

Volume 59 of PROCEEDINGS includes the papers presented at the scientific conference RU & SU'20, organized and conducted by University of Ruse "Angel Kanchev" and the Union of Scientists - Ruse. Series 11.1. contains papers reported in the Social Sciences and Humanities & Pedagogy, Psychology, Teaching Methodology and Technical Sciences sections.

Book	Code	Faculty and Section
Agrarian and Industrial Faculty		
1.1.	FRI-ONLINE-1-AMT&ASVM	Agricultural Machinery and Technologies, Agrarian Science and Veterinary Medicine
	FRI-ONLINE-1-MR	Maintenance and Reliability
	FRI-ONLINE-1-THPE	Thermal, Hydro- and Pneumatic Equipment
	FRI-ONLINE-1-EC	Ecology and Conservation
	FRI-ONLINE-1-ID	Industrial Design
1.2.	WED-ONLINE-SSS-AMT&ASVM	Agricultural Machinery and Technologies, Agrarian Science and Veterinary Medicine
	WED-ONLINE-SSS- MR	Maintenance and Reliability
	WED-ONLINE-SSS-THPE	Thermal, Hydro- and Pneumatic Equipment
	WED-ONLINE-SSS-EC	Ecology and Conservation
	WED-ONLINE-SSS-ID	Industrial Design
Faculty of Mechanical and Manufacturing Engineering		
2.1.	FRI-ONLINE-1-MEMBT	Mechanical Engineering and Machine-Building Technologies
2.2.	WED-ONLINE-SSS-MEMBT	Mechanical Engineering and Machine-Building Technologies
Faculty of Electrical Engineering Electronics and Automation		
3.1.	FRI-ONLINE-1-EEEE	Electrical Engineering, Electronics and Automation
3.2.	FRI-ONLINE-1-CCT	Communication and Computer Technologies
3.3.	THU-ONLINE-SSS-EEEE	Electrical Engineering, Electronics and Automation
	THU-ONLINE-SSS-CCT	Communication and Computer Technologies
Faculty of Transport		
4.1.	FRI-2.209-1-TMS	Transport and Machine Science
4.2.	FRI-2.204-SITSTL	Sustainable and Intelligent Transport Systems, Technologies and Logistics
4.3.	WED-ONLINE-SSS-TMS	Transport and Machine Science
Faculty of Business and Management		
5.1.	FRI-ONLINE-1-EM	Economics and Management
5.2.	FRI-ONLINE-1-ESSIR	European Studies, Security and International Relations
5.3.	THU-ONLINE-SSS-EM	Economics and Management
Faculty of Natural Sciences and Education		
6.1.	FRI-ONLINE-1-MIP	Mathematics, Informatics and Physics
6.2.	FRI-ONLINE-1-PP	Pedagogy and Psychology
6.3.	FRI-ONLINE-1-LL	Linguistics and Literature
	FRI-ONLINE-1-AS	Art Studies
6.4.	FRI-ONLINE-1-ERI	Education - Research and Innovations
6.5.	THU-ONLINE-SSS-FM	Financial Mathematics
	THU-ONLINE-SSS-PP	Pedagogy and Psychology

