

# Curriculum Vitae



## Personal Information

Name  
Citizenship  
Institution

**Elena HELEREA**

Romanian

Department of Electrical Engineering and Applied Physics, faculty of Electrical Engineering and Computer Science, Transilvania University of Braşov

Address

Politehnicii Str., nr. 1, Braşov, cod 500039, România

Location

Building N, Room N I 2

E-mail

helerea@unitbv.ro

## Professional experience

Period  
Name and address of employer  
Position  
Actual  
Main activities and responsibilities

1976-2023

Transilvania University of Braşov, România, [www.unitbv.ro](http://www.unitbv.ro)  
Faculty of Electrical Engineering and Computer Science, [www.unitbv.ro/fiesc/](http://www.unitbv.ro/fiesc/)  
University professor, PhD Eng. (beginning with 1999 until 2017)

Professor emeritus, doctoral supervisor

Research in Electrical Engineering (beginning with 1976)

Education in Electrical Materials, Electrical Machines, Power Quality, History of Electrical Engineering

- Responsible for Research Center Advanced Electrical Systems (2010-2015)
- Coordinator of Electromagnetic Compatibility Laboratory (2010-2016)
- Doctoral supervisor in Electrical Engineering (from 2004)
- Coordinator of master program Advanced Electrical Systems (2004-2015)
- Director of Library of Transilvania University of Braşov (2008-2012)
- Vice-Rector with didactical activities (2004-2008)
- Chief adjunct of Electrotechnics Dept. – (1996-1999)
- Director al Technical University College (1992-1995)

Period  
Name and address of employer  
Activities and Responsibility

1975-1976

Chemical Factory of Făgăraş

- Research and design of supply electrical systems
- Design of measurement and control systems for chemical industrial processes

Period  
Name and address of employer  
Activities and Responsibility

1970-1975

Chemical High School of Făgăraş

- Didactical subjects: Electrical measurements, Automations, Physics, Electrotechnics
- Development of Measurement and Automation laboratory

## Education

Period  
Title/Qualifications  
Nume of training unit

2001-2007

Post-university course “Interactive methods in teaching-learning process” (2006-2007)

Post-university course “Strategic management for urban and industrial environment” (2000-2001)

Transilvania University of Braşov

Period  
Title/Qualifications  
Nume of training unit

1998-1999

Post-university course “Learning about Distance Learning”

Watt – Herriot University, Scotland

Period  
Title/Qualifications  
Doctoral thesis subject

1984-1987

PHD in Electrical Engineering

*Contributions to improving the quality of plastic electrical insulation used in the electrical equipment of autovehicles and aircraft*

Nume of training unit

Politehnica University of Bucharest

Period  
Title/Qualifications  
Nume of training unit

1965-1970

Engineer in Electrical Engineering

Transilvania University of Braşov (Polytechnical Institute)

## Didactical activities

- Courses taught: Materials for electrical engineering, Passive components, Quality of electric energy, Electromagnetic compatibility, Monitoring electric energy quality, Evolution of science and technology, Energy system stability
- Cooperation with EU institutions as project coordinator:  
(1994-1996) Tempus DÉCOR project; (1996-1999) Tempus CONEET project; (1999–2001)

Tempus: EuRoCEP project; (2005-2008) Leonardo COMPLETE pilot project; (2005-2006) Leonardo EURO-Land project; (2010-2012) Tempus IStEMag project; (2011-2012) Europe for citizens OPPENESS project; (2013-2014) Grundvig WISE project

## Research activity

- National research grants
  - Contract CEEEX, Modul I, Nr. 2-CEX06-8-85/19.09.2006, CEREX - Models and indicators for evaluating the quality of scientific research in universities in the context of the knowledge-based society, 2006-2008, 1496290 lei, Director.
  - Contract CEEEX, Modul I, P-CD, Nr. 215/2006 – MAGME - High performance magnetic materials used in the construction of electric machines, 2006-2008, 1494775 lei, Director consortium.
  - CNCSIS–Consortium 6GR Nr.188/05.06.2006, Modeling and simulations regarding the dynamic behavior of magnetic materials with controlled properties, 2006-2008, 791426 lei, Director consortium.
- Research projects
  - International projects – 19, from which at 9 as coordinator
  - National projects – 21, from which at 12 as coordinator
  - Other contracts with third parties – 29, from which at 9 as coordinator.
- Publications
  - 6 courses and 4 laboratory books
  - 14 monographs, 8 as sole authors, 1 in international publishing house
  - 15 proceedings of conferences as coordinator and editor
  - over 300 scientific articles published in national and international conferences, of which: 46 ISI indexed articles, 53 BDI indexed articles (SCOPUS), 25 IEEE indexed articles
  - over 300 citations in ISI publications
  - over 550 citations in BDI indexed publications (ISI exception)
  - Index H: Web of Science - 8; Scopus – 10; Google - 13
- PhD theses coordination – 13 completed theses
- Member of the Commissions for examination and evaluation of doctoral theses (25 examinations), at universities: Bucharest (16), Craiova (1), Cluj-Napoca (2), Iași (2), Brașov (5).

## Additional Information

Professional Association

AGIR – Romanian Association of Engineers

ACER – Romanian Association of Electromagnetic Compatibility

CRIFST – The Romanian Committee for the History and Philosophy of Science and Technology of the Romanian Academy

IEEE Chapters: Dielectrics, Magnetics, CEM, Measurements, Education (No. 41385433)

ICOHTEC – International Committee for History of Technology

Editorial boards and reviewer

- Pollack Periodica, An International Journal for Engineering and Information Sciences, Akadémia Kiadó, Hungary, ISSN 1788-1994, [http://akkrt.hu/55/journals/products/engineering\\_sciences/pollack\\_periodica\\_eng](http://akkrt.hu/55/journals/products/engineering_sciences/pollack_periodica_eng)
- Bulletin of the Transilvania University of Brasov - Series I - Engineering Sciences – [Vol. 1 (50) – 2008] – [Vol. 7(56) NO.1 – 2014], ISSN 2065-2135, <http://but.unitbv.ro/Bulletin/Series%20I/Series%20I.html>
- Noema, Romanian Academy
- NOESIS, Romanian Academy
- Reviewer at 10 national and international journals

Evaluation committees

Evaluator for ARACIS

Evaluator for CNCSIS

Recognition and other responsibilities

Honorary Professor of the University of Pecs, Hungary (from 2011); Member in Committee of IEEE-Romanian Section, President of Brasov Branch of CRIFST of Romanian Academy; Member in Executive Committee of ICOHTEC.

Brașov, January 2024