

PERSONAL INFORMATION

DUNGAN LUISA IZABEL



MMUT Department, Faculty of Mechanics, Polytechnic University Timisoara, Bv. M. Viteazu, nr. 1, 300222, Timisoara, Timiș County, Romania



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Sex F | Birth date 12.03.1968

| Nationality Romanian

PROFESSIONAL EXPERIENCE

September 2020 - present

Associate professor

Polytechnic University Timisoara, Faculty of Mechanics, Timisoara, Bv. M. Viteazu, nr. 1, 300222

- Education: university courses Commercial exploitation, Transport infrastructure, Technology of railway station activity, Operation of modern railway networks, etc. - bachelor and master studies
- Research & Development: in the field of mechanical engineering, transport and environmental protection (air quality, pollutant emissions, renewable energies, pollution reduction technologies), in the field of education. Director or member of research teams in projects with national, European or private funding (industry)
- Management: member in UPT's Senate, Mechanical Faculty Council , President of the quality commission in the Mechanical Faculty, member in the executive council of UPT's [InoHub](https://inohub.upt.ro/structura/executiv/) (<https://inohub.upt.ro/structura/executiv/>), Director of continuous professional formation programs in the entrepreneurial domain, Director of the Bachelor program: Railway transport vehicles

Type or sector of activity Didactic activity and scientific research

February 2009 - September 2020

Lecturer

Polytechnic University of Timisoara, Faculty of Mechanics, Timisoara, Bvd. M. Viteazu, nr. 1, 300222

- Teaching courses, conducting research programs, coordinating teaching activities, member of license exam committees

Type or sector of activity Didactic activity and scientific research

October 2009 – June 2010

Teaching expert in the ASFOC program

Polytechnic University of Timisoara, Faculty of Mechanics, Timisoara, Bvd M. Viteazu, nr. 1, 300222

- Course teaching, coordination of teaching activities

Type or sector of activity Teaching activity

October 2000 – February 2009

Assistant Professor (substitute or assistant for an indefinite period)

Polytechnic University of Timisoara, Faculty of Mechanics, Timisoara, Bvd. M. Viteazu, nr. 1, 300222

- Teaching courses, conducting research programs, coordinating laboratory works, student practice, respectively experimental campaigns

Type or sector of activity Didactic activity and scientific research

October 1999 – October 2000

Full-time PhD student

Polytechnic University of Timisoara, Faculty of Mechanics, Timisoara, Bvd. M. Viteazu, nr. 1, 300222

- Carrying out research programs, coordinating laboratory works, experimental campaigns

Type or sector of activity Didactic activity and scientific research

EDUCATION AND TRAINING

February 2015 **Competence assessor, Certificate Series N, nr. 00084349**

Institute for Social Policies Association, Bucharest, sector 3

Development of assessment tools/Advising candidates for the assessment process/Organising the assessment process/Conducting the assessment/Deciding on candidate's competencies

February 2015 **TRAINER/Graduation Certificate Series I, nr. 00319961**

Foundation for Culture and Education "Ioan Slavici", Timișoara

Preparation of the training program/internship; Preparation of practical training; Carrying out training activities; Evaluation of training participants; Evaluation of the training program/internship

September 2012- June 2014 **Economist/ Diploma Series LA nr. 0044381**

PETROLEUM-GAS UNIVERSITY OF PLOIESTI, FACULTY OF ECONOMIC SCIENCES
Accounting and management informatics

September 2011-June 2013 **Master in Engineering of Renewable Energy Systems, Series B nr. 023061**

University POLITEHNICA of Timisoara, Faculty of Mechanics

General ecology, Optimization of thermal processes, heat transfer, Competencies specific to the postgraduate specialization in a two-year master program, with the specialization Engineering of renewable energy resources

March 2011 **Certificate of completion of training module in university management "Management of tertiary activities"**

Executive Unit for Financing Higher Education, Research, Development and Innovation, MECTS, Romania
University Management

March 2011 **Certificate of graduation in university management training module "Services and support for students"**

Executive Unit for Financing Higher Education, Research, Development and Innovation, MECTS, Romania
University management in working with students