Faculty of Law		
7.1	FRI-ONLINE-1-LS	Law Studies
7.2	FRI-ONLINE-1-NS	National Security
7.3	MON-ONLINE-SSS- L	Law Studies
Faculty of Public Health and Health Care		
8.1	FRI-ONLINE-1-HP	Health Promotion
8.2	FRI-ONLINE-1-SW	Social Work
8.3	FRI-ONLINE-1-HC	Health Care
8.4	FRI-ONLINE-1-MCDA	Medical and Clinical Diagnostic Activities
8.5	THU-ONLINE-SSS-HP	Health Promotion
	THU-ONLINE-SSS-SW	Social Work
	WED-ONLINE-SSS-HC	Health Care
Quality of Education Directorate		
9.1.	FRI-ONLINE-QHE	Quality of Higher Education
Razgrad Branch of the University of Ruse		
10.1	FRI-LCR-1-CT(R)	Chemical Technologies
10.2	FRI-LCR-1-BFT(R)	Biotechnologies and Food Technologies
10.3	TUE-ONLINE-SSS-BFT(R)	Biotechnologies and Food Technologies
	TUE-ONLINE-SSS-CT(R)	Chemical Technologies
Silistra Branch of the University of Ruse		
11.1	FRI-ONLINE-SSH(S)	Social Sciences and Humanities
	FRI-ONLINE-PPTM(S)	Pedagogy, Psychology and Teaching Methodology
	FRI-ONLINE-TS(S)	Technical Sciences
11.2	FRI-ONLINE-SSS-SSH(S)	Social Sciences and Humanities
	FRI-ONLINE-SSS-PPTM(S)	Pedagogy, Psychology and Teaching Methodology
	FRI-ONLINE-SSS-TS(S)	Technical Sciences

The papers have been reviewed.

ISSN 1311-3321 (print)

ISSN 2535-1028 (CD-ROM)

ISSN 2603-4123 (on-line) Copyright © authors

The issue was included in the international ISSN database, available at <https://portal.issn.org/>.

The online edition is registered in the portal ROAD scientific resources online open access



PROGRAMME COMMITTEE

- **Prof. Amar Ramdane-Cherif**
University of Versailles, France
- **Assoc. Prof. Manolo Dulva HINA**
ECE Paris School of Engineering, France
- **Prof. Leon Rothkrantz**
Delft University of Technology, Netherlands
- **Assoc. Prof. Antonio Jose Mendes**
University of Coimbra, Portugal
- **Prof. Ville Leppanen**
University of Turku, Finland
- **Assoc. Prof. Marco Porta**
University of Pavia, Italy
- **Prof. Douglas Harms**
DePauw University, USA
- **Prof. Zhanat Nurbekova**
L. N. Gumilyov Eurasian National University, Nur Sultan, Kazakhstan
- **Prof. Mirlan Chynybaev**
Kyrgyz State Technical University, Bishkek, Kyrgyzstan
- **Prof. Ismo Hakala, PhD**
University of Jyväskylä, Finland
- **Prof. Dr. Artur Jutman**
Tallinn University of Technology, Estonia
- **Prof. RNDr. Vladimír Tvarozek, PhD**
Slovak University of Technology in Bratislava, Bratislava, Slovakia
- **Doc. Ing. Zuzana Palkova, PhD**
Slovak University of Agriculture in Nitra, Nitra, Slovakia
- **Andrzej Tutaj, PhD**
AGH University of Science and Technology, Krakow, Poland
- **Prof. Valentin NEDEFF Dr. eng. Dr.h.c.**
“Vasile Alecsandri” University of Bacău, Romania
- **Dr. Cătălin POPA**
“Mircea cel Bătrân” Naval Academy, Constantza, Romania
- **Prof. dr Larisa Jovanović**
Alfa University, Belgrade, Serbia
- **Prof. dr hab. Edmund LORENCOWICZ**
University of Life Sciences in Lublin, Poland
- **Assoc. Prof. Ion MIERLUS - MAZILU, PhD**
Technical University of Civil Engineering, Bucharest, Romania
- **Prof. Dojčil Vojvodić PhD**
Faculty of Philosophy, University of Novi Sad, Serbi
- **Assoc. Prof. Alexandrache Carmen, PhD**
Department of Teacher Training, “Dunarea de Jos”, Galati University, Romania
- **Prof. Alberto Cabada**
University of Santiago de Compostela, Faculty of Mathematics, Santiago de Compostela, Spain
- **Kamen Rikev, PhD**
Institute of Slavic Philology, Maria Curie-Skłodowska University in Lublin, Poland
- **Dra. Clotilde Lechuga Jiménez, PhD**
Education Science Faculty (Teatinos Campus), University of Malaga (Spain)
- **Assoc. Prof. Despina Sivevska, PhD**
Faculty of Educational Sciences, University "Goce Delcev"-Stip, Macedonia

