoc. Prof.	SU "St. Kl. Ohridski"	150
Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	30
School Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	Classic lyceum "St. Konstantin – Kiril"	30
The Middle age and modernity – seminar	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	15
The Middle age and modernity – seminar	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	15
Numerical methods	Veselin Kyurkchiev, Mathematician	Sofia University	60
Linear algebra and analytic geometry	Veselin Kyurkchiev, Mathematician	Sofia University	90
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	90
Coding Theory and Data Protection	Tsonka Baicheva, Assoc. Prof. PhD	Bourgas Free University	15
Seminar on Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Identification and support of mathematically gifted students	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	150
Teaching the mathematics curriculum for the secondary school	Sava Grozdev, Prof. DSc	Sofia University "St. Kliment Ohridski"	150
Mathematics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	360
Econometrics	Sava Grozdev, Prof. DSc	Higher School in Finances and Insurance	3620
ICT in education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	150
Programming languages and environments for education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	150

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Audio-Visual and Information Techno-logies in Education	Evgenia Sendova, Assoc. Prof. Dr	Sofia University "St. Kliment Ohridski	150
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Transport	90
Higher Mathematics	Borislav Lazarov, Assoc. Prof.	Higher School of Finances	90
Methodology and educational research	Toni Chehlarova, Assoc. Prof.	Plovdiv University	60
Didactical tools	Toni Chehlarova, Assoc. Prof.	Plovdiv University	60
Risk Theory	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Applied Statistics	N. Kolev, Dr	USP, Sao Paulo, Brazil	60
Actuarial Mathematics 2	V. Kaishev, Assoc. Prof.	City University of London	60
Stat. Prob. models in Insurance	V. Kaishev, Assoc. Prof.	City University of London	72
Software Engineering (XP)	A. Eskenazi, Sen.res	University of Economics, Varna	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Vector computer graphics	B. Bantchev, Res.Ass.	Sofia University	
Actuarial mathematics	S. Kostova, Math.	Sofia University	30
Computer networks and communications	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	15
Informatics -1	Emiliya Saranova, Researcher	CTP-Sofia	402
Informatics- 2	Emiliya Saranova, Researcher	CTP-Sofia	75
High mathematics	Emiliya Saranova, Researcher	CTP-Sofia	90
Expert systems	Maria Nisheva, Assos. Prof. PhD	SU, FMI	30
Total			**7 953**

Year 2005

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Fundamentals of Computer Technics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	15
Theoretical informatics	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	90
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	45
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Web technologies	P. Stanchev, Prof.D. Sc.	SU "St.K.Ohridski"	30
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	12
Informatics	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	80
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Object-Oriented Programming-part 2	G. Vragov, Research fellow	Technical University – Branch Plovdiv	30
Linear Algebra	Peter Kenderov, Academician; Prof. D.Sc.	NBU, Sofia	30
Programming in C++	Emil Kelevedjiev, Researcher	NBU, Sofia	90
Data Structures	Emil Kelevedjiev, Researcher	NBU, Sofia	60
Computer Graphics	Emil Kelevedjiev, Researcher	NBU, Sofia	30
Optimization Algorithms in Graphs and Nets	Nikolay Kitanov	South-West Univ., Blagoevgrad	120
Graph Theory	Nikolay Kitanov	South-West Univ., Blagoevgrad	45
Practical course of logic programming	Dimiter Dobrev, mathematician	Sofia University	60
Artificial Intelligence	Dimiter Dobrev, mathematician	New Bulgarian University	90
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
The Middle age and modernity – seminar	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	15
The Medieval cultural space – seminar	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	60
School Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	Classic lyceum “St. Konstantin – Kiril”	60
Linear algebra and analytic geometry	Veselin Kyurkchiev, mathematician	Sofia University	60
Analysis I	Vladimir Hristov, Senior Research Fellow Dr	Sofia University	35
Analysis	Vladimir Hristov, Senior Research Fellow Dr	Library and Information technology University	175
Analysis I	Borislav Draganov, Researcher	Sofia University	360
Analysis II	Borislav Draganov, Researcher	Sofia University	180
Analysis	Borislav Draganov, Researcher	Sofia University	60
Coding Theory and Data Protection	Tsonka Baicheva, Assoc. Prof. PhD	Bourgas Free University	15
Seminar on Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Mathematics	Silvia Boumova, Ass.Prof. PhD	American Collage - Sofia	1008
Databases	Todor Todorov, Researcher	VTU "St. St. Kiril & Metodi"	30
Probability Theory and Mathematical Statistics	V. Stoimenova, Dr	Sofia University, FMI	270
Stochastic Processes	V. Stoimenova, Dr	Sofia University, FMI	30
Stochastic Processes 2	V. Stoimenova, Dr	Sofia University, FMI	30
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Actuarial mathematics	S. Kostova, Math.	Sofia University	30
Expert systems	Maria Nisheva, Assos. Prof. PhD	SU, FMI	30
Computer networks and communications	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	15

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
System analysis and Information modeling	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	15
Informatics -1	Emiliya Saranova, Researcher	CTP-Sofia	212
High mathematics	Emiliya Saranova, Researcher	CTP-Sofia	44
Total			**3 941**

Year 2006

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Differential and Integral Calculus	Hristo Iliev, Research fellow II degree	Sofia University	45
Informatik I	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	15
Informatik III	Daniela Nikolova-Popova, Assoc. Prof. Ph.D.	Technical University, Sofia	30
Programming in Internet	Sregey Varbanov, Assist. Prof.	New Bulgarian University	30
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Software for Scientific Calculations	Margarita Spiridonova, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Numerical methods	Ivan Georgiev, Dr.	FMI, Sofia University	56
Descriptive Geometry	Velichka Milousheva, Dr. Assist. Prof.	“L. Karavelov” Civil Engineering Higher School, Sofia, Bulgaria	260
Web technologies (for nat. Science students)	P. Stanchev, Prof.D. Sc.	SU “St.K.Ohridski”	30
Intr. To Informatics (for humanitarian students)	I. Koychev, Assoc. Prof. Dr.	SU “St.K.Ohridski”	30
Informatics (for nat. Science students)	I. Koychev, Assoc. Prof. Dr.	SU “St.K.Ohridski”	30
Informatics	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	80
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	12

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
ASP.NET programming	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	10
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Object-Oriented Programming-part 2	G. Vragov, Research fellow	Technical University – Branch Plovdiv	30
Programming in C++	Emil Kelevedjiev, Researcher	New Bulgarian University	60
Data Structures	Emil Kelevedjiev, Researcher	New Bulgarian University	30
Optimization Algorithms in Graphs and Nets	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	90
Mathematical Programming	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	90
Graph Theory	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	30
Computer Graphics	Emil Kelevedjiev, Researcher	New Bulgarian University	30
Mathematics – Part I	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	60
Artificial Intelligence	Dimiter Dobrev, mathematician	New Bulgarian University	60
Logic programming	Dimiter Dobrev, mathematician	Sofia University	60
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	60
Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	120
Linear algebra and analytic geometry	Veselin Kyurkchiev, mathematician	Sofia University	60
Numerical methods	Veselin Kyurkchiev, mathematician	Sofia University	60
Analysis I	Vladimir Hristov, Senior Research Fellow Dr	Sofia University	35
Analysis	Vladimir Hristov, Senior Research Fellow Dr	Library and Information technology University	175
Analysis I	Borislav Draganov, Researcher	Sofia University	180
Analysis II	Borislav Draganov, Researcher	Sofia University	120
Number Theory	Peter Boyvalenkov, Assoc. Prof. DrS	South-West University - Blagoevgrad	15
Seminar on Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Mathematics	Silvia Boumova, Ass.Prof. PhD	American Collage - Sofia	544
Programming with JAVA	Todor Todorov, Researcher	VTU "St. St. Kiril & Metodi"	45
Web Programming	Todor Todorov, Researcher	Tech. Univ.-Varna	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Seminar in Probability Theory and Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Probability Theory and Mathematical Statistics	V. Stoimenova, Dr	Sofia University, FMI	270
Stochastic Processes	V. Stoimenova, Dr	Sofia University, FMI	30
Stochastic Processes 2	V. Stoimenova, Dr	Sofia University, FMI	30
Design of experiments	V. Stoimenova, Dr	Sofia University, FMI	30
Practice in Statistics via R	N. Daskalova, Mathematician	Sofia University, FMI	90
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Actuarial mathematics	S. Kostova, Math.	Sofia University	30
Informatics -1	Emiliya Saranova, Researcher	CTP-Sofia	362
Basis of Informatics	Emiliya Saranova, Researcher	CTP-Sofia	132
Computer networks and communications	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	15
System analysis and Information modeling	Stoyan Poryazov, Sen. Res. PhD	University of Veliko Turnovo	15
ICT in education	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
Workshops with teachers-to-be in the primary school international students;	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
Total			**4 101**

Year 2007

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Differential Equations	Hristo Iliev, Res. fellow II deg	Sofia University	90
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University "St. Kliment Ochridsky"	30
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematical Modeling in Biology	Neli Dimitrova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	15
Mathematica – Practical Introduction	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematica – Advanced Programming	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Reliable Computing	Evgenija D. Popova, Assoc. Prof., PhD	Fac. Math. Inf., Sofia University	30
Mathematical Modeling in Biology	Neli Dimitrova, Assoc. Prof, PhD	Fac. Math. Inf., Sofia University	15
Summer program “Awesomemath”	Oleg Muskarov, Prof., DSc	University of Texas, Dallas	40
Short course in invariant metrics and distances	Nikolaj Nikolov, Asso. Prof., PhD	Toulouse France	8
Numerical methods	Ivan Georgiev, Dr.	FMI, Sofia University	56
Descriptive Geometry	Velichka Milousheva, Dr. Assist. Prof.	“L. Karavelov” Civil Engineering Higher School, Sofia, Bulgaria	290
Computer Graphics	P. Stanchev, Prof.D. Sc.	SU "St.K.Ohridski"	30
Intr. To Informatics (for humanitarian students)	I. Koychev, Assoc. Prof. Dr.	SU “St.K.Ohridski”	30
Information Retrieval	I. Koychev, Assoc. Prof. Dr.	SU "St.K.Ohridski"	30
Informatics	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	80
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	12
ASP.NET programming	A.Iliev, Assoc. Prof. Dr.	PU “Paisii Hilendarski”	10
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Functional analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	30
Programming in C++	Emil Kelevedjiev, Researcher	New Bulgarian University	60
Data Structures	Emil Kelevedjiev, Researcher	New Bulgarian University	30
Optimization Algorithms in Graphs and Nets	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	90
Discrete Optimization	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	15
Mathematical Logic	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	60
Mathematical Analysis	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	45
Game Theory	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mathematical Programming	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	60
Introduction to temporal logic	Dimitar P. Guelev, Research Fellow Dr	Sofia University	15
Non-classical logics	Vladimir Sotirov, Senior Research Fellow Dr	Sofia University	120
Logic programming	Dimiter Dobrev, mathematician	Sofia University	60
Artificial Intelligence	Dimiter Dobrev, mathematician	New Bulgarian University	60
Seminar on practical ethnology and folklore studies	K. Rangochev, PhD Ass. Prof.	SU "St. Kl. Ohridski"	120
Design and Analyz of Algorithms – seminar	M.Markov, MSci	SU "St. Kl. Ohridski"	30
Computer graphics	Andrey Andreev, Senior Research Fellow Dr	Sofia University	30
Linear algebra and analytic geometry	Veselin Kyurkchiev, Mathematician	Sofia University	30
Numerical methods	Veselin Kyurkchiev, Mathematician	Sofia University	60
Analysis I	Borislav Draganov, Researcher	Sofia University	300
Analysis II	Borislav Draganov, Researcher	Sofia University	120
Analysis	Borislav Draganov, Researcher	Sofia University	30
Seminar on Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45
Mathematics	Silvia Boumova, Ass.Prof. PhD	American Collage - Sofia	430
Mentoring pre-service teachers in mathematics in a class setting	Toni Chehlarova, Assoc. Prof.	Plovdiv University	100
Didactical Practice	Toni Chehlarova, Assoc. Prof.	Plovdiv University	100
ICT in education	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
Workshops with teach-ers-to-be in the primary school international students	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
Financial Models in Levi Processes	E. Pancheva, Prof.	Sofia University, FMI	30
Biostatistics	R. Gueorguieva, Assoc. Prof.	Sofia University, FMI	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Seminar in Probability Theory and Statistics	M. Bojkova, Assoc. Prof.	Sofia University, FMI	60
Probability Theory and Mathematical Statistics	V. Stoimenova, Dr	Sofia University, FMI	270
Stochastic Processes	V. Stoimenova, Dr	Sofia University, FMI	30
Design of experiments	V. Stoimenova, Dr	Sofia University, FMI	45
Introduction to Programming	N. Daskalova, Mathematician	Sofia University, FMI	30
Practice in Statistics via R	N. Daskalova, Mathematician	Sofia University, FMI	90
Software development management	A. Eskenazi, Sen.res	University of Economics, Varna	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Graphical programming language PostScript	B. Bantchev, Res.Ass.	Sofia University	30
Actuarial mathematics	B. Bantchev, Res.Ass.	Sofia University	30
Informatics -1	Emiliya Saranova, Researcher	CTP-Sofia	228
Basis of Informatics	Emiliya Saranova, Researcher	CTP-Sofia	140
Total			**4 199**