April 2011 **Project Manager/Graduation Certificate Series G nr. 00091292**

DIDACTIKOS Association, Timisoara

- Ensuring compliance with the provisions of the project contract; Leading the implementation of the project; Identification and analysis of risks and specification of risk control actions; Orientation of the work of teams and individuals to achieve organizational objectives; Ensuring operational resources for the project

October 1999-February 2008 **Doctor engineer, Diploma Series F nr. 0002222**

University POLITEHNICA of Timisoara, Faculty of Mechanics

Contributions to the study and research of flexicoil spring behavior from the CFR 060-EA 5100 kW electric locomotive

October 1997 – July 1999 **Bachelor's degree, Diploma Series R Nr.0079817 (engineer specializing in Railway rolling stock)**

Traian Vuia Polytechnic Institute of Timisoara, Romania

- Dynamics of railway vehicles, Operation of railway vehicles, Computation and construction of load-bearing structures

October 1987 – June 1992

Engineering diploma, Series J nr. 29101 (engineer specializing in Automatic Systems and Data Processing Equipment)

Traian Vuia Polytechnic Institute Timisoara, Romania

Industrial robots, Peripheral computing equipment, Computer integrated manufacturing systems, Artificial intelligence elements, Numerical calculation and CAD

PERSONAL SKILLS

Mother tongue(s) Romanian

OTHER KNOWN FOREIGN LANGUAGES

Specify foreign language
ENGLISH

UNDERSTANDING		SPEECH		WRITING
Obedience	Read	Join the conversation	Oral speech	
B2	B2	B2	B2	B2
Independent user				

Levels: A1/A2: Basic User - B1/B2: Independent User - C1/C2: Experience User

Communication skills

- communication capacity acquired during educational training, in teaching students and collaborating with colleagues in solving complex research & development programs.
- ability to adapt and multicultural communication acquired by participating in international projects, participation in conferences, as well as by participating in various summer schools.

Organizational/managerial skills

- leadership: coordination (5 as manager, over 20 as member of the management team) research projects with European or national funding, as well as numerous research contracts with industrial beneficiaries, with the coordination of teams of 3 – 10 experts, including from abroad (last project coordinated, significant: RORS394, www.mytes.upt.ro),
- organizational spirit with experience in logistics, in organizing student management, license exams, etc., scientific events (conferences, symposiums, workshops, etc.)

Skills acquired at work

- technical skills specific to professional training in the field of mechanical engineering, specialization Peripheral computing equipment, robots and railway rolling stock
- technical skills specific to the field of transport, being tenured in the disciplines: Operation of railway vehicles, Working technologies in railway stations, Locomotives and railcars with thermal engines, Traffic command and control installations, Transport infrastructures.
- skills specific to the economic field, being financially responsible in over 10 projects with European or national and international funding, respectively responsible of the discipline Economic Analysis in Transport
- specific organizational skills, being an expert/researcher in over 20 projects with European, national, or private funding (industry)
- technical skills specific to the field of Environmental Engineering (expert in environmental projects), respectively in the field of renewable energy resources (expert in research projects/contracts)
- transversal skills, being responsible on behalf of the Polytechnic University Timișoara for the ENTREPRENEURIAL SKILLS program, the DESIGNER WEB PAGES program and the postgraduate program INNOVATIVE ENTREPRENEURSHIP and trainer for the PROJECT MANAGER program, the TRAINER of TRAINERS program and the ENTREPRENEURIAL SKILLS program.

Digital competence

SELF ASSESSMENT				
Information processing	Communication	Content creation	Security	Problem solving
Independent user	Experienced user	Independent user	Independent user	Independent user

Levels: Basic User - Independent User - Experienced User

- good command of Microsoft Office™ tools (Word™, Excel™, Math CAD and PowerPoint™);
- advanced knowledge in Internet and knowledge in various computing programs.