- **Liqaa Habeb Al-Obaydi, PhD**
English Department, College of Education for Human Sciences, University of Diyala, Iraq
- **Prof. Igor Kevorkovich Danilov, DSc**
Yuri Gagarin State Technical University of Saratov, Russia
- **Prof. Aleksander Valentinov Sladkowski, DSc**
Silesian University of Technology, Poland
- **Prof. Dr. Vera Karadjova,**
“St. Kliment Ohridski” University – Bitola, Faculty of tourism and hospitality – Ohrid, Republic of North Macedonia
- **Prof. Dr. Aleksandar Trajkov**
“St. Kliment Ohridski” University - Bitola, Faculty of tourism and hospitality – Ohrid, Republic of North Macedonia
- **Prof. Dr. Petar Pepur**
University of Split, Croatia
- **Prof. Dr. Korhan Arun**
Namik Kemal University, Tekirdağ, Turkey
- **Prof. Yuliya Yorgova, PhD**
Burgas Free University, Bulgaria
- **Prof. Claudia Popescu, PhD**
Bucharest University of Economic Studies, Romania
- **Prof. Dr. Gerhard Fiolka**
University of Fribourg, Switzerland
- **Prof. Haluk Kabaalioglu, PhD**
Yeditepe University, Turkey
- **Prof. Silva Alves, PhD,**
University of Lisbon, Portugal
- **Hanneke van Brugge, DHC mult**
Appeldoorn, The Netherlands
- **Prof. Nino Žganec, DSc**
President of European Association of Schools of Social Work, University of Zagreb, Croatia
- **Prof. Violeta Jotova**
Direction Pediatrics at St. Marina University Hospital - Varna, Bulgaria, Chair ESPE
Postgraduate Qualification Committee
- **Prof. Tanya Timeva, MD, PhD**
Obstetrics and Gynecology Hospital "Dr. Shterev", Sofia, Bulgaria
- **Prof. Kiril Stoychev, PhD,**
Institute of Metal Science, Equipment and Technologies “Acad. A. Balevsci” with
Haydroaerodinamics centre – BAS, Bulgaria
- **Assoc. Prof. Mark Shamtsyan, PhD**
Technical University, Saint Petersburg, Russia
- **Assoc. Prof. Oleksii Gubenia, PhD**
National University of Food Technologie, Kiev, Ukraine
- **Assoc. Prof. Olexandr Zaichuk, DSc**
Ukrainian State University of Chemical Technology, Dnepropetrovsk, Ukraine
- **Prof. Eugene Stefanski, DSc**
Samara University, Russia
- **Doc. Dr Tatiana Strokovskaya**
International University of Nature “Dubna”, Dubna, Russia
- **Prof. DSc. Petar Sotirov**
Maria Curie-Sklodowska University of Lublin, Poland
- **Prof. Papken Ehasar Hovsepian**
Sheffield Hallam University, Sheffield, UK

- **Accos. Prof. Krassimir Dochev Dochev, PhD**
University of Portsmouth School of Engineering, UK
- **Mariana Yordanova Docheva, PhD**
University of Portsmouth School of Engineering, UK
- **Assoc. Prof. Ivan Antonov Lukanov, PhD**
University of Botswana, Faculty of Engineering and Technology, Gaborone, Botswana
- **Assoc. Prof. Petko Vladev Petkov, PhD**
Research Associate Cardiff University, UK
- **Prof. Stepan Terzian DSc**
Bulgarian Academy of Science, Bulgaria
- **Prof. Dr. Gabriel Negreanu**
University Politehnica of Bucharest, Romania