Year 2008

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Technology for Calculus	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	14
Problem Solving	Valentin Brimkov, Assoc. Prof. Ph.D.	SUNY Buffalo State College, USA	14
Neural Networks and Genetic Algorithms	Sregey Varbanov, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Functional programming	Sregey Varbanov, Assist. Prof.	Sofia University “St. Kliment Ochridsky”	30
Summer program “Awesomemath”	Oleg Muskarov, Prof., DSc	University of Texas, Dallas	40
Descriptive Geometry	Velichka Milousheva, Dr. Assist. Prof.	“L. Karavelov” Civil Engineering Higher School, Sofia, Bulgaria	200

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Informatics	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	80
Programming	A.Iliev, Assoc. Prof. Dr.	PU "Paisii Hilendarski"	12
Introduction to Infomatics (for humanitarian students)	I. Koychev, Assoc. Prof. Dr.	SU “St.K.Ohridski”	30
Informatics	G. Vragov, Research fellow	Academy of Music, Dance and Fine Arts	20
Functional analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	30
Programming in C++	Emil Kelevedjiev, Researcher	New Bulgarian University	60
Data Structures	Emil Kelevedjiev, Researcher	New Bulgarian University	60
Graph Theory	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	15
Discrete Optimization	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	45
Numerical Methods in Control Theory	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	30
Numerical Methods in Problems for Extrema	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	60
Game Theory	Ermak Dimov, Assoc.Prof., Ph.D.	University of Veliko Tarnovo	30
Introduction to temporal logic	Dimitar P. Guelev, Research Fellow Dr	Sofia University	15
Non-classical logics	Vladimir Sotiro, Senior Research Fellow Dr	Sofia University	60
Logic programming	Dimiter Dobrev, mathematician	Sofia University	60
Practical course of logic programming	Dimiter Dobrev, mathematician	Sofia University	90
The Medieval cultural space – seminar	K. Rangochev, PhD Ass. Prof.	SU “St. Kl. Ohridski”	60
Linear algebra and analytic geometry	Veselin Kyurkchiev, Mathematician	Sofia University	60
Numerical methods	Veselin Kyurkchiev, Mathematician	Sofia University	60
Calculus 2	Borislav Draganov, Researcher	Sofia University	120
Calculus 1	Borislav Draganov, Researcher	Sofia University	120
Calculus	Borislav Draganov, Researcher	Sofia University	30
Number Theory with Algorithms	Nikolai Manev, Assoc. Prof. PhD	FMI - Sofia University	30
Seminar on Algorithms	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Mentoring pre-service teachers in mathematics in a class setting	Toni Chehlarova, Assoc. Prof.	Plovdiv University	100
Didactical Practice	Toni Chehlarova, Assoc. Prof.	Plovdiv University	100
ICT in education	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
Workshops with teachers-to-be in the primary school international students;	Yordanka Gorcheva, Assistant Prof.	Sofia University "St. Kliment Ohridski"	30
IT in Mathematical Education	E. Stoimenova, Assoc. Prof.	Sofia University, FMI	15
Biostatistics	R. Gueorguieva, Assoc. Prof.	Sofia University, FMI	30
Probability Theory and Mathematical Statistics	V. Stoimenova, Dr	Sofia University, FMI	135
Introduction to probability and mathematical statistics	V. Stoimenova, Dr	Sofia University, FMI	90
Планиране на експеримента	V. Stoimenova, Dr	Sofia University, FMI	30
Mortality Models	V. Stoimenova, Dr	Sofia University, FMI	30
Concepts and constructs in programming languages	B. Bantchev, Res.Ass.	Sofia University	30
Computational geometry	B. Bantchev, Res.Ass.	Sofia University	30
Modern functional programming	B. Bantchev, Res.Ass.	Sofia University	30
Vector computer graphics	B. Bantchev, Res.Ass.	Sofia University	30
Internet programming with REBOL	B. Bantchev, Res.Ass.	New Bulgarian University	30
Actuarial mathematics	S. Kostova, Math.	Sofia University	30
Informatics -1	Emiliya Saranova, Researcher	CTP-Sofia	70
Basis of Informatics	Emiliya Saranova, Researcher	CTP-Sofia	80
High mathematics	Emiliya Saranova, Researcher	CTP-Sofia	30
Computer skills, PC	Desislava Dimkova, MSc	New Bulgarian University	360
Total			**2 860**

Totally 23 054

9.1.3. Students preparing their bachelor or master theses

	2004	2005	2006	2007	2008	all
Sofia University	10	11	5	3	15	44
University of Plovdiv	9	5	13	14	13	54
Veliko Tarnovo University	7	8	1	5	4	25
Technical University, Varna	13		2			15
New Bulgarian University			2	3	2	7
Technical University, Sofia	1	1	1			3
South-West University			1	1	10	12
City University	5	5	5	4	4	23
USP, Sao Paulo, Brazil	3	1				4
Stevens Institute of Technology			1		1	2
University of Antwerpen	1					1
UDLA, Puebla, Mexico					1	1
University of Murcia, Spain					1	1
Universite des Antilles et de la Guyane					1	1
Total	49	31	31	30	52	**193**

9.2. Post-graduate training and specialization courses:

Year 2004

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	**2**	**3**	**4**
Minicourse on PI-algebras	Vesselin Drensky, Cor.-member	University of Ottawa and Memorial University of Newfoundland, Canada	30
Computer Algebra System Mathematica – Course for Ph.D. Students	Margarita Spiridonova, Assist. Prof.	Institute of Mathematics and Informatics, BAS	30
Potential Theory	Ralitsa Kovacheva, Prof., DSc	University of Trier, Germany	30
Stochastic approach in insurance and financial problems	E. Pancheva, Prof.	Compressed course for master and PhD students from the Balkans (DAAD)	27
Theory of approximations	Natalia Kolkovska, Assoc. Prof. Dr.	IMI, BAN.	12
Operative Management	Tsvetomir Tsachev, Senior Researcher, Ph.D.	Business Academy “D. Tsenov” - Svishtov	10

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Nonlinear Functional Analysis	Nadezhda Ribarska, Senior Researcher, Ph.D.	Sofia University, FMI	45
Stochastic Optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Nonlinear Functional Analysis	Nadezhda Ribarska, Senior Researcher, Ph.D.	Sofia University, FMI	45
Convex analysis and nonlinear optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Dynamic programming and stochastic optimal control	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Object-Oriented Programming: Java	Emil Kelevedjiev, Researcher	IMI - BAS	60
Object-Oriented Prog-ramming: Practice in Java	Emil Kelevedjiev, Researcher	IMI - BAS	60
Foundations of Mathematical Linguistics	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	90
Electronic Publishing's Environments	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Hypertext, multimedia, hypermedia	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Tools and Systems for Electronic Publishing Activities	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
New Media's Semiotics	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Computational Lexico-graphy- practical ex.	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	90
Programming in Internet-practical exercises	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Professional Communications	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Logic, Language, Information	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Methods and Algorithms for Language Technologies	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	90
Computational Morphology	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
2D graphics and computational animation	L. Pavlova, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
3D graphics and computational animation	L. Draganov, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
Formal, Linguistics, and Statistical Methods for Analysis of Bulgarian Heroic Epos	K. Rangochev, PhD Ass. Prof.	International summer school "Formal Methods for Analysis and description of Folkloric text ", Pskov, Russia	6
Aspectology	I. Derzhanski, PhD Assoc. Prof.	Saint Petersburg Summer School in Linguistics, 28 June–12 July, Russia	6
Linguistics in Bulgarian school, informal *meeting* with Bulgarian Language	I. Derzhanski, PhD Assoc. Prof.	6th winter linguistics school, 3–17 January, Moscow, Russia	2
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective Bulgarian participants in the International Olympiads in Linguistics	13
Neural Networks	A. Slavova, Prof., DSc.	Centre for Excellence, IMI	30
Optimal Codes	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
CRC Codes	Tsonka Baicheva, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Boolean functions (for PhD st.)	Krassimir Manev, Assoc. Prof. PhD	FMI - Sofia University	40
Algorithms for constructing optimal codes	I. Bouyukliev, Assoc. Prof. DrSci	PhD students, IMI - BAS	40
Analysis (for PhD st.)	Stanimir Troyansky, Academician, D.Sci	University of Murcia, Spain	40
Total 2004			**1 491**

Year 2005

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University, FMI	45
Potential Series Theory	Ralitsa Kovacheva, Prof., DSc	University of Trier, Germany	60
Operative Management	Tsvetomir Tsachev, Senior Researcher, Ph.D.	Business Academy "D. Tsenov" - Svishtov	10

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Nonlinear Functional Analysis	Nadezhda Ribarska, Senior Researcher, Ph.D.	Sofia University, FMI	45
Convex analysis and nonlinear optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Dynamic programming and stochastic optimal control	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Object-Oriented Programming: Java	Emil Kelevedjiev, Researcher	IMI - BAS	60
Object-Oriented Prog-ramming, Practice in Java:	Emil Kelevedjiev, Researcher	IMI - BAS	60
Numerical methods of optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Object-Oriented Programming: C++	Emil Kelevedjiev, Researcher	IMI - BAS	60
Object-Oriented Programming C++ Practice	Emil Kelevedjiev, Researcher	IMI - BAS	60
Optimization in Discrete Structures	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	30
Foundations of Mathema-tical Linguistics- lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Tools and Systems for Interactive Training - lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Knowledge Processing Technologies - lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Mathematical Foundations of Informatics	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	75
Computational Lexicograp-hy- practical exercises	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Discrete Mathematics and Mathematical Logics-lectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	75
Programming in Internet and Professional Communications	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	60
Logic, Language, Information- lectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Computer Systems and Architectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Data Bases	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Methods and Algorithms for Language Technologies	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Computational Morphology	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
2D graphics and computational animation	L. Pavlova, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
3D graphics and computational animation	L. Draganov, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
Hypertext, multimedia, hypermedia	D. Paneva, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	45
Algorithmics	M. Markov, MSci	Veliko Tarnovo University and IMI-BAS	75
Bulgarian Oral Epos: current state of the tradition	K. Rangochev, PhD Ass. Prof.	International autumn school "Folkloric text and ceremony", November 2006., Pereslavl Zaleskii, Russia	4
Folkloric short stories about dragon in Rodopa mountain	K. Rangochev, PhD Ass. Prof.	International autumn school "Folkloric text and ceremony", November 2006., Pereslavl Zaleskii, Russia	4
Theoretical Linguistics and Methods of Extracurricular Activities in Linguistics	I. Derzhanski, PhD Assoc. Prof.	Saint Petersburg International Summer school, 15–19 August 2005, Russia	10
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective Bulgarian participants in the International Olympiads in Linguistics	10
Coding Theory and Computer Security	Nikolai Manev, Assoc. Prof. PhD	PhD students, IMI -- BAS	40
Optimal Codes	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
CRC Codes	Tsonka Baicheva, Assoc. Prof. PhD	PhD students, IMI - BAS "	40
Boolean functions	Krassimir Manev, Assoc. Prof. PhD	PhD students, FMI - Sofia University	40
Algorithms for constructing optimal codes	I. Bouyukliev, Assoc. Prof. DrSci	PhD students, VTU "St. St. Kiril & Metodi	40
Analysis (for PhD st.)	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	40
Total 2005			**1 703**