Other competences

- ability to organize events: conferences (French-Romanian Colloquium Energy-Environment Economy and Thermodynamics COFRET 2006, June 15-17, 2006; Workshop RADO 2009: Improving the project infrastructure, perspectives of the current national environment network, <http://spectroscopy.phys.uaic.ro/Meetings-and-Field-Campaigns.html>; The 35th Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), "Science and Art in the Informatics' Era", July 6 - 11, 2011, <https://www.americanromanianacademy.org/congresses;>, International Workshop „Global and Regional Environmental Protection” organized by Polytechnic University of and B.EN.A., 26-28 November 2010, Timisoara/Romania, <http://benatim2010.mec.upt.ro/>, THE HUMBOLDT-KOLLEG: KNOWLEDGE, CULTURE, SCIENCE THE FUNDAMENT OF QUALITY OF LIFE IN SOCIETY, 23-28.11.2010, <http://avhkolleg2010tim.mec.upt.ro/index.html>; OTEM 2013: 6th Workshop on Optoelectronic Techniques for Environmental Monitoring, 11-13 June 2013, <http://otem.inoe.ro/2013/committees/committees.html>, EAEC-MVT2022) student scientific sessions (SC_IT from 2010-present), various events (POLI KIDS 2022, 2023, MEC DAYS 2022, 2023, Christmas Market 2023, Night of Young Researchers 2023),
- reviewer (Journal of Agricultural Science and Technology A, Journal of Education, Society and Behavioural Science)
- editor (International Journal of Transportation Engineering and Technology)
- member of doctoral committees (at UPB in 2022 for Mr. Stere and Mr. Șerban)
- member of competition committees (assistant, lecturer)
- member of evaluation committees (bachelor, master, continuing education)
- team spirit acquired under scientific research contracts,
- ability to adapt to various social and cultural environments, obtained by collaborating with institutions and companies in the country and abroad.

Driver's license

B

FURTHER INFORMATION

Publications	<u>ISI Web of Knowledge indexed works (selection)</u>
	<p>1. Lavinia Maria Mihali, Sabina Potra, DUNGAN Luisa Izabel*, Romeo Negrea and Adrian Cioabla, Key Factors of AS Performance in Emerging Central and Eastern European Countries: Evidence from Romania, Sustainability 2022, 14, 8328, IF 3,889, Q2, WOS: https://doi.org/10.3390/su14148328</p> <p>2. DUNGAN Luisa Izabel, Cioabla, A.E., Pode, V., Small scale determinations for biogas production using anaerobic fermentation - 2L batch scenarios, Revista de Chimie, vol 71, nr.1, 2020, IF 1,755, Published 2020, WOS: https://doi.org/10.37358/RC.20.1.7836</p> <p>3. Stepan, D; Ionel, I; DUNGAN Luisa Izabel; Balogh, R, INTERACTIONS BETWEEN INFRASTRUCTURE, VEHICLES AND ENVIRONMENTAL FOR RAIL TRAFFIC, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY vol.13, 2012, pag. 104-112</p> <p>4. Dungan, M. A; DUNGAN Luisa Izabel; IMPROVEMENT OF THE COMFORT OF THE PASSENGERS IN AN UIC PASSENGER CAR TYPE B-11 USING BASALTIC FIBRES CLOTH LIKE INSULATION MATERIAL ON CEILING, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY vol.13, 2012, pag. 2291-2301</p> <p>5. Dungan M.A; Tucu D; DUNGAN Luisa Izabel, NANOPARTICLES EMISSIONS FROM RAILWAY TRAFFIC. ANALYSIS IN BANAT REGION, NANOCON 2012, 4TH INTERNATIONAL CONFERENCE, 2012, pag 659-664</p> <p>6. DUNGAN Luisa Izabel; Ionel, Ioana; Dungan, Mircea; Iacobescu, Florin, Research concerning thermal stress of bandages on block braking in case of braking stop, ADVANCES IN BIOLOGY, BIOENGINEERING AND ENVIRONMENT, Proceedings on Cellular and Molecular Biology Biophysics and Bioengineering, 2010, pag.168-+</p> <p>7. Lavinia Maria Mihali, Sabina Potra, DUNGAN Luisa Izabel, Romeo Negrea and Adrian Cioabla, Key Factors of AS Performance in Emerging Central and Eastern European Countries: Evidence from Romania, Sustainability 2022, 14, 8328, IF 3,889, Q2, WOS: https://doi.org/10.3390/su14148328</p> <p>8. DUNGAN Luisa Izabel, Cioabla, A.E., Pode, V., Small scale determinations for biogas production using anaerobic fermentation - 2L batch scenarios, Revista de Chimie, vol 71, nr.1, 2020, IF 1,755, Published 2020, WOS: https://doi.org/10.37358/RC.20.1.7836</p> <p>9. Stepan, D; Ionel, I; DUNGAN Luisa Izabel; Balogh, R, INTERACTIONS BETWEEN INFRASTRUCTURE, VEHICLES AND ENVIRONMENTAL FOR RAIL TRAFFIC, JOURNAL OF ENVIRONMENTAL PROTECTION</p>

