

PERSONAL INFORMATION

Petre Lucian Seiciu



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Sex male | Date of birth | Nationality Romanian

POSITION

Habilitated Professor

WORK EXPERIENCE

11.20.2016 - present

Habilitated Professor

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Managing young PhD students into their day-to-day activities so as to help them obtain the PhD title
- Teaching courses at the Faculty of Aerospace Engineering, Faculty of Mechanical Engineering and Mechatronics, Faculty of Engineering and Management of Technological Systems.
- **Courses:** Machine Elements, Machine Elements and Mechanisms, Mechanisms and Mechanical Transmissions, Non-conventional Transmissions, Industrial Products Life Cycle Assessment, Operational Research Methods in Industrial Management.

▪ **Monography single Author:**
Design of the Bio-Medical Systems Used in Medical Rehabilitation (in rom. *Proiectarea sistemelor biomecanice pentru reabilitare medicală*), Ed. POLITEHNICA Press, Bucuresti, ISBN 978-606-515-929-7, 250p., 2020.

- **Research Areas:** machine elements, tribology, mechatronic systems for medical recovery of the locomotory challenged persons.

Business or sector Higher education.

01.10.2014 – 11.20.2016

Professor

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Teaching courses at the Faculty of Aerospace Engineering, Faculty of Mechanical Engineering and Mechatronics, Faculty of Engineering and Management of Technological Systems.

- **Courses:** Machine Elements, Machine Elements and Mechanisms, Mechanisms and Mechanical Transmissions, Non-conventional Transmissions, Industrial Products Life Cycle Assessment, Engineering Products Project Management.

▪ **Monography single Author:**
Lubrication Elements of Mechanical Transmissions with Application in Mechatronic Systems for Medical Rehabilitation, Ed. POLITEHNICA Press, Bucuresti, ISBN 978-606-515-691-3, 152 p., (2016).

- **Research Areas:** machine elements, tribology, mechatronic systems for medical recovery of the locomotory challenged persons.

Business or sector Higher education.

10.01.2003 – 09.30.2014

Associate Professor

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Teaching courses at the Faculty of Aerospace Engineering, Faculty of Mechanical Engineering and Mechatronics, Faculty of Engineering and Management of Technological Systems.

- **Courses:** Machine Elements, Machine Elements and Mechanisms, Mechanisms and Mechanical Transmissions, Non-conventional Transmissions, Industrial Products Life Cycle Assessment,

Engineering Products Project Management.

▪ **Monography single Author:**

Mechanical Systems Components in Aviation. (in rom.: *Componentele sistemelor mecanice din aviație*), Ed. PRINTECH, Bucharest, ISBN (10) 973-718-604-4, p. 330, 2006.

▪ **Books Co-author:**

1. *Non-Conventional Transmissions* (in rom.: *Transmisii neconvenționale*), Ed PRINTECH, Bucharest, ISBN 978-973-740-6, p. 238, 2007;
2. *Commercial Transactions or Economic Engineers* (in rom.: *Tranzacții comerciale pentru ingineri economiști*), PRINTECH Bucharest, Bucharest, ISBN 978-606-521-224-4, p. 210, 2008;
3. *Engineering Project Management* (in rom.: *Managementul proiectelor ingineresti*), Ed. POLITEHNICA Press, Bucharest, ISBN 978-606-515-070-6, p. 452, 2009;
4. *Engineering Products Life Cycle Analysis and Assessment* (in rom.: *Analiza și evaluarea ciclului de viață al produselor ingineresti*), PRINTECH Bucharest, ISBN 978-606-521-612-9, p. 237, 2010.

▪ **Test Books and Handbooks:**

1. *Mechanical Systems Components in Aviation. Tests* (in rom.: *Componentele sistemelor mecanice din aviație – Teste*), Ed. PRINTECH, Bucharest, ISBN (10) 973-718-606-8, ISBN (13) 978-973-718-606-4, p. 88, 2006;
2. *Commercial Transactions or Economic Engineers. Applications and Tests* (in rom.: *Tranzacții comerciale pentru ingineri economiști. Aplicații și teste*), ISBN 978-606-521-454-5, Ed. PRINTECH, Bucharest, p. 183, 2008;
3. *Laboratory Handbook. Machine Elements and Tribology* (in. rom.: *Caiet de laborator. Organe de mașini și tribologie*), Ed. POLITEHNICA Press, Bucharest, ISBN 978-606-515-265-6, p. 102, 2011.