ORGANISING COMMITTEE

- ◆ **ORGANIZED BY: UNIVERSITY OF RUSE (UR) AND UNION OF SCIENTISTS (US) - RUSE**
- ◆ **ORGANISING COMMITTEE:**
 - **Chairperson:**
COR. MEM Prof. Hristo Beloev, DTSc – Rector of UR, Chairperson of US - Ruse
 - **Scientific Secretary:**
Prof. Diana Antonova PhD, Vice-Rector Research,
dantonova@uni-ruse.bg, 082/888 249
 - **Members:**
 - **Agricultural Machinery and Technologies, Agrarian Sciences and Veterinary Medicine**
 - **Maintenance and Reliability**
 - **Thermal, Hydro- and Pneumatic Equipment**
 - **Ecology and Conservation**
 - **Industrial Design**
Assoc. Prof. Plamen Manev,
pmanev@uni-ruse.bg, 082 888 542
 - **Pedagogy, Psychology and Teaching Methodology; (16.10., Silistra)**
Assoc. Prof. Diana Zhelezova-Mindizova, PhD,
dmindizova@uni-ruse.bg
 - **Social Sciences and Humanities (16.10., Silistra)**
Assoc. Prof. Romyana Lebedova, PhD,
rlebedova@uni-ruse.bg
 - **Technical Sciences (16.10., Silistra)**
Assoc. Prof. Konstantin Koev, PhD,
kkoev@uni-ruse.bg
 - **Chemical Technologies (06-07.11., Razgrad)**
 - **Biotechnologies and Food Technologies (06-07.11., Razgrad)**
Assoc. Prof. Tsvetan Dimitrov, PhD,
conf_rz@abv.bg, 0887 631 645
 - **Mechanical Engineering and Machine-building Technologies**
Assoc. Prof. Dimitar Dimitrov, PhD,
ddimitrov@uni-ruse.bg, 0886 474 834, 082/888 653
 - **Electrical Engineering, Electronics and Automation**
Assoc. Prof. Boris Evstatiev, PhD,
bevstatiev@uni-ruse.bg, 082 888 371
 - **Communication and Computer Systems**
Assoc. Prof. Galina Ivanova, PhD, giivanova@uni-ruse.bg, 082 888 855
Pr. Assist. Ivanka Tsvetkova, PhD, itsvetkova@uni-ruse.bg, 082 888 836
 - **Transport and Machine Science**
Assoc. Prof. Simeon Iliev, PhD,
spi@uni-ruse.bg, 082 888 331
 - **Sustainable and intelligent transport systems, technologies and logistics**
Prof. Velizara Pencheva, PhD,
vpencheva@uni-ruse.bg, 082 888 558, 082 888 608