Year 2006

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University, FMI	45
Approximation Theory	Ralitsa Kovacheva, Prof., DSc	Katholische Universität Eichstaett, Germany	40
Operative Management	Tsvetomir Tsachev, Senior Researcher, Ph.D.	Business Academy "D. Tsenov" - Svishtov	20
Nonlinear Functional Analysis	Nadezhda Ribarska, Senior Researcher, Ph.D.	Sofia University, FMI	45
Convex analysis and nonlinear optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Numerical methods of optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Object-Oriented Programming: C++	Emil Kelevedjiev, Researcher	IMI - BAS	60
Object-Oriented Programming Practice	Emil Kelevedjiev, Researcher	IMI - BAS	60
Optimization in Discrete Structures	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	30
Dynamic programming and stochastic optimal control	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Numerical Methods in Extremal Problems	Nikolay Kitanov, Ph.D.	South-West Univ., Blagoevgrad	30
Foundations of Mathematical Linguistics-lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Tools and Systems for Interactive Training - lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Knowledge Processing Technologies - lectures	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Mathematical Foundations of Informatics	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	75
Computational Lexicography	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Programming in Internet and Professional Communications	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	60

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Logic, Language, Information- lectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Computer Systems and Architectures-lectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Data Bases- lectures	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Methods and Algorithms for Language Technologies	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Computational Morphology	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
2D graphics and computational animation	L. Pavlova, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
3D graphics and computational animation	L. Draganov, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
Hypertext, multimedia, hypermedia	D. Paneva, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	45
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective Bulgarian participants in the Int. Olympiads in Linguistics	10
Aspectology	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the International Olympiads in Linguistics in Narva-Jõesuu, Estonia	6
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the Int. Olympiads in Linguistics in Russia	4
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the Int. Olympiads in Linguistics in US	4
Coding Theory and Computer Security	Nikolai Manev, Assoc. Prof. PhD	PhD students, IMI -- BAS	40
Combinatorics	Ivan Landjev, Prof. DrSci	PhD students, New Bulgarian University	30

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Finite Fields	Ivan Landjev, Prof. DrSci	PhD students, New Bulgarian University	30
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, Tech. Univ.-Varna	40
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	PhD students, VTU "St. St. Kiril & Metodi	40
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Optimal Codes	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
CRC Codes	Tsonka Baicheva, Assoc. Prof. PhD	PhD students, IMI - BAS "	40
Algorithms for constructing optimal codes	I. Bouyukliev, Assoc. Prof. DrSci	PhD students, VTU "St. St. Kiril & Metodi	40
Spherical Codes and Designs	Peter Boyvalenkov, Assoc. Prof. DrSci	PhD students, IMI - BAS	80
Analysis (for PhD st.)	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	40
Total 2006			**1 709**

Year 2007

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Nonlinear Functional Analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	90
Operative Management	Tsvetomir Tsachev, Senior Res., Ph.D.	Business Academy “D. Tsenov” - Svishtov	20
Foundations of Mathe-matical Linguistics	R. Pavlov, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Tools and Systems for Interactive Training	D. Paneva, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	45
Knowledge Processing Technologies	D. Paneva, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	30
Computational Lexicography	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Programming in Internet and Professional Communications	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	60
Logic, Language, Information	L. Dimitrova, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	30
Methods and Algorithms for Language Technologies	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
Computational Morphology	I. Derzhanski, PhD Assoc. Prof.	Veliko Tarnovo University and IMI-BAS	45
2D graphics and computational animation	L. Pavlova, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	60
3D graphics and computational animation	L. Draganov, Ass. Prof.,	Veliko Tarnovo University and IMI-BAS	60
Hypertext, multimedia, hypermedia	D. Paneva, Ass. Prof.	Veliko Tarnovo University and IMI-BAS	45
Folkloric Legends about the last Bulgarian King Ivan Shishman and their relations with calendar ritual practices	K. Rangochev, PhD Ass. Prof.	Centre for Typology and Semiotics of the Folklore, Russian State University in Humanities - Moscow, Pereslavl Zaleskii, Russia	6
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective Bulgarian participants in the International Olympiads in Linguistics	13
Writing Systems - lectures	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the International Olympiads in Linguistics in Narva-Jõesuu, Estonia	6
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the International Olympiads in Linguistics in Russia	4
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the Int. Olympiads in Linguistics in US	4

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Coding Theory and Computer Security	Nikolai Manev, Assoc. Prof. PhD	PhD students, IMI -- BAS	40
Finite Geometries	Ivan Landjev,Prof. DrSci	PhD students, New Bulgarian University	30
Cryptography	Ivan Landjev, Prof. DrSci	PhD students, New Bulgarian University	30
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, Tech. Univ.-Varna	40
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	PhD students, VTU "St. St. Kiril & Metodi	40
Database Systems	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Optimal Codes	Galina Bogdanova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Boolean functions	Krassimir Manev, Assoc. Prof. PhD	PhD students, FMI - Sofia University	40
Algorithms for constructing optimal codes	I. Bouyukliev, Assoc. Prof. DrSci	PhD students, VTU "St. St. Kiril & Metodi	40
Spherical Codes and Designs	Peter Boyvalenkov, Assoc. Prof. DrSci	PhD students, IMI - BAS	80
Statistics for research	E. Stoimenova, Assoc. Prof., R. Gueorguieva, Assoc. Prof.	BAS	24
Analysis (for PhD st.)	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	40
Total 2007			**1 177**

Year 2008

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Artificial Intelligence – (for Ph.D. Students)	Ventzeslav Valev, Prof. D.Sci.	Wroclaw University of Technology, Poland,	45
Combinatory Algorithms - Course for Ph.D. Students	Ventzeslav Valev, Prof. D.Sci.	Wroclaw University of Technology, Poland	45
C for Scientific Computations	Evgenija D. Popova, Assoc. Prof., PhD	Institute of Space Research – BAS	40
Vector bundles and connections	Johan Davidov, Prof., DSc	Sofia University, FMI	30
Introduction to smooth manifolds	Johan Davidov, Prof., DSc	Miami (USA), FIU	45

Subject/Topic	Lecturer	Institution of higher education	Academic hours
1	2	3	4
Nonlinear Functional Analysis	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	45
Convexity and Differentiability in Banach Spaces	Nadezhda Ribarska, Assoc.Prof., Ph.D.	University of Sofia	45
Convex analysis and nonlinear optimization	Darinka Dentcheva, Researcher, Ph.D.	Stevens Institute of Technology	60
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective Bulgarian participants in the Int. Olympiads in Linguistics	13
Bulgarian Language - lectures	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the International Olympiads in Linguistics in Narva-Jõesuu, Estonia	6
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the Int. Olympiads in Linguistics in Russia	4
Lectures in linguistics	I. Derzhanski, PhD Assoc. Prof.	National summer and winter schools and seminars for prospective participants in the Int. Olympiads in Linguistics in US	4
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Authomorphisms of designs and codes	Svetlana Topalova, Assoc. Prof. PhD	PhD students, Tech. Univ.-Varna	40
CRC Codes	Tsonka Baicheva, Assoc. Prof. PhD	PhD students, IMI - BAS	40
Boolean functions	Krassimir Manev, Assoc. Prof. PhD	PhD students, FMI - Sofia University	80
Spherical Codes and Designs	Peter Boyvalenkov, Assoc. Prof. DrSci	PhD students, IMI - BAS	80
Statistics for research	E. Stoimenova, Assoc. Prof., R. Gueorguieva, Assoc. Prof.	BAS	24
Analysis (for PhD st.)	Stanimir Troyansky, Academician, D.Sci	University of Mursia, Spain	40
Total 2008			**726**

Total 6 806

9.3. Schools organized by the unit:

Topic	Total number of participants	Incl. from abroad	Total number of lecturers	Incl. from abroad
2004				
Mathematics IV (Ordinary Differential Equations for Biologists) - University of Chile, 2004				
Analysis III (Measure Theory and Integration) - University of Chile, 2004				
XI International Conference on Probability and Statistics and Seminar of Statistical Data Analysis, Sozopol' 2004(Chairman of the Org.Committee prof. N. Yanev and assoc. prof. D. Vandev, secretary – assoc. prof. M. Bojkova)	60			
International Conferences of Applied Mathematics and Computing, Plovdiv, Bulgaria 2004	130	120	114	105
EURO XX, 20th European Conference on Operational Research. Mini symposium on SIO. July 2004, Rhodes, Greece. (Maxim Todorov).				
Conference on PDE Methods in Applied Mathematics and Image Processing 2004	48	29	39	29
Algebraic and Combinatorial Coding Theory (ACCT 2004)	91	64	77	54
Research Summer School of the High School Students Institute of Mathematics and Informatics	70		15	
Intensive Course „Educational Software GEONExT", Centre of Excellence for Applications in Mathematics, funded by DAAD, Germany	27	9	2	2
Intensive Course „Financial Mathematics", Centre of Excellence for Applications in Mathematics, funded by DAAD, Germany	24	9	2	1
Intensive Course „Neural Networks",Centre of Excellence for Applications in Mathematics, funded by DAAD, Germany	23	7	2	1
Total:	**473**	**238**	**251**	**192**
2005				
Analysis III (Measure Theory and Integration) University of Chile				
10th Workshop on Well-Posedness of Optimization Problems, 5-9.9.2005, Borovets, Bulgaria	91	75	32	28

Intensive Course Optimization - Theory and Applications, funded by DAAD (Germany):04–15.09.2005	29	20	2	2
International Conferences Mathematics and Natural Sciences, Blagoevgrad, Bulgaria 2005	43	5	30	5
International Conferences of Applied Mathematics and Computing, Plovdiv, Bulgaria 2005	125	119	108	102
8th International Conference on Parametric Optimization and Related Topics. Mini symposium on SIO. Cairo, Egypt, 2005. (Maxim Todorov).				
Optimal Codes and Related Topics (OC2005)	60	26	53	26
2005; Research Summer School of the High School Students Institute of Mathematics and Informatics	70		15	
Total	**418**	**245**	**240**	**163**
2006				
Mathematical Models of Ecology (optional course) - University of Chile, 2006;				
Topology - Catholic University of Chile, 2006;				
Analysis III (Measure Theory and Integration) - University of Chile, 2006				
XII International Conference on Probability and Statistics and Seminar of Statistical Data Analysis, Sozopol' 2006 (Chairman of the Org.Committee prof. N. Yanev, secretary – assoc. prof. E. Stoimenova)	85	41	65	33
Dias de Optimizacion. UDLA, San Andres Cholula, Puebla, Mexico, Otober 26-28, 2006, (Maxim Todorov: Chairman of the Organizing Committee).				
International Conferences of Applied Mathematics and Computing, Plovdiv, Bulgaria 2006	140	129	131	118
EURO XXI, 21st European Conference on Operational Research. Stream on LSIP. Reykjavik, Iceland, 2-5 July, 2006. (Maxim Todorov).				
Research Summer School of the High School Students Institute of Mathematics and Informatics year 2006	75		17	

Year 2006; Co-organizer of Sixth International. Conference on Numerical Methods and Applications	128	70	116	68
Courses in SAT, GRE, GMAT (30 participants)	60		1	
Total	**488**	**240**	**330**	**219**
2007				
Functional Analysis - Catholic University of Chile, 2007;Differential Equations (for Engineers) - Catholic University	10		1	
National Seminar about the problems in the Stochastical education, 25 – 30 June 2007, Kiten, Bulgaria (organizers assoc. prof. P. Mateev and M. Bojkova)	35	5	30	
Algebra, Algebraic Geometry and Number Theory, within the program of the International Conference „60 years Institute of Mathematics and Informatics“, Bulgarian Academy of Sciences July 6 - 8, 2007, Sofia	30	21	23	22
Summer School of Informatics-2007	30	25	5	3
International Conferences Mathematics and Natural Sciences, Blagoevgrad, Bulgaria 2007	56	8	35	6
International Conferences of Applied Mathematics and Computing, Plovdiv, Bulgaria 2007	157	138	145	130
Optimal Codes and Related Topics (OC2007)	68	37	68	37
2007; Research Summer School of the High School Students Institute of Mathematics and Informatics	80		18	
“Scientific Support for the Decision Making in the Security Sector” funded by the NATO Programme “SECURITY THROUGH SCIENCE”	39	27	39	27
Intensive Course on Software Educational Systems (under a project with DAAD)	30	14	3	2
Workshop with the University of Essen, Germany	15	15	5	
Courses in SAT, GRE, GMAT (30 participants)	60		1	
Total	**610**	**290**	**373**	**227**
2008				
Differential Equations (for Mathematicians) - Catholic University of Chile, 2008; Calculus III (for Economists) - Catholic University of Chile, 2008	9		1	

XII International Summer Conference on Probability and Statistics, Sozopol' 2008(Chairman of the Org.Committee prof. N. Yanev, secretary – assoc. prof. E. Stoimenova)	95	41	65	33
Summer School of Informatics - 2008	30	25	5	3
Workshop on Optimization and Applications, 17-19.12.2008, Sofia, Bulgaria	30	3	20	3
International Conferences of Applied Mathematics and Computing, Plovdiv, Bulgaria 2008	165	149	157	142
IX International Conference "Approximation and Optimization in the Caribbean". Mini symposium on SIO. Colombia 2008 (Maxim Todorov).				
Algebraic and Combinatorial Coding Theory (ACCT 2008)	70	43	62	43
2008; Research Summer School of the High School Students Institute of Mathematics and Informatics	80		18	
Courses in SAT, GRE, GMAT	180		1	
International summer school in mathematics and informatics	60	40	2	
National Seminar on Coding Theory (annually vary)	30	3	30	3
Total	**749**	**304**	**361**	**227**
Total 2004-2008:	**2738**	**1317**	**1555**	**1028**

9.4. List of contracts and agreements with institutions of higher education and scientific organizations in the country. This information should be given as a whole for the period.