▪ **Research Areas:** machine elements, tribology, mechatronic systems for medical recovery of the locomotory challenged persons.

Business or sector Higher education

10.01.1999 – 09.30.2003

Lecturer

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

▪ Teaching courses at the Faculty of Aerospace Engineering, Faculty of Mechanical Engineering and Mechatronics.

▪ **Courses:** Machine Elements, Machine Elements and Mechanisms, Mechanisms and Mechanical Transmissions, Non-conventional Transmissions, Engineering Products Project Management.

▪ **Books Co-author:**

1. *Machine Elements Complements* (in Romanian : *Complemente de organe de mașini*), Ed. Bren, Bucharest, ISBN 973-8143-62-4, p. 230, 2001;
2. *Plane Mechanisms. Theory and Applications* (in rom.: *Mecanisme plane. Baze teoretice și aplicații*), Ed. Bren, Bucharest, ISBN 973-648-074-7, p. 100, 2002;
3. *Machine Elements. Mechanical Transmissions* (in rom.: *Organe de mașini. Transmisii mecanice*), Ed. Bren, ISBN 973-648-039-9, Bucharest, p. 202, 2002;
4. *Machine Elements. Elements of Lubrification and Tribology* (in rom.: *Organe de mașini. Elemente de tribologie și lubrificație*), Ed. Bren, Bucharest, ISBN 973-648-100-X, p. 178, 2003.

▪ **Test and Workbook Coordinator and Main Author:**

1. *Basics of Design in Mechanical Engineering* (in rom. *Bazele proiectării în ingineria mecanică*), Ed. Bren, Bucharest, ISBN 973-9493-92-0, p. 97, 2000;
2. *Design Principles in Machine Construction* (in rom.: *Principiile proiectării în construcția de mașini*), Ed. Bren, Bucharest, ISBN 973-99-8, p. 204, 2001;
3. *Mechanical Transmissions. Tests* (in rom.: *Transmisii mecanice. Teste*), Ed. Bren, Bucharest, ISBN 973-8143-40-3, p. 100, 2001.

▪ **Research Areas:** machine elements, tribology.

Business or sector Higher education.

01.10.1986 - 09.30.1999

Assistant Professor

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Leading project and laboratory classes at the Faculty of Engineering and Management of Technological Systems, Faculty of Aerospace Engineering, Mechanical Engineering, Faculty of Transportations and Faculty of Power Engineering Faculty.

Business or sector Higher education.

01.01.1986 – 09.30.1986

Design Department Leader

University Politehnica of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Leading PROTOMUS Design Department, Faculty of Engineering and Management of Technological Systems. Team leader and researcher.

Business or sector Higher education.

02.01.1983 – 05.30.1985

Design Engineer

ICSIT Titan.

- Design, testing and homologation experiments of hydraulic equipment (actuators, filters, accumulators), hydraulic servo-systems (servo-valves, servo-actuators) for CNC and industrial robots.

Business or sector Design – research.

10.01.1982 – 01.31.1983

Division Engineer

SARO Târgoviște, Plant 4

- Tracking manufacturing technology.

Business or sector Industrial Manufacturing.

EDUCATION AND TRAINING

10.01.2003 – 06.30.2005

Master of Science International Projects Management

ISCED 6

National School of Political Studies and Administration, PR and Communication Faculty, Bucharest, www.snspsa.ro

- International projects management, European programs, international projects legislation and statutory compliance, planning and programming software, project team formation and overview, public relations and communication.

10.01.2000 – 06.30.2001

Master of Science Industrial Business Administration

ISCED 6

The Bucharest University of Economic Studies, Bucharest, www.ase.ro

- Industrial business management, Accounting, HR.

1989 – 1997

PhD Studies

ISCED 6

Politehnica University of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

PhD degree (1997) in Mechanical Engineering.

- Tribology / Mechanical Transmissions Lubrication.