- **Economics and Management**
Pr. Assist. Miroslava Boneva, PhD, mboneva@uni-ruse.bg, 082/888 776
Pr. Assist. Elizar Stanev, PhD, estanev@uni-ruse.bg, 082/888 703
- **European studies, security and international relations**
Prof. Vladimir Chukov, DSc, vlachu1@gmail.com, +359 82 825 667
Assoc. Prof. Mimi Kornazheva, PhD, mkornazheva@uni-ruse.bg, +359 82 825 667
- **Mathematics, Informatics and Physics**
Prof. Tsvetomir Vasilev, PhD,
tvasilev@uni-ruse.bg, 082/888 475
- **Education – Research and Innovations**
Assoc. Prof. Emilia Velikova, PhD,
evelikova@uni-ruse.bg, 0885 635 874
- **Pedagogy and Psychology**
Assoc. Prof. Bagryana Ilieva, PhD,
bilieva@uni-ruse.bg 082 888 219
- **History, Ethnology and Folklore**
Pr. Assist. Reneta Zlateva, PhD
rzlateva@uni-ruse.bg, 082/888 752
- **Linguistics, Literature and Art Science**
Assoc. Prof. Velislava Doneva, PhD,
doneva_v@uni-ruse.bg, 0886 060 299
- **Health Promotion**
Assoc. Prof. Stefka Mindova, PhD,
smindova@uni-ruse.bg, 0882 895 149
- **Social Work**
Prof. Sasho Nunev DSc,
snunev@uni-ruse.bg, 0886 802 466
- **Medical and clinical diagnostic activities**
Assoc. Prof. Nikola Sabev, DSc,
nsabev@uni-ruse.bg, 0882 123 305
- **Health Care**
Pr. Assist. Greta Koleva, PhD,
gkoleva@uni-ruse.bg, 0882 517 173
- **Law**
Assoc. Prof. Elitsa Kumanova, PhD,
ekumanova@uni-ruse.bg, 0884 980 050
- **National Security**
Assoc. Prof. Milen Ivanov, DSc,
poligon@abv.bg, 082 888 736
- **Quality of Higher Education**
Prof. Ivanichka Serbezova, PhD, iserbezova@uni-ruse.bg
Daniela Todorova, dtodorova@uni-ruse.bg, 082 888 378.
- **Silistra Branch of the University of Ruse**
Assoc. prof. Galina Lecheva, PhD,
glecheva@uni-ruse.bg, 0885400647

• **REVIEWERS:**

Assoc. Prof. Rumyana Lebedova, PhD
Assoc. Prof. Galina Lecheva, PhD
Assoc. Prof. Diana Zhelezova, PhD
Assoc. Prof. Konstantin Koev, PhD
Assoc. Prof. Evgenia Goranova, PhD

PLENARY SESSION

Content

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1. FRI-110-2-KS(S)-01
Influence of the University of Ruse in the Danube Region
<i>COR. MEM Prof. Hristo Beloev, DTSc – Rector of UR, Chairperson of US - Ruse</i> | 13 |
| 2. FRI-110-2-KS(S)-02
New Generations and the Education System
<i>Milena Damianova, Chairperson of the Committee on Education and Science in the 44th National Assembly of the Republic of Bulgaria</i> | 18 |

SOCIAL SCIENCES AND HUMANITIES

Content

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1. FRI-110-2-SSH(S)-01
Functional Metathesis in the Oral Practice of the French and Bulgarian Languages
<i>Kirilova Veska</i> | 20 |
| 2. FRI-110-2-SSH(S)-02
The System of Personal Pronouns in the Romani Dialect in and around Kârdzhali
<i>Ivan G. Iliev, Inan Ârmak</i> | 26 |
| 3. FRI-110-2-SSH(S)-03
Activeness and Aspects of Implementation of the Literary-political Mythology of "Golden Dobrudzha"
<i>Rumyana Lebedova</i> | 31 |
| 4. FRI-110-2-SSH(S)-04
Touches on Satirical Work of Stoyan Mihaylovski
<i>Elitsa Raynova</i> | 36 |
| 5. FRI-110-2-SSH(S)-05
On the origin of several personal pronouns in Bulgarian language - from a balkan point of view
<i>Ivan G. Iliev</i> | 43 |
| 6. FRI-110-2-SSH(S)-06
The transformations of the Pedagogical School in Silistra 1890 – 1913 /1941 – 1944/ 1945 – 1962
<i>Natalia Mincheva</i> | 48 |
| 7. FRI-110-2-SSH(S)-07
Rationality in Politics is a Mirage
<i>Stanislav Todorov</i> | 54 |
| 8. FRI-110-2-SSH(S)-08
Party In The Balkans
<i>Alina Costea</i> | 59 |