At national level IMI has bilateral contracts and agreements with:

- American College – Sofia;
- American University in Bulgaria, Blagoevgrad;
- Antarctic Place-names Commission of Bulgaria;
- Bulgarian Institute for Standardization;
- Bulgarian National Library;
- Civil Engineering Higher School "L. Karavelov";
- College of Telecommunications and Post, Sofia;
- D.A.Tsenov Academy of Economics, Svishtov;
- Defense Staff College "G.S. Rakovski";
- Economics University, Varna;
- Faculty of Mathematics and Informatics, Sofia University;
- Gabrovo Technical University;

- Higher Attestation Commission at the Council of Ministers;
- International University, Sofia;
- Ministry of Defense of Republic of Bulgaria;
- Ministry of State Policy for Disasters and Accidents;
- National Military University;
- New Bulgarian University;
- Plovdiv University “Paisii Hilendarski”;
- Rousse University “Angel Kantchev”;
- Shumen University;
- Sofia University (Faculty of Mathematics and Informatics & Faculty of Philosophy);
- South-West University, Blagoevgrad;
- State Agency for Information Technology and Communications;
- State University of Library Studies and Information Technologies;
- Technical University, Sofia;
- The National Fine Arts Gallery;
- The National Library Ivan Vazov, Plovdiv;
- The National Library St. Cyril and St. Methodius, Sofia;
- The National Museum of History;
- The State Archives;
- Higher School of Transport “Todor Kableshkov”, Sofia;
- Varna Free University;
- Varna Technical University;
- Veliko Tarnovo University;
- Etc.

Annex 10. Information about the expert activity of the scientists and the specialists with higher education from the unit:
10.1. List of councils, commissions and other expert bodies of external for BAS institutions (governmental and non-governmental), foundations, organizations, publishing houses and others, where scientists and specialists from the unit are participating. This information should be given as a total for the period.

Department: Geometry and Topology

1. Specialized Scientific Council in Mathematics

Department: Mathematical Logic

1. Council for European and Atlantic Integration of the President of the Republic of Bulgaria
2. Council to the Parliamentary Committee on Civil Society
3. Antarctic Place-names Committee of the Ministry of Foreign Affairs
4. Atlantic Club in Bulgaria
5. Manfred Wörner Foundation
6. Foundation "Society and Information"
7. Programme Committee of International Colloquium on Theoretical Aspects of Computing, 2005, (ICTAC05), Hanoi, Vietnam, October 17-21, 2005
8. Programme Committee of 8th International Conference on Feature Interactions in Telecommunications and Software Systems, (ICFI'05), Leicester, UK, June 28-30, 2005
9. Interministerial Working Group on the Problems of Antarctica
10. Association of the Atlantic Treaty, Brussels
11. Institute for Market Economy
12. Programme Committee of 2nd South-East European Workshop on Formal Methods "Practical dimensions: Challenges in the business world", Ohrid, November 18-19 , 2005 (Satellite of 2nd Balkan Conference in Informatics, 17-20 Nov 2005)
13. Strait Council, Washington
14. Organizing Committee of Logic Colloquium 2009
15. Programme Committee of International Conference on Feature Interaction (ICFI) 2007
16. Programme Committee of Southeast European Workshop on Formal Methods (SEEFM) 2007.

Department: Education in Mathematics and Informatics

1. Specialized Scientific Council on Education at the Higher Commission of Attestations 2007 - 2008

2. National Commission for secondary school-leaving examination
3. National Commission for junior high-school-leaving examination
4. National Commission for young talents
5. National Commission for Olympiads and contests (4-8th grade)
6. Member of WG 3.5 of IFIP
7. Representative of Bulgaria for ICMI
8. WFNMC (1994 on)
9. National Commission for Olympiads and contests (4-8th grade)
10. Union of Bulgarian Mathematicians
11. National Tournament Chernorizec Hrabar (1992 on)
12. National commission in mathematics (2006-2008)
13. International jury of the contest Mathematics and Projecting (2007)
14. EC workgroup in MST (2003-2004)
15. Union of Scientists in Bulgaria
16. Union of Bulgarian Mathematicians
17. Association for the Development of Education
18. National Commission for Olympiads and Contests (4-8th grade)
19. AMS (American Mathematical Society) 2002-2005
20. SIAM (Society for Industrial and Applied Mathematics) 2003-2004

Department: Information System

1. World Summit Award (WSA), national expert, member national contest committee, participation in the board of directors meeting
2. European Comision Leonardo da Vinci program
3. Participate in Vienna UN declaration for ICT and creativity: towards global cooperation for quality contents in the information society
4. Reviewer for journal of Computers & Industrial Engineering;
5. The Bulgarian National Science Foundation
6. The Dutch National Science Foundation
7. Expert "Structural Funds and International Educational Programmes" Directorate at Bulgarian Ministry of Education and Science.
8. Expert council under the operative program project "Administrative capacity": "Creating of organizational and technological premises for operative coordination of geo-informational systems and geo-space data in the government administration of the R.Bulgaria"
9. National expert group “Higher education and Information Society”, 2006-2008

10. National expert group “The Citizens and Information Society”, 2006-2008

Department: Software Engineering

1. Board of ACMBUL (Bulgarian chapter of ACM)
2. "Information society commission" (Ministry of Education and Science)
3. Expert council of Computer science/Math. (Higher Accreditation Commission)
4. Commission of Math.& Informatics (HAC)
5. Expert council of Computer technique (Higher Accreditation Commission)
6. Faculty council NBU
7. Association of Developers and Users of Intellectual Systems – Kiev, Ukraine
8. Higher Accreditation Commission (HAC) on the implementation of information technologies
9. National Center for Information and Documentation (NACID) on processing very large text databases
10. Bulgarian Actuarial Society (CHAIRMAN)
11. International Actuarial Association

Department: Mathematical Linguistics

1. National Supreme Commission for Attestation 2004
2. Commission for Mathematics of the Higher Accreditation Commission
3. Alliance for Strategies and Development of Information Society 2007 -
4. Non-governmental Organization: *Foresite Prognosis “Bulgarian **e**-Government”*. 2003 -
5. National Commission at the Ministry of Education and Science, Olympiad and National Contest in Mathematical Linguistics, 2003 -
6. Organising Committee of the International Olympiad in Theoretical, Mathematical and Applied Linguistics, 2003 -
7. Programme Committee of the North American Computational Linguistics Olympiad. 2003

Department: Mathematical Foundations of Informatics

1. Bulgarian National Science Fund
2. Specialized Scientific Council on Informatics and Modeling
3. Specialized Scientific Council on Electronic and Computer Sciences Executive Committee of UBM
4. Scientific Council of NBU

5. Faculty Scientific Council of FMU – SU
6. National Commission for high school Mathematical Olympiads
7. Local office of “Zentralblat für Mathematik”
8. Referents for “Mathematical Reviews”
9. Mathematical Congress of MASSEE
10. Annual Spring Conferences of UBM

Department: Operational Research

1. President of the Higher Attestation Commission to the Council of Ministers, Bulgaria.
2. President (2004-2008) of the World Federation of National Mathematics Competitions
3. Member (2002-2006) of the Executive Committee of ICMI (International Commossion for Mathematics Instruction)President of the Interanational Foundation "St.Cyril and St. Methodius"
4. Chairman of the Editorial Board of "Mathematica Balkanica"
5. Member of Editorial Board of 5 Journals
6. Member of the Governing Body of the Union of Bulgarian Mathematicians
7. 2002-2006 Member of the Advisory Board of the Commission for electronic and information communications of the International Union of Mathematicians
8. Member of a Council for Applied Mathematics and Mechanics at the Higher Attestation Commission of Bulgaria
9. Mexican Mathematical Society
10. Sistema Nacional de Investigadores (Mexico) - Nivel II.
11. International Union of Scientists.
12. Academia de Ciencias, Puebla
13. Club - FMI
14. Director of CIFMA-UDLA, Puebla, Mexico
15. Union of Bulgarian Mathematicians
16. National Evaluation and Accreditation Agency
17. Member of Expert Body of the Standing Committee on Natural Sciences, Mathematics and Computing
18. New Bulgarian University, Department Informatics, member of Department Council
19. Member of a Specialized Scientific Council for Informatics and Mathematical Modeling
20. Faculty scientific council, FMI, Sofia University
21. Specialized Scientific Council for Mathematics
22. Member of the Editorial Board of "Mathematica Plus"

23. Jury of the National Olympiad in Mathematics 2001-2008, Jury of the Winter Mathematical Competitions 2001-2008, Jury of the Spring Mathematical Tournament 2001-2008, Jury of the Autumn Mathematical Tournament 2007-2008, Jury of the National Mathematical Tournaments "Chernorizets Hrabar" and "Ivan Salabashev" 2001-2008
24. Stochastic Programming Committee of the Mathematical Programming Society
25. Member of 2 NSF panels (primary reviewer of 19 projects and member of the discussion for all 95 projects)
26. Panel of the Department of Energy of USA (primary reviewer of 10 projects and member of the discussion for all projects)
27. Chair of the International panel of the Korean Science and Engineering Foundation 2008 for the projects in Applied Mathematics
28. The Open Cybernatics & Systemics Journal

Department: Computational Mathematics

1. Council on Informatics and Computational Mathematics, National Supreme Commission for Attestation, 1998-2004;
2. Council on Informatics and Mathematical modeling, National Supreme Commission for Attestation, 2004-2007;
3. Council of the Faculty of Mathematics and Nature, South-West University, Blagoevgrad, 2002-2006;
4. Expert Commission for Scientific Cooperation with JINR-Dubna, 2000-2007;
5. Working Group WG 2.5, International Federation for Information Processing, Member, 1988-present
6. Interim Management Board of the International Society for Porous Media, Germany, 2008-present

Department: Differential Equations

1. Scientific Counsel for Mathematics (division of Higher Accrediting Commission)
2. Commission for Mathematics of the Higher Accrediting Commission
3. Commission for Higher Scientific achievements of the Union of Scientists in Bulgaria (USB).