	<p>AND ECOLOGY vol.13, 2012, pag. 104-112</p> <p>10. Dungan, M. A; DUNGAN Luisa Izabel; IMPROVEMENT OF THE COMFORT OF THE PASSENGERS IN AN UIC PASSENGER CAR TYPE B-11 USING BASALTIC FIBRES CLOTH LIKE INSULATION MATERIAL ON CEILING, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY vol.13, 2012, pag. 2291-2301</p> <p>11. Dungan M.A; Tucu D; DUNGAN Luisa Izabel, NANOPARTICLES EMISSIONS FROM RAILWAY TRAFFIC. ANALYSIS IN BANAT REGION, NANOCON 2012, 4TH INTERNATIONAL CONFERENCE, 2012, pag 659-664</p> <p>12. DUNGAN Luisa Izabel; Ionel, Ioana; Dungan, Mircea; Iacobescu, Florin, Research concerning thermal stress of bandages on block braking in case of braking stop, ADVANCES IN BIOLOGY, BIOENGINEERING AND ENVIRONMENT, Proceedings on Cellular and Molecular Biology Biophysics and Bioengineering, 2010, pag.168-+</p> <p><u>Printed books</u></p> <p>1. DUNGAN Luisa Izabel, Contributions to the study and investigation of flexicolle arc behavior at the electric locomotive CFR 060-EA de 5100 kW, Publisher Editura POLITEHNICA, Timișoara, 2008, ISSN: 184-4937, ISBN: 978-973-625-599-1</p> <p>2. Mihaiela Herman, DUNGAN Luisa Izabel, Systems and means of transport, Publisher Editura MIRTON, Timișoara, 2003, ISBN: 973-661-114-0</p> <p>3. DUNGAN Luisa Izabel, Mihaiela Herman, Balogh Ramon, Stepan Dan, Transport Systems. Means of Transport. Transport and Handling Technologies, Publisher Editura MIRTON, Timișoara, 2008, ISBN 978-973-52-0499-0</p> <p>4. DUNGAN Luisa Izabel, Analysis of technological processes in a triage station, Publisher Editura POLITEHNICA, Timișoara, 2007, ISBN: 978-973-625-515-1</p> <p>5. DUNGAN Luisa Izabel, E. Șolea, Commercial merchandise exploitation, Publisher Editura MIRTON, 2003, ISBN 973-661-127-2</p> <p>6. DUNGAN Luisa Izabel, E. Șolea, M. Dungan, Commercial Traveler Exploitation, Publisher Editura MIRTON, 2005, ISBN 973-661-611-8</p> <p>7. DUNGAN Luisa Izabel, Gh. Sfăra, Al. Culda, Traffic control and control systems for railways, Publisher MIRTON 2005 ISBN 973-661-486-7</p> <p>8. DUNGAN Luisa Izabel, Commercial Traveller Exploitation, Publisher Editura Eurobit, 2020, ISBN</p> <p>9. Lavinia Maria Cernescu, Aurora Maria Murgea, DUNGAN Luisa Izabel, Titus Slavici, Doina Darvasi, Christina Moldoveanu-Barbu, PROJECT MANAGEMENT BASED ON EUROPEAN FUNDING: FROM THEORY TO PRACTICE, Dél-Alföld Fenntartható Környezetéért Alapítvány, Szeged (Hungary), 2017, 188, ISBN 978-615-00-0414-3, 188 pag.</p> <p>10. DUNGAN Luisa Izabel, Clara-Beatrice Vilceanu, Transport infrastructure, EUROBIT, Timișoara 2020, ISBN 978-973-622-1, 120 pag</p> <p>11. DUNGAN Luisa Izabel, Clara-Beatrice Vilceanu, 3D Scanning and printing, EUROBIT, Timișoara 2020, ISBN 978-973-132-627-6, 63 pag</p> <p>12. DUNGAN Luisa Izabel, Lavinia Maria Mihali, Ciprian Angheluță, Counseling Guide, EUROBIT, Timișoara 2020, ISBN 978-973-132-638-2, 74 pag</p>
<p>Presentations</p>	<p>Lecture: Nanoparticles emissions from railway traffic. Analysis in Banat region, at UNIVERSITY OF BELGRADE, TECHNICAL FACULTY IN BOR within ERASMUS program</p>
<p>Projects</p>	<p><u>Grants obtained through competition (manager)</u></p> <ul style="list-style-type: none"> ▪ RORS 394, Through knowledge to business and smart development of Banat -KNOW TO DEVELOP, valoarea de 97900 Euro, finanțat din fonduri europene prin programul IPA România-Serbia (2019-2020), https://mytes.upt.ro/en/ ▪ POCU/90/6.13/6.14/107330/2018, Build your future through internships! – CONPrACT, grant value 839319.53lei, financed from European funds (2018-2020), http://conpractis.ro/ ▪ ROSE105/2018, Learning Center in Engineering Sciences – CISI, grant amount 904697 lei, financed by the Ministry of Education, with funds from the World Bank (2018-2021) ▪ POSDRU/189/2.1/G/156607, Partnership developed for COUNSELING and PRACTIce of Students in order to increase their employability – CONPRACTIS, Grant amount 532083 lei, financed from European funds (2015)