9. FRI-110-2-SSH(S)-09	66
“September” by Geo Milev – An Aspect of Implementation of The Biblical Code	
<i>Vladislav Dimitrov</i>	
10. FRI-110-2-SSH(S)-10	72
Features of the Subordinate Circumstantial Sentences for a Discount in the Story “Unhappy Family” bu Vasil Drumev	
<i>Donka Ilieva</i>	
11. FRI-110-2-SSH(S)-11	78
On the Cult of Light and Its Influence on the Christian Religion	
<i>Ivelin Iliev</i>	
12. FRI-110-2-SSH(S)-12	83
Clergy and literature in the Middle Ages	
<i>Maria Tomova</i>	
13. FRI-110-2-SSH(S)-13	88
For Rhythmically Organized Toposes in the Nameless Vita of John of Rila	
<i>Todorka Georgieva</i>	
14. FRI-110-2-SSH(S)-14	94
Methodological Aspects of Acquiring Practical Skills in Evelopment and Management of Social Project	
<i>Daniela Yordanova</i>	

**PEDAGOGY, PSYCHOLOGY,
AND TEACHING METHODOLOGY**

Content

1. FRI-227-2-PPTM(S)-01	100
Distance Learning in Physical Education and Sports	
<i>Antoaneta Momchilova</i>	
2. FRI-227-2-PPTM(S)-02	105
Problems of Ecological Education of Students of The Dagestan Basic School in The Context of The Implementation of New Standards	
<i>Nedyurmagomedov Georgy Gadzhimirzoevich and Magomedova Manadi Akhmednabievna</i>	
3. FRI-227-2-PPTM(S)-03	111
The Literary Education and E-Learning	
<i>(Lina) Galina Lecheva</i>	
4. FRI-227-2-PPTM(S)-04	117
The Leadership Status of The Guide in the tour Group	
<i>Zahariy Dechev</i>	
5. FRI-227-2-PPTM(S)-05	123

Competence Approach in Foreign Language Teaching Within Education 4.0		
<i>Diana Zhelezova-Mindizova</i>		
6.	FRI-227-2-PPTM(S)-06 Language – Culture Relation and Intercultural Competence	128
<i>Diana Bebenova-Nikolova</i>		
7.	FRI-227-2-PPTM(S)-07 Creation of Electronic Tests for Checking Competencies in Distance Learning in Information Technologies	133
<i>Evgenia Goranova</i>		
8.	FRI-227-2-PPTM(S)-08 Health and Health Education in School	140
<i>Antoaneta Momchilova</i>		
9.	FRI-227-2-PPTM(S)-09 The Flipped Classroom - Benefits and Challenges	144
<i>Milena Tsaneva</i>		
10.	FRI-227-2-PPTM(S)-10 Psychological Accents for The Guide's Leadership in the Tourist Guide	147
<i>Zahariy Dechev</i>		
11.	FRI-227-2-PPTM(S)-11 What Difficulties are There in Teacher's Work When Using Ultimedia in the Process of Teaching Students	153
<i>Vladislav Dimitrov</i>		
12.	FRI-227-2-PPTM(S)-12 Let's Ask the Text - a Possible Strategy for Competence Development	159
<i>Vanya Ignatova</i>		

TECHNICAL SCIENCES

Content

1	FRI-116-2-TS(S)-01 Investigation the Energy Efficiency of Industrial Melting Lectric Furnaces for Ferrous Metals	165
<i>Konstantin Koev, Svetlozar Grigorov</i>		
2	FRI-116-2-TS(S)-02 Investigation the Energy Efficiency of Industrial Melting Electric Furnaces for Non-Ferrous Metals	170
<i>Svetlozar Grigorov, Konstantin Koev</i>		
3	FRI-116-2-TS(S)-03 Influence of the stroke of the solenoid valve on the hydraulic characteristics of electromagnetic injectors Common Rail	174
<i>Valentin Manev, Milen Sapundzhiev</i>		

4 **FRI-116-2-TS(S)-04**

179

EU Strategy to Reduce Co2 Emission from Road Transport and Approaches to Its Implementation by Member States and Vehicles Manufactures

Milen Sapundzhiev, Valentin Manev