Department: Probability and Statistics

1. Specialized Scientific Councils in Applied Mathematics and Mechanics
2. Specialized Scientific Councils in Radio electronic and Communication Technique

3. Commission in Mathematics, Mechanics and Applications of Mathematics (in High Certifying Commission)
4. Member of the Scientific committee for Informatics, of the Higher Certifying Commission at the Council of Ministers of Republic of Bulgaria, 2005-2007.
5. Commission for Conferment of PhD Degree in Informatics, University "St. Kiril and Metody", Skopie, Macedonia
6. Expert for FP7 of European Commission Evaluator of proposals for Marie Curie individual fellowships - MAT/ENG panel.
7. ProbStat Forum
8. Faculty Council of Faculty of Mathematic and in Informatics, Sofia University "St. Kliment Ohridski"

Department: Algebra

1. Head of the Higher Attestation Commission in Mathematics
2. Specialized Scientific Council for Mathematics
3. Reporter for BSF (United States-Israel Bi-national Science Foundation)
4. Co-organizer of GDR "Geometrie ergodique en courbure negative" (This a research project financed by CNRS, i.e. Centre National de la Recherche Scientifique is a government-funded research organization, under the administrative authority of France's Ministry of Research
5. Member of the hiring commission of the math department of the Univ. of Lyon, France
6. Member of the Council of the Institute Camille Jordan, CNRS, France

Department: Humanities Informatics

1. Member of the Executive Board of the National Commission for UNESCO
2. Chair of the Memory of the World committee for Bulgaria
3. Member of Technical committee 16 (Library, archive and information activities) at Bulgarian Institute for Standardization (BDS)
4. Member of the national expert commission of Informatics at National Science Fund at the Ministry of Education
5. Expert, National Evaluation and Accreditation Agency, Programme Accreditation Missions (2007, 2008)
6. Member of the Specialized Scientific Council of Applied Mathematics and Mechanics at High Attestation Committee (2006-2007)
7. Member of the High Statistical Council at National Statistics Institute
8. Member of Technical committee 12 (Application of statistical methods) at Bulgarian Institute for Standardization (BDS)

9. Member of Café Scientifique initiative of the Bulgarian Education Ministry & British Council for popularizing Bulgarian Science

Department: Artificial Intelligence

1. Technical Committee on Discrete Geometry (TC 18), International Federation on Pattern Recognition
2. International Journal of Machine GRAPHICS & VISION
3. Proceedings of Digital Geometry Workshop 2005
4. International Journal for Computational Vision and Biomechanics, Serials Press
   Pattern Recognition
5. Pattern Recognition Letters
6. Informatica
7. Lecture Notes in Computer Science (Springer-Verlag)
8. IEEE Transactions on Medical Imaging
9. Academic Radiology
10. Medical Physics
11. X-ray Science and Technology
12. IEEE Transactions on Biomedical Engineering
13. Mathematical Reviews of AMS
14. Journal of Machine GRAPHICS & VISION
15. Critical Reviews in Biomedical Engineering
16. Springer Series on Lecture Notes in Computer Science (LNCS)
17. IEEE Transactions on Biomedical Engineering
18. International Journal of Biomedical Engineering Gateway (BEG)
19. Discrete Applied Mathematics
20. International Journal on Imaging Systems and Technology
21. Discrete Mathematics (Elsevier)
22. Image and Vision Computing (Elsevier)
23. Theoretical Computer Science (Elsevier)
24. IEEE Transactions on PAMI
25. DGCI'06
26. IWCIA'06
27. CompIMAGE
    http://www.iaeng.com/WCECS2007/ICSPIE2007.html.

Department: Mathematical Physics

1. Member of the Scientific Council on Informatics and Mathematical Modelling
2. Member of the Technical Committee of IEEE CNNAD
3. Secretary of the Bulgarian Section of SIAM
4. Member of the National URSI Committee
5. Vice President of the Bulgarian Section of WSEAS
6. Reviewer for IEEE Trans. CAS- I,II, Int.J. Circuit Theory and Applications, Applied Mathematical Modeling, Physica D
7. Reviewer for Zentralblat, Mathematical Reviews
8. Scientific secretary of the Scientific Council on Applied Mathematics and Mechanics, 2004-2008

Department: Mathematical Modeling

1. Commission of Mathematical Sciences of Higher Attestation Commission in Bulgaria.
2. Commission on Informatics and Mathematical Modelling of Higher Attestation Commission in Bulgaria.
3. Expert Council of Ministry of Education and Science.
4. Selection Committee of the "Vasil Popov Prize" USA.
5. Consultative Committee of EURATOM on Fusion (CCE-Fu).
6. Scientific and Technology Advisory Committee (STAC).
7. Administrative and Financial Advisory Committee (AFAC).

Department: Complex Analysis

1. Member of the Commission on Mathematics, Higher Attestation Commission (member)
2. Member of the editorial board of JP Journal of Geometry and Topology.
3. Specialized Scientific Council for Mathematics - Higher Attestation Commission (member until 2006)
4. Specialized Scientific Council in Mechanics and Applied Mathematics - Higher Attestation Commission (member)
5. Specialized Scientific Council for Mathematics - Higher Attestation Commission (member)
6. Association of Bulgarians Who Studied in Britain - NGO (*Member of Board*)
7. "Lions International – Club Sofia-Sunrise" - NGO (*Member of Board*)
8. Reviewer for "Mathematical Reviews"(Amer. Math. Soc. – Providence, USA), "ZentralBlatt fuer Mathematics" (FIZ Karlsruhe – Springer, Germany);

9. Reviewer of books proposals for international publishers, as: “Springer” (Germany), “*Imperial College Press*” (UK), “*World Scientific*” (Singapore);
10. Secretary of the Commission on Mathematics, Higher Attestation Commission
11. Vice-President of the Union of Bulgarian Mathematicians
12. Director of the High School Students Institute of Mathematics and Informatics
13. Member of the National Mathematical Olympiad Commission
14. Head of UBM Commission for extracurricular work in mathematics

Department: Biomathematics

1. Board of GAMM-BG (Gesellschaft für Angewandte Mathematik und Mechanik)
2. GAMM-Fachausschuss (special interest group) "Computerunterstuetzte Beweise und symbolisches Rechnen" (computer-assisted proofs and symbolic computations) http://www.math.uni-wuppertal.de/wrswt/gamm/

Department: Telecommunications

1. TIMSS, IEANCEE
2. National Statistical Institute
3. Electronic Publishing Development Program, OSI-Budapest
4. Национална комисия по информатика при НСНИ/МОН
5. Electronic Publishing for Cultural Heritage Studies, High Level Scientific Conferences of EC
6. Specialized Scientific Council on Applied Mathematics and Mechanics
7. Specialized Scientific Council on Radio electronics and Communication Techniques
8. Etude de Reseaux d'Antennes Intelligentes pour les Systemes de Communication sans Fil.
9. National URSI (Union Radio Scientifique Internationale)
10. National Commission for Informatics

INFORMATION
on the international scientific activities

of Institute of Mathematics and Informatics

1. List of **the international projects** carried out by scientists/scholars from the unit **in the framework of the Academy's bilateral agreements:**

With which country/ Under which agreement the project is being carried out	Number of the project -see Annex 1	Project duration from – to	Used annual quota under the bilateral agreement	Realized visits for the period from-to; travel expenses - covered by whom
BELGIUM – BAS and FWO-Flanders	26	2006-2008	28 days	2 3-16.09.2006 25.9-8.10.2006 BAS, IMI-MOI
			26 days	2 19 - 31.3.2007 26.11-8.12. 2007 BAS and IMI
			24 days	2 6-17.03.2008 18-29.09.2008 BAS, IMI-MOI
CHINA	109	2008-2010	14 days	1 5-18.06, BAS
CZECH REPUBLIC	71	2002-2004		
GERMANY BAS and DFG	189		2 months	1 18.09.2004, DFG
			1 months	1 1-30.03.2005, DFG
			2 months	1 18.09.2006, DFG
			2 months	1 09.01.2007, DFG
			2 months	1 08.01.2008,DFG

			3 months	1 22.09.2008,BAS
GERMANY BAS and DFG	42		1 month	1 25.9.-24.10.2006 IMI-BM
GERMANY BAS and DFG			3 months	1 1.01-30.03.2006 other resources
ISRAEL BAS and Israel Academy of Sciences	7,8	2003-2008	8 days	1 7-15.11. 2004,BAS
			8 days	1 9-16.11.2005,BAS
			8 days	14-21.12.2006,BAS
			8 days	1 15-22.11.2007,BAS
ISRAEL BAS and Israel Academy of Sciences	130	2003-2008	15 days	1 1-14.06.2005,BAS
			12 days	1 2-13.12.2006,BAS
				1,2007,BAS
ISRAEL BAS and Israel Academy of Sciences	186	2003-2006	7 days	1 2004,BAS
			7 days	1 14-20.11.2005,BAS
			7 days	1 23-29.11.2006,BAS
			16 days	2 8-15.10.2007,BAS other resources
ISRAEL BAS and Bar Ilan University, Tel Aviv, and Netanya Academic College, Netanya, Israel	61	2003-2008	15 days	1 22.11-6.12. 2004 BAS
			14 days	1 14-20.11.2005,BAS
			7 days	1 5-11.06.2006,BAS
			8 days	1 13-29.06.2007,BAS
ISRAEL BAS and Israel Academy of Sciences	27	2005-2007	7 days	1, 16-30.06.2005,BAS
			8 days	1 15-22.12.2006,BAS
			7 days	1 10-16.12.2007,BAS

ISRAEL BAS and Israel Academy of Sciences	129	2006-2008	6 days	1 8-13.07.2008,BAS
ITALY BAS dnd CNR	187	2007-2009	21 days	2 10-23.9.2007 17-23.9.2007, BAS other resources
			14 days	1 13-26.10.,BAS
POLAND	99	2006-2008	7 days	1 2-8.11.2006 HUBUSKA
			22 days	3 2 - 8-12.5.2007 8-19.5.2007 HUBUSKA; other resources BAS
			14 days	1 13-26.04.2008,BAS
RUSSIA BAS and RAS	24	2004-2008	14 days	1 16 – 29.8. 2004 BAS
			14 days	1 28.05-10.06.2005 BAS
			14 days	2 3– 9.06.2006,BAS IMI-MOI
			14 days	2 18-24.9.2008,BAS IMI-MOI
RUSSIA BAS and RAS	174	2004-2008	14 days	1 11-24.10. 2004,BAS
			7 days	1 24-30.10.2005,BAS
			14 days	1 22.11-5.12.2006,BAS
			7 days	1 12.11-5.12.2007,BAS
			7 days	1 7-13.12.2008,BAS
RUSSIA BAS and RAS	143	2007-2008	14 days	1 3- 26.09.2007,BAS
			14 days	1 29.9.-12.10.2008 BAS
RUSSIA BAS and RAS	183	2007-2008	7 days	1 17-26.12.2007,BAS

			7 days	1 1-7.12.2007,BAS
RUSSIA BAS and RAS	101	2007-2008	14 days	1 17-26.12.2007,BAS
			14 days	2 28.9-6.10.2008, BAS 3-7.12.2008 other resources.
ROMANIA BAS and Romanian Academy	142	2002-2008	14 days	1 3- 17.05. 2004,BAS
			14 days	1 3-17.05.2005,BAS
			14 days	2 3- 9.11. 2006,BAS other resources
ROMANIA BAS and Romanian Academy	115	2006-2008	12 days	2 29.8-4.9.2007 29.8-2.9. 2007,BAS other resources
			7 days	1 30.06.-6.7.2008,BAS
SERBIA	131	2007-2009		
SLOVAKIA	100	2008-2010	9 days	1 29.6-7.7.2008 other resources

HUNGARY BAS and Hungarian Academy	25	2004-2008	16 days	2 30.10-7.11. 2004 BAS + ACCT; ACCT
			14 days	2 28.11-4.12.2005 BAS ,other resources
			14 days	2 6-12.11.2006 25-31.10.2006,BAS IMI-MOI
			10 days	1 4-13.12.2007 BAS
			14 days	2 21-27.05.2008,BAS IMI-MOI
HUNGARY BAS and Hungarian Academy	97	2004-2008	21 days	4 19-27.11. 2004 BAS + HUBUSKA. 16-23.02. 2004 ADONIS 27.3-1.4. 2004 ADONIS
			17 days	2 2-8.03.2005 HUBUSKA 27.10-6.11.2005 BAS +HUBUSKA
			15 days	2 19.3-22.3.2006 9-18.10.2006 HUBUSKA BAS +.HUBUSKA
			16 days	3 23-27.5.2007 16-21.9.2007 17-21..2007 HUBUSCA LOGOS BAS + LOGOS
			10 days	2 4-8.03.2008,LOGOS
HUNGARY BAS and Hungarian Academy	98	2004-2008	18 days	2 20-31.1.2004 ADONIS 15-21.06. 2004 BAS + ARHIMED

			7 days	1 1-7.12.2005 HUBUSKA
			12 days	2 17-21.06.2006 19-25.11.2006 HUBUSKA,BAS
			14 days	2 30.1-1.2.2007 16-22.9.2007 HUBUSCA BAS +LOGOS
HUNGARY BAS and Hungarian Academy	188	2004-2006	14 days	2 20-26.03.2006 BAS,other resources
HUNGARY BAS and Hungarian Academy	114	2004-2008	14 days	1 7-21.12.2004, BAS
			7 days	1 18-24.11.2007 other resources
			7 days	1 1-6.06.2008 other resources
FINLAND	155	2002-2004	14 days	1 7-21.7.2004, BAS
FRANCE	171	2008-2009	21 days	1 3-23.10, BAS
UKRAINE	102	2008-2011		