Conferences	<ul style="list-style-type: none"> Scientific papers presented at conferences in Greece, Serbia, France, Czech Republic, Hungary, etc. (XI International Conference Industrial Engineering and Environmental Protection 2021 October 07-08, 2021, Zrenjanin, Serbia, 13TH INTERNATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES, EDULEARN21)
Affiliations	<p>Member of various associations: Balkan Environmental Association, B.E.N. A http://www.gen.teithe.gr/~bena/benahome.html, General Association of Engineers in Romania, http://www.agir.ro/en/index.php , Association of Railway Engineers in Romania, http://www.aifr.ro, National Association of Women with University Diplomas in Romania, ANFUR, Romanian Society of Automotive Engineers, SIAR, https://siar.ro/ UNIVERSITY ASSOCIATION OF MANUFACTURING ENGINEERING, www.auif.utcluj.ro, Romanian Welding Association</p>
References	<p>Anca NEMUC, Senior Researcher (CS III), National Institute of Research and Development for Optoelectronics, INOE 2000, Magurele, Ifov county, Atomistilor Str., No. 409, anca@inoe.inoe.ro Bogdana VUJIC, University of Novi Sad, Department of Environmental Engineering and Safety at work, Dr Zorana Đinđića 1, Novi Sad 21000, Serbia Dr.eng. Simina FULGA, Senior Researcher, Fraunhofer Institute for Manufacturing Engineering and Automation, Nobelstr. 12, 70569 Stuttgart, +49 711 970-1856, simina.fulga@ipa.fraunhofer.de</p>
Citations	Over 70 citations in ISI and BDI journals
Courses	<p>Entrepreneurial skills (accredited course, RNFFPA authorization no. 35/436/21.09.2020), Web page designer (accredited course, RNFFPA authorization no. 35/137/31.03.2020), Innovative entrepreneurship (postgraduate course registered with no. 283 at ANC)</p>
ACADEMIC AND ADMINISTRATIVE FUNCTIONS	<p>UPT Senate Member and Secretary General of the UPT Senate, Member of the Faculty of Mechanics Council, President of the Quality Commission of the Faculty of Mechanics, Member of the Executive Board of Inohub UPT (https://inohub.upt.ro/structura/executiv/), Member of the team for the realization of the Accreditation Reports for bachelor and master specializations (ITT, SFM) Director of continuing professional training programs - postgraduate in entrepreneurship, Director of the bachelor program: Railway transport vehicles Member of the boards of the fields: Transport Engineering and Mechanical Engineering Member of ITT and VTF specializations board</p>

Timisoara, 05.03.2026

Luisa Izabel DUNGAN