2. List of the international projects carried out by scientists/scholars from the structural unit **in the framework of: direct bilateral institute-to-institute agreements; intergovernmental agreements, EU and NATO programmes;**

With which country/ Under which agreement the project is being carried out	Number of the project - see Annex 1	Project duration from – to	Used annual quota under the bilateral agreement	Realized visits for the period from-to; travel expenses - covered by whom
Russia, JINR, Dubna	49,51,67	2004-2006	JINR, Dubna	5 JINR
ADONIS			ADONIS PP-136029	7 ADONIS

EC FU05-CT	13			5 EC FU05-CT
COST 285	168		EC	4 COST 285
COST 290	169		EC	4 COST 290
Center of Exellence	28			6 Center of Exellence
ARCHIMED				2 ARCHIMED
HUBUSKA	94	2004-2007		12 HUBUSKA
LOGOS	93			17 LOGOS
ACCT				4 ACCT
COMTOOCI	160			7 COMTOOCI
EC SOCRATES COMENIUS 2.1	40,41	01.10.2003 01.10.2006	EC	4 EC
DigiCult-BG	149		MTKD	46 DigiCult BG
436-BUL-113/118/0-1 DFG				1 DFG
NATO PST.CLG.979347				1 NATO PST.CLG.979347
NATO CLG.979541	39			4 CLG.979541
NATO CLG.980303				3 NATO CLG.980303
NATO SFP981149	118	2005-2007		5 NATO SFP981149
MONDILEX	90	2008-2010	7th FP of the EC, INF 211938	5 MONDILEX
CHIRON	95	2004-2006	6th FP of the EC	8 CHIRON
BOE-2-2004				6 5 -BOE-2-20041 - hosting country
GUIDE EC,№507498, 6РП	62	2004 -2007		

DIGMAP	81			13 DIGMAP
INRA				2 hosting country
ELOST	4	2006-2007		7 ELOST
PRIME	63	2006 - continues	FP6 IST 016542	10 PRIME
TEMPUS	79			6 TEMPUS
INTAS	91	2007-2009	6th FP	3 INTAS
Center PV 2004-1712/014			SOCRAT	1 7-13.01.SOCRAT
MATHEU	120			4 MATHEU
WEBLads 1582	74			1 WEBLads 1582
ERASMUS	22,23		SOCRATES	8 SOCRATES
Eurologo 2005				1 24-31.08 Eurologo 2005
CEI	167			1 CEI
DALEST	78			1 DALEST
ICMI				1 ICMI
Humboldt Foundation		2004-2007		5 Humboldt Fondation
EC SOCRATES COMENIUS 2.1	40,41	2003 –2006	EC	7 SOCRATES COMENIUS 2.1
Germany DFG	42	2004-2008		3 own funds
Switzerland	43	2003-2004		
France	44	2004-2007		
Austria,RICAM, Austr.Acad.Sci.	52	2005-2008		1 RICAM
Up2UML	5	2005-2007		3 Fraunhofer Institute
Socrates-Erasmus 114-CP-1-BG	6	2005-2008	6000EUR	8 Socrates-Erasmus 114-CP-1-BG

3. Realized visits abroad for participating in **scientific events (congresses, conferences and etc.,** described in the following table:

Country	Total	Supported by (please enumerate the sources of number support)
Australia	**2**	1 – other resources, the organizers, own funds
Austria	**11**	2 – BOE-04-02; hosting country, **,**2- SFP981149 – NATO; 1 – HUBUSKA, SFP981149 – NATO; DIGMAP**,** ACA 2006, hosting country, DIGMAP
Belarus	**1**	IMI-VS
Belgium	**7**	4 – DigiCult Bg, 1 – hosting country., 2 - FP6 IST 016542
Bosnia and Herzegovina	**1**	hosting country + HUBUSCA
Brazil	**2**	Hosting country + NSF I-1301, 1 – NSF NO03
Canada	**2**	2 - hosting country
China	**1**	hosting country
Croatia	**7**	NOI
Cyprus	**42**	10 – NOM; 19 – IMI and other resources,1 – hosting country.; 1 – MATHEU; 6 – НОИ; 1 – other resources, 1 – hosting country. + NOM; 1 – MASSEE, LOGOS
Czech Rep.	**3**	1 – COMTOCHI; 1 пр. стр., other resources
Germany	**28**	1 – NSF IO- 03; 5 – The organizers 1 – other resources, 2 – ERASMUS , 1 – IMI - BM.; 1 – IMI-BM. + other resources.; 5 – hosting country + 2 - other resources, MUSCLE; hosting country., Humboldth foundation., IMI-OMI, DIGMAP, hosting country + IMI-BM, DAAD grant, 4 - the organizers, own funds
Greece	**31**	2 – NSF MM-1401,1 – NSF MM-1106 + other resources; 1 – hosting country.; 8 – NOM; 6 - NOИ, NOM -9; AUB и NSF 1503, NSF-1503, FP6 IST 016542
Georgia	**1**	hosting country
Denmark	**2**	1 – hosting country., 1 – ICMI
Estonia	**22**	NOL
Egypt	**9**	8 – MON, 1 - NOI
France	**21**	1 – NSF 1582; 1 – hosting country, BAS; 3 - hosting country.; LOGOS, PRIME, hosting country + other resources, 1 – БОЕ-04-02; 2 – CHIRON, NATO, ING , 6 - the Université des Antilles et de la Guyane, Guadeloupe the UPMC (Paris 6) Sophia-Antipolis U., Nice
India	**3**	1 – other resources ,1- ICMI , MOH
Iran	**1**	hosting country
Israel	**1**	hosting country
Italy	**13**	2- other resources., 3 – hosting country, 1 – UBM; 1 – DigiCult BG + CEI; 1 – other resources + hosting country.;1 - hosting country + БОЕ, CHIRON; KNOSS, FP6 IST 016542, Organizing Committee of the Conference
Holland	**8**	1 – DigiCult-Bg, 5 – NOL, hosting country., DIGMAP
Kazakhstan	**6**	6 – hosting country
Korea	**2**	2 other resources
Kuwait	**1**	1 – NSF MM1305 и hosting country
Japan	**3**	1 – other resources, MON, hosting country
Lithuania	**3**	1 – DigiCult Bg,1 – other resources.; project 1754 NIS

Lebanon	**1**	1 – hosting country, NSF MM 1305 and Conf. TMSF
Luxemburg	2	The organizers
Macedonia	**34**	10 - DigiCult Bg, 1 – other resources.; 1 – Черн. Храбър, 3-NSF 1105, 6 – NOИ, other resources, FKAA, 10 – NOM, DAAD
Mexico	**12**	4 – NOM, 7 – MON + NOI, IMI-OR
Montenegro	**5**	UNESCO/DIGMAP
Portugal	**5**	1 - DigiCult Bg, 2 - ADONIS, 1 – Socrates 114046; 1 – NSF MM 1305, other resources. + FCAA
Poland	**10**	1 – other resources and hosting country., 1 - Министерство на отбраната,1 – BAS, 4 – other resources, Banach center
Romania	**32**	1 – CE,1 – NSF 0509, 21 – NOM, 6- HOI, 2 - NSF- 1503, organizers
Russia	**84**	1 – NSF I-1002,3 – NOM, 12 – ACCT; 8 – NOM; 7 – NOЛ + other resources.; 1 - Министерство на външните работи,20 – НОЛ; 17 – NOM; 4 MITE и Черн. храбър; 2 – INTAS, 9 – IMI and organizers
Serbia and Montenegro	**10**	5 – DigiCult Bg, 4 – Уч ИМИ, 1 – other resources
Serbia	**12**	hosting country. + other resources, 6 – NOИ и hosting country., 1-NOИ, 1 НОИ + other resources, 3 – hosting country
Moldova	**15**	8 – MON + NOM, 7 - NOI
New Zealand	**1**	IMI-IR
Norway	**2**	IMI-IR., BAS and hosting country
Norway	**1**	BAS + hosting country
Peru	**1**	other resources
Spain	**21**	1 – hosting country.,1 – ELOST; 1 – BOE + hosting country.; 1 – BAS; 1 – IMI-IR.+ hosting country.; 1 – hosting country.; 1 – MASSEE; 2 – other resources + hosting country.; 1 – CHIRON + KNOSS, other resources.; DIGMAP, 9 - NOM
Slovenia	**2**	CEI, TEMPUS
Slovak Republic	**4**	HUBUSCA, 154- NIS-SU, other resources, NSF ИО-03-03
Sweden	**1**	EMS grant
Tunisia	**2**	1 – .and NSF MM 1305, hosting country.
Turkey	**6**	2 – дог. MM 1106, 3 - other resources, DIGMAP
USA	**12**	5 – пр. стр., 1 – DigiCult Bg, 2 – hosting country. + other resources.; IMI, NBU, organizers and NSF-MM1301, organizers
UK	**10**	1 hosting country.., 1- EMS + other resources, 1 – DigiCult Bg, 2 – 2 -IMI-OMI.; 1 – ICMC + UQAM , other resources + hosting country.; EMS + hosting country, HUBUSCA
Ukraine	**3**	3 - other resources
Hungary	**7**	1 – hosting country., 3 – ADONIS; 3 - HUBUSKA
Sweden	**3**	3 – hosting country.;
Switzerland	**1**	1 – other resources
Vietnam	**10**	10 - NOM
Total	**543**	

4. Foreign scientists visiting the research unit

Category of financial conditions	Albania	Algeria	Australia	Austria	Belgium	Byelorussia	Bosnia	Brazil	Canada	Croatia	Czech.	China	Denmark	Hungary	Finland	France	Germany
1. Under a joint project of a bilateral inter academies agreement					**6**									**24**		**1**	**4**
2. Under free quotas of a bilateral agreement of the Academy		**2**			**2**												
3. Under a project of an institute to institute agreement	**1**				**1**								**3**				**9**
4. On invitation extended by the unit			**1**						**1**								**1**
5. At the expense of the sending institution	**5**	**1**	**7**	**2**	**11**		**1**	**2**	**4**		**7**		**3**		**1**	**20**	**33**
6. Under an intergovernmental programme					**8**								**1**	**4**			
7. At visitors' own expense		**2**			**9**	**7**			**5**				**2**	**2**		**2**	**6**
Foreign scientists whose visits exceed two weeks					**2**								**2**		**1**		**1**
TOTAL	**6**	**7**	**8**	**2**	**37**	**7**	**1**	**2**	**10**		**7**		**9**	**30**	**1**	**23**	**54**

Category of financial conditions	Greece	Holland	Hungary	Iran	Ireland	Israel	Italy	Japan	Korea	Lithuania	Latvia	Macedonia	Malta	Moldova	New Zealand	Norway	Poland	Portugal
1. Under a joint project of a bilateral inter academies agreement			24			6											4	
2. Under free quotas of a bilateral agreement of the Academy							4											
3. Under a project of an institute to institute agreement	1	1			1		4			1		6	1		2			
4. On invitation extended by the unit							5			1		2		1			2	
5. At the expense of the sending institution	4	9	1		1		22	17	5	1		14			1	1		4
6. Under an intergovernmental program	1	2	4		1		1	1			1							
7. At visitors' own expense	1		2	6		12	4							2			3	
Foreign scientists whose visits exceed two weeks										1					1			
TOTAL	7	12	31	6	3	18	40	18	5	3	1	22	1	3	3	1	9	4

Category of financial conditions	Romania	Russia	South Africa	Slovakia	Serbia	Spain	Switzerland	Sweden	Tunisia	Turkey	Ukraine	UK	USA	Armenia	Malaysia	Estonia
1. Under a joint project of a bilateral inter academies agreement	7	32		2	3			2			2					
2. Under free quotas of a bilateral agreement of the Academy																
3. Under a project of an institute to institute agreement		49			2						1	1	1			
4. On invitation extended by the unit		4				1										
5. At the expense of the sending institution	7	7	2	1	3	14	3	2	1	8	4		9			
6. Under an intergovernmental program						1							1			
7. At visitors' own expense	5	115			48	3				4	191	6	4	10	1	3
Foreign scientists whose visits exceed two weeks		2														
TOTAL	19	207	2	3	56	19	3	2	1	12	198	7	5	10	1	3
TOTAL	939															

5. Lists of research scientists who have made visits abroad in 2004-2008

5.1.Scientists sent on study stays (scientific degree, title, country).

name	scientific degree, title	country	date	duration of visit
Vesselin Vavrek	Research Fellow	Holland	15.02.2004	13,5 months
Georgi Bojadjiev	Research Fellow	Italy	01.01.2004	22 months
Daniela Vasileva	Research Fellow	Holland	01.01.2004	5 months
Dimitar Gelev	mathematician	UK	01.01.2004	6 months
Milena Dobreva	PhD, Assoc.Prof.	Czech Rep.	10.10.2004	12 months
Todorka Aleksandrova	mathematician	Japan	05.10.2004	42 months
Hristo Kostadinov	Research Fellow	Japan	01.11.2007	24 months

5.2. Scientists who have made long term visits for research or lecturing (scientific degree, title, country, and duration of visit)

name	scientific degree, title	country	date	duration of visit
Atanas Iliev	PhD, Assoc. Prof.	France	20.01.2004	5 months
Blagovest Shishkov	DSc, Prof.	Japan	18.06.2006	3 months
Blagovest Shishkov	DSc, Prof.	Japan	01.05.2008	3 months
Dimatar Gelev	PhD, Research Fellow	China	24.07.2007	2 months
Galina Bogdanova	PhD, Assoc.Prof.	Hungary	27.02.2006	2 months
Georgi Karadjov	DSc, Prof.	Canada	07.09.2004	3 months
Georgy Karadjov	DSc, Prof.	Canada	17.09.2005	3,5 months
Georgi Karadjov	DSc, Prof.	Pakistan	01.01.2007	3 mounths
Georgi Karadjov	DSc, Prof.	Pakistan	21.01.2008	4 months

Eugenia Popova	PhD, Assoc.Prof.	Germany	07.01.2008	month
Eugenia Sendova	PhD, Assoc.Prof.	USA	01.03.2004	6 months
Eugenia Sendova	PhD, Assoc.Prof.	САЩ	01.03.2005	5,5 months
Eugenia Stoimenova	PhD, Assoc.Prof.	Germany	11.10.2006	2 months
Ivan Chipchakov	PhD, Assoc.Prof.	Japan	01.12.2008	3 months
Ilia Iliev	PhD, Assoc.Prof.	China	12.09.2007	2 months
Jivko Atanasov	PhD, Assoc.Prof.	Hungary	2008	3 months
Johan Davdov	DSc, Prof..	USA	27.08.2007	12 months
Julian Revalski	DSc, Prof.	France	01.10.2004	3 months
Julian Revalski	DSc, Prof.	France	26.09.2005	3 months
Julian Revalski	DSc, Prof.	France	01.01.2006	6 months
Jordanka Gortcheva	Research Fellow	USA	01.01.2004	20 months
Kalina Sotirova	Research Fellow	Ирландия	01.03.2005	4 months
Milena Dimova	Research Fellow	UK	29.04.2005	6 months
Nikolay Kutev	DSc, Assoc.Prof.	Germany	01.11. 2007	2 months
Nikolay Manev	PhD, Assoc.Prof.	Korea	27.07. 2007	6 months
Nukolay Nikolov	PhD, Assoc.Prof.	Germany	01.09.2004	2 moths
Nikolay Janev	DSc, Prof.	USA	01.01.2005	6 months
Nikolay Yanev	DSc, Prof.	USA	08.01.2007	6 monnts
Nikolay Yanev	DSc, Prof.	USA	07.01.2008	5 monnts
Ognyan Kounchev	DSc, Prof.	UK and Germany	19.03.2004	3,5 months
Ognian Kounchev	DSc, Prof.	Germany	01.02.2005 12.09.2005	1,5 months 3 months
Ognian Kounchev	DSc, Prof.	Germany	30.01.2006	4 months

Ognian Kounchev	DSc, Prof.	Germany	30.01.2007	4 months
Ognian Kounchev	DSc, Prof.	Germany	1.06.2008 21.09.2008	1 month 1,5 month
Ralitsa Kovacheva	DSc, Prof.	Germany	01.10.2008	1,5 months
Stefan Dodunekov	DSc,Acad.	Hungary	2004	2 months
Stefan Dodunekov	DSc,Acad.	Hungary	2005	2 months
Tatiana Ivanova	DSc, Prof.	Spain	09.05.2006	2 months
Tatiana Ivanova	DSc, Prof.	Italy	09.05.2006	2 months
Tatiana Ivanova	DSc, Prof.	UK	05.10.2006	2,5 months
Tatiana Ivanova	DSc, Prof.	Spain and Italy	30.01.2007	7 months
Tatiana Ivanova	DSc, Prof.	UK	14.01.2008	6 months
Tatiana Ivanova	DSc, Prof.	Italy	25.07.2008	2 mounts
Tsonka Baicheva	PhD, Assoc. Prof.	Hungary	04.10.2004	2 months
Tsonka Baicheva	PhD, Assoc. Prof.	Hungary	04.04.2005	1,5 months
Tsvetomir Tsachev	PhD, Assoc.Prof.	Austria	01.05.2006	2 months
Tsvetomir Tsachev	PhD, Assoc.Prof.	Austria	01.10.2008	2 months
Tsviatko Rangelov	DSc, Prof.	Germany	18.09.2006	2 months
Tsviatko Rangelov	DSc, Prof.	Germany	19.01.2007	2 months
Tsviatko Rangelov	DSc, Prof.	Germany	08.01.2008 22.09.2008	2 months 3 months
Ventsislav Valev	DSc, Prof.	Poland	06.10.2008	4 months
Vesselin Drensky	DSc, Prof.	HongKong	09.04.2008	2 months

5.3. Scientists who by December 31 2008 are still abroad on permitted unpaid leave (name, scientific degree, title scientific degree, title,, date of beginning of visit.)

name	scientific degree, title,	country	date of beginning of visit.
Andrey Todorov	PhD, Assoc.Prof.	USA	01.01.2004-8,
Asen Donchev	DSc., Prof.	USA	14.09.2004-5, 23.06.2006, 16.06.2007, 01.01.2008
Blajka Marinova	Programmer	Canada	01.08.2007 01.01.2008
Valery Kovachev	PhD, Assoc.Prof.	Turkey	09.08.2004-5 14.08.2006, 20.08.2007, 01.09.2008
Valentin Brimkov	PhD, Assoc.Prof.	USA	13.08.2004-5, 23.08.2006, 27.08.2007, 21.08.2008
Valeri Stefanov	PhD, Assoc.Prof.	Australia	01.01.2004-5, 01.09.2006, 28.07.2007 01.01.2008
Vasil Angelov	Research Fellow	USA	01.01.2004
Vasil Kanev	PhD, Assoc.Prof.	USA Italy	07.09.2006, 17.09.2007, 08.09.2008
Venzeslav Valev	DSc., Prof.	USA	17.08.2004-5, 28.08.2006
Veselin Petkov	DSc., Prof.	France	02.08.2004, 11.08.2005, 15.08.2006, 27.08.2007,
Vestislav Apostolov	PhD Research Fellow	USA	15.06.2004-5, 06.08.2007 01.08.2008
Vladimir Georgiev	DSc., Prof.	Italy	06.10.2004-5, 28.08.2006, 01.09.2008
Vladimir Veliov	PhD, Assoc.Prof.	Austria	09.08.2004-8, 01.08.2006, 06.08.2007, 07.08.2008
Vladimir Zanev	PhD, Assoc.Prof.	USA	14.06.2004, 01.09.2005, 06.06.2006, 16.07.2007,

name	scientific degree, title,	country	date of beginning of visit.
			01.01.2008
Vladimir Kaishev	PhD, Assoc.Prof.	UK USA	01.10.2004 01.10.2005, 01.01.2006-8
Georgi Boshnakov	PhD, Assoc.Prof.	UK USA	08.09.2004 08.11.2005 01.01.2006-8
Georgi Popov	DSc., Prof.	France	20.10.2004-5, 11.09.2006, 20.10.2007, 01.09.2008
Georgi Raikov	DSc., Prof.	France	01.03.2004, 01.02.2005, 20.02.2006, 01.01.2007, 04.03.2008
Georgi Tomanov	PhD, Assoc.Prof.	France	18.09.2004-5, 01.09.2006-7, 15.09.2008
Georgi Janev	PhD Research Fellow	USA	01.01.2004-8
Darinka Marinova	PhD Research Fellow	USA	02.08.2004-5, 24.07.2006, 01.01.2007-8
Denka Kuzarova	PhD, Assoc.Prof.	USA	04.09.2004, 24.07.2005-6, 11.07.2007, 16.07.2008
Dimitar Stefanov	mathematician	USA	01.01.2004-8
Dimitar Tsiganchev	mathematician	USA	01.01.2004, 06.08.2005 01.01.2006, 09.07.2007, 01.01.2008
Danio Danev	mathematician	Swede Holland	01.01.2004, 01.01.2005-8
Evgeni Belogai	mathematician	USA	01.01.2007, 01.07.2008
Elza Farhi	PhD, Assoc.Prof.	Israel	01.01.2004-8
Ivan Bazlekov	PhD Research Fellow	Holland	01.09.2004, 01.01.2005, 01.10.2006, 01.01.2007-8
Ivan Koychev	Research Fellow	Germany	01.08.2004
Yordanka Gorcheva	Research Fellow	USA	01.01.2004

name	scientific degree, title,	country	date of beginning of visit.
Johan Davidov	PhD, Assoc.Prof.	Canada	16.08.2004
Lachezar Stoyanov	DSc., Prof.	Australia	01.01.2004, 01.08.2005, 01.01.2006, 25.06.2007, 01.07.2008
Ludmil Zikatanov	PhD,mathematician	USA	01.01.2004
Maya Daneva	mathematician	Canada	01.01.2004-8
Maksim Todorov	PhD, Assoc. Prof.	Mexico USA	26.07.2004, 27.08.2007 14.08.2006
Maria Gabrovska	Research Fellow	Germany	01.01.2004,5, 19.05.2008
Milena Dimova	PhD, Research Fellow	USA	28.08.2006, 01.02.2007
Nikolay Kolev	PhD Research Fellow	Brazil	01.01.2004-8
Nikolay Trendafilov	PhD Research Fellow	Belgium	01.09.2004-6, 01.01.2007, 15.08.2008
Oleg Iliev	PhD, Assoc.Prof.	Germany	01.09.2004, 01.02.2005, 01.01.2006, 02.01.2008
Ognian Trifonov	PhD, Assoc.Prof.	USA	01.07.2004-5, 21.06.2006, 01.01.2007, 01.07.2008
Pencho Petrushev	DSc., Prof.	USA	29.09.2004-5, 17.08.2006, 20.08.2007, 18.08.2008
Petar Kazakov	Research Fellow	Holland	01.01.2004-8
Petar Topalov	PhD, Assoc.Prof.	Switzerland	15.09.2004-5, 15.08.2006, 03.09.2007, 01.01.2008
Petar Shopov	PhD, Assoc.Prof.	Canada	01.01.2004
Radostina Terzieva	Research Fellow	Holland	01.01.2004
Raicho Lazarov	DSc., Prof.	USA	16.06.2004, 04.07.2005, 02.05.2006, 01.01.2007
Rosen Rashev	Research Fellow	Germany	01.01.2004-5, 01.12.2006, 01.01.2007-8

name	scientific degree, title,	country	date of beginning of visit.
Rosica Semerdzieva	PhD,Assoc. Prof.	USA	20.09.2004, 11.11.2007 01.12.2008
Ruslan Mitkov	PhD,Assoc. Prof.	UK	01.01.2004-8
Sviatoslav Brainov	Research Fellow	USA	16.08.2004, 25.07.2005-6, 01.08.2007 01.08.2008,
Slavian Radev	PhD,Assoc. Prof.	Poland	01.09.2004-6, 03.09.2007, 01.09.2008
Strashimir Popvasilev	Research Fellow	USA	13.08.2004-5, 01.01.2006-8
Tanya Vasilevska	PhD,Assoc. Prof.	USA	01.01 2004, 11.07.2005, 18.10.2006, 01.01.2007, 15.08.2008
Tatiana Ivanova	PhD,Assoc. Prof.	USA	01.01.2006
Toma Tonev	PhD,Assoc. Prof.	USA	01.01.2004,5,
Todorka Alexandrova	mathematician	Japan	05.04.2008
Todor Gramchev	PhD,Assoc. Prof	Italy	10.09.07 14.09.2008
Hristo Bojadjiev	PhD, Assoc.Prof.	USA	01.07.2004, 01.01.2005-6 01.07.2007 01.01.2008
Yuliana Goranova	Programmer	France	10.12.2008
Yulita Vasileva	mathematician	Canada	01.01.2004-6 01.02.2007 01.01.2008

6. Number of visits abroad made throughout 2004-2008 on organizational or administrative missions

2004 – 15;
2005 – 19;
2006 – 20,
2007 – 21;
2008 – 15;

List of scientists from the unit, participating in editorial boards

This information should be given as a total for the period:

12.1. of journals in Bulgarian (the journal has to be indicated)

Prof. Stoyan Nedev

- Mathematica Balkanica

Assoc. Prof. Georgi Ganchev

- Mathematica Balkanica
- Mathematica Plus

Prof. Jordan Tabov

- Обучението по математика и информатика (Education in Mathematics and Informatics) (1984 on)
- *Didactical Modeling*

Prof. Sava Grozdev

- *Matematika* + (**editor-in-chief**)
- *Didactical Modeling*

Assoc. Prof. Evgenia Sendova

- Serdica Journal of Computing
- *Mathematics and Informatics* journal published by the Bulgarian Ministry of Education, co-editor
- *Innovative didactic for web-based learning,* co-editor with I. Nikolova, 2008 *Didactical Modeling*

Assoc. Prof. Borislav Lazarov

- Didactical Modeling (an electronic journal) – **editor-in-chief** (2006 on)
- Matematika +
- *Didactical Modeling* – **Editor-in-Chief**

Assoc. Prof. Toni Chehlarova

- Matematika +
- *Didactical Modeling*

Assistant Prof. Yordanka Gorcheva

- National Tournament Chernorizec Hrabar

Prof. Vesselin Drensky

- Serdica Mathematical Journal (Editor-in-Chief)

Assoc. Prof. Vassil Kanev

- Serdica Mathematical Journal (Member of the editorial board)

Assoc. Prof. K.Markov

- International Journal "Information Theories & Applications"
- International Journal "Information Technologies and Knowledge"

Prof. Petar Stanchev

- Serdica Journal of Computing
- International Journal "Information Theories & Applications"
- International Journal "Information Technologies and Knowledge"

Assoc. Prof. Avram Eskenazi:

- Annals of Mathematics, Computing and Teleinformatics
- Serdica Journal of Computing
- International Journal on ITA

Assoc. Prof. Rumiyana Kirkova:

- International Journal on ITA
- International Journal on ITK

Assoc. Prof. Radoslav Pavlov

- Serdica Journal of Computing. ISSN 1312-6555. 2007-

Assoc. Prof. Ivan Derzhanski

- Serdica Journal of Computing. ISSN 1312-6555. 2007-

Assoc. Prof. Alexander Gerov

- Serdica Journal of Computing

Acad. Stefan Dodunekov :

- Serdica Journal of Computing
- Serdica Mathematical Journal
- Mathematica Balkanica
- Matematika

Assoc. Prof. Krassimir Manev

- Serdica Journal of Computing

Assoc. Prof. Peter Boyvalenkov

- Matematika

Assoc. Prof. Emil Kolev

- Matematika

Assoc. Prof. Milena Dobreva

- International Journal Information Theories and Applications

- Serdica Journal of Computing, ISSN 1312-6555

Assoc. Prof. Plamen Mateev

- Serdica Journal of Computing, ISSN 1312-6555

Prof. Nikolay Yanev

- Serdica Mathematical Journal
- Pliska

Prof. Pencho Petrushev

- Serdica Mathematical Journal

Prof. Ivan Dimovski

- Fractional Calculus & Applied Analysis" (FCAA, Internat. J. Theory & Appl-s, ISSN 1311-0454), IMI-BAS, Sofia; (www.math.bas.bg/~fcaa, www.diogenes.bg/fcaa) – Member of Editorial Board

Assoc. Prof. Virginia Kiryakova

- Managing Editor: "Fractional Calculus & Applied Analysis" (FCAA, Internat. J. Theory & Appl-s, ISSN 1311-0454), IMI-BAS, Sofia; (www.math.bas.bg/~fcaa, www.diogenes.bg/fcaa)
- Editor in Chief: "International J. Appl. Mathematics" (IJAM, ISSN 1311-1728), Acad. Publ., Sofia; (www.diogenes.bg/ijam)
- Editor of "Mathematica Balkanica" (ISSN 0205-3217), Bulg Acad Sci., Sofia (http://www.mathbalkanica.info/board.htm)

Prof. Oleg Mushkarov

- Serdica Mathematical Journal, (ISSN**:** 1310-6600) – Member of Editorial Board

Acad. Petar Kenderov

- Mathematica Balkanica
- Compt. Rend. Acad. Bulg. Sci.

Prof. Julian Revalski

- Serdica Mathematical Journal
- Mathematica Balkanica

Prof. Assen Donchev

- Serdica Mathematical Journal
- Mathematica Balkanica

Tatyana Parkhomenko

- Serdica Mathematical Journal, secretary

Assoc. Prof. Ivaylo Kortezov

- Matematika Plus

Assist. Prof. Emil Kelevedjiev

- Matematika Plus

Acad. P. Popivanov

- C.R. Acad. Bulg. Sci. (in English)
- Journal "Nauka" (in Bulgarian)

Assoc. Prof. Ilia Iliev

- Serdica Mathematical Journal

12.2. of journals abroad (the journal has to be indicated)

Prof. Jordan Tabov

- Indexes of Mathematical Problems, Math Pro Press, USA (1994 on)
- Mathematics Competitions Enrichment Series, AICME, Australia (1993 on)
- Mathematics and Informatics Quarterly, SCT Publishing, Singapore (1991 on). (**Editor-in-Chief** 1991-2000)
- Teaching of Mathematics (Published in Serbia)
- Indexes of Mathematical Problems, Math Pro Press, USA

Prof. Sava Grozdev

- *Journal of Theoretical and Applied Mechanics*
- *Mediterranean Journal for Research in Mathematics Education*
- *Sigma* (Published in FYROM)
- *Creativitate Matematica*(Published in Romania)
- *Integral* (Published in Armenia)

Assoc. Prof. Evgenia Sendova

- *INFORMATIKA* (Published in Lithuania)
- *International Journal of Computers for Mathematical Learning* , Kluwer Academiv Publishers,co-editor (Current)
- *Meetings in mathematics* (editor) – Published in the frames of 226159-CP-1-2005-1-Comenius-C21, Demetra Publishing House, Sofia, Bulgaria, 2008, ISBN 978-954-9526-49-3

Assoc. Prof. Borislav Lazarov

- Mathematics and Informatics Quarterly, SCT Publishing, Singapore (1991 on)

Assoc. Prof. Ivan Chipchakov

- Acta Universitatis Apulensis (Member of the editorial board)

Assoc. Prof. Valentin Iliev

- MATCH Communications in Mathematical and in Computer Chemistry (Member of the editorial board)

Prof. Peter Stanchev

- Scientific Journal International

Assoc. Prof. Ivan Derzhanski

- Journal Vinyar Tengwar, ISSN 1054-7606. 2003

Prof. Ventzeslav Valev

- International Journal of Machine GRAPHICS & VISION
- International Journal for Computational Vision and Biomechanics, Serials Press

Assoc. Prof. Valentin Brimkov

- Pattern Recognition (Elsevier)
- Discrete Applied Mathematics (Elsevier)
- International Journal on Imaging Systems and Technology (Wiley)

Acad. Stefan Dodunekov :

- Asian-European Journal of Mathematics

Prof. Ivan Landjev

- Advances in Mathematics of Communication

Prof. Nikolay Yanev

- Mathematical Modeling in Biology

Prof. Blagovest Shishkov

- International Journal of Neural Networks and Applications

Prof. Elisaveta Pancheva

- ProbStat Forum (ISSN 0974-3235)

Prof. Ljuben Mutafchiev

- member of the Advisory Board in Kuwait Journal of Science and Engineering.

Dr George Yanev

- Journal of Statistical Theory and Applications ISSN 1538-7887 Gowas Publishing House Pennsylvania, USA

Dr Nikolay Kolev

- Economic Quality Control

Assoc. Prof. Valery Stefanov

- Associate Editor (responsible for all submissions in Probability and Statistics) in Journal of the Australian Mathematical Society

Assoc. Prof. Ralitza Gueorguieva

- Journal of the Royal Statistical Society, Series A
- Central European Journal of Medicine
- Biological Psychiatry

Prof. P. Petrushev

- Approximation theory and its applications
- East Journal on Approximations
- Constructive Approximation

Prof. Angela Slavova

- WSEAS Transactions on Circuits and Systems - editor
- Journal of Nonlinear Analysis and Applied Mathematics
- International Journal on Neural Networks and Applications, Editor-in-chief

Assoc. Prof. Valery Covacnev

- African Diaspora Journal of Mathematics - editor
- International Journal: Mathematical Manuscripts - editor
- Journal of Advanced Researches on Dynamical and Control Systems - editor
- International Journal of Mathematics and Computation - editor

Assoc. Prof. Zhivko Atanassov

- J. of Mathematical Analysis and Applications (ISSN**:** 0022-247X), Elsevier

Prof. Johan Davidov

- JP Journal of Geometry and Topology.

Assoc. Prof. Virginia Kiryakova

- "Mathematical Sciences Research J." (MSRJ, ISSN 1087-9919), Internat. Publ., FL-USA, http://www.globalpubco.com/
- **"**J. Concrete and Applied Mathematics" (JCAM, ISSN 1548-5390, 1559-176X), Eudoxus Press, TN-USA, http://www.eudoxuspress.com/
- International Journal of Mathematics and Mathematical Sciences" (IJMMS, ISSN 0161-1712), Hindawi Publ.– USA, (until 2007)
- **„**Advances in Applied Mathematical Analysis" (AAMA, ISSN 0973-5313), Research India Publications, http://www.ripublication.com/aama.htm
- "J. of Approx. Theory and Applications" (JATA, ISSN 0973-287X), Serials Publications - New Delhi, http://www.serialspublications.com/
- "Jordan J. of Mathematics and Statistics" (JJMS) **,** Ministry of Higher Educ. and Sci. Re.- Jordan, http://jjms.yu.edu.jo/

Prof. Raycho Lazarov

- Computational Methods in Applied Mathematics (Editor, 2000-present);
- East-West Journal on Numerical Mathematics (Member of Editorial Board, 1992-present)
- Numerical Methods for Partial Differential Equations (Member of Editorial Board, 1990-present);

Assoc. Prof. Oleg Iliev

- Computational Methods in Applied Mathematics (Member of Editorial Board, 2004-present)
- Mathematical Modelling and Analysis (Member of the Editorial Board, 2004-present)

Acad. Petar Kenderov

- Set-Valued Analysis (Kluwer Acad. Publishers);
- Convex Analysis (Helderman Verlag, Deutschland);
- Matematicki Vesnik (Beograd);
- Mathematics and Informatics Quarterly (Singapore);

Prof. Julian Revalski

- Guest Editor: SIAM J. Optimization, 18 (2007), Special Issue "Variational analysis and optimization".

Prof. Assen Donchev

- SIAM Journal on Control and Optimization
- SIAM Journal on Optimization
- Mathematical Reviews
- Journal of Dynamical System and Control
- Computational Optimization and Appl.
- Journal of Industrial and Management Optimization

Assoc. Prof. Darinka Dentcheva

- SIAM J. Optimization, Associate editor

Assoc. Prof. Vladimir Veliov

- Central European Journal of Mathematics
- The Open Cybernatics & Systemics Journal

Prof. Svetoslav Markov

- Editorial board of the Journal Reliable Computing

Acad. P. Popivanov

- Annali di Univ. di Ferrara – Nuova seria, Sez.VII – Mat.

Assoc. Prof. PLamen Mateev:

- International Journal of Information Theories, ed. Kr.Markov-2005/6

Assoc. Prof. Milena Dobreva

- 2003. – Editorial Board of J. Review of the National Digitization Center, Serbia and Montenegro.
- International Journal Information Theories and Applications-2004

Assoc. Prof. Stoyan Poryazov

- J. Inform. Technol.&Knowledge, Vol.1/2007, 12007, Member Intern., Edit. Board