1977 - 1982

Master of Science in Mechanical Engineering, Machine Tools Specialty

ISCED 6

Politehnica University of Bucharest, 313, Independenței Spl., Bucharest, www.upb.ro

- Mathematics, Computer Programming, Machine Elements, Machine Tools Design. Professional skills in mechanical design and scientific research activities.

PERSONAL SKILLS

Mother language Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2
German	B1	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skills gained through my experience as project manager.

Organisational / managerial skills

- Good experience in Project and Team Management.
- Leadership (currently director of several project teams, President of the Romanian Association of Mechanical Transmissions – ROAMET).
- Team spirit (since 2001 active member of several scientific projects teams).
- Very good experience in International events organizing:
 - General Manager of the Manager Committee Meeting of COST ACTION 16116, at UPB siege, March 18-19, 2019, with the participation of 90 invited researchers: 70 from EU countries, 8 from non-EU countries (Bosnia and Herzegovina, Iceland, Israel, Montenegro, North Macedonia, Norway, Serbia, Turkey) and 12 from Romania.
<http://www.mecanica.pub.ro/new/index.php/cost-action-ca16116/>
 - UPB delegate manager of the Yearly Meeting of the High Directorate – CSO COST April 10-11, 2019, Bucharest, organized at UPB siege, under the auspices of the Romanian Presidency of the EU Council in 2019.
 - Coordinator of several International Conferences: Balkantrib, Rotrib, ROAMET.
- Sense of organization (logistics experience).
- Strategic planning.
- Capability to simultaneously manage a wide range of events.
- Multidimensional solving problems ability.
- Mainly goal achievement oriented.

Job-related skills

- ROMANIAN STANDARDS ASSOCIATION Expert CT 61.
- RELANSIN Program expert and evaluator.
- Manager of SEVERAL national Grants (CEEX – M1 – C2, PNCDI II- PCCA, PN-III-P2-2.1-BG, PN-III-P2-2.1-CI, PN-III-P2-2.1-PTE) and international Grants (HORIZON 2020).
- Excellent knowledge in machine parts and mechanisms functionality.
- Applied skills within Machine Elements Laboratory highlighted by the coordination of the Machine Elements and Tribology Laboratory Handbook and by the realization of several Laboratory tutorials.
- Innovative oriented: 9 patents submitted.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

ECDL, AUTODESK

- Hardware configuring knowledge.
- Microsoft Office (Word, Excel, PowerPoint) proficiency.
- Project Management tools (Microsoft Project, Primavera Project Planner).
- Basic knowledge of engineering software (Mathcad, Mat Lab).

- Other skills
- Economic competences in: business administration, financial management and marketing
 - Music:
 1. Symphonic (Corelli, Geminiani, Mussorgsky, Tchaikovsky),
 2. Jazz (Gary Burton, Chick Corea, Weather Report)
 3. Classic folk (Pentangle),
 4. Progressive (Yes, Jethro Tull, Peter Gabriel).
 - Impressionist Painters.
 - History and Geography.

Driving licence B

- AWARDS
- 53 gold and silver medals obtained at International Invention Salons (Geneva, Warsaw, Katowice, Toronto, Romania)
 - Diplomas of excellence and merit from several international organizations:
 1. International Warsaw Invention Show, IWIS 2016
 2. EUROPE FRANCE INVENTEURS et Fédération Française Des Inventeurs, 2018.
 3. Special Prize "Lucian Blaga" University, 2018.
 4. Global Exhibitions, 2018, E.A.U.
 5. Award of Excellence, TISIAS, 12th International Warsaw Invention Show, IWIS 2018.
 6. Award of Excellence, INTARG, Katowice 2019
 7. Award of Excellence, TISIAS, Canada, 2019.
 8. SMARTI Lab., ECOLE MAROCAINE DE SCIENCE DE L'INGENIEUR, 2019.
 9. Certificate of Excellence, iCAN – TORONTO, CANADA, 2019.
 10. Special Prize, Association of Thai Innovation and Invention Promotion, THAILAND, 2019.
 11. PRO INVENT, Cluj-Napoca, 2020, 2023.
 12. INVENTICA 2020, Iasi, Romania
 13. TISIAS Special Award, Canada (three diplomas for three different inventions), 2020, 2021, 2022.
 14. Organizer's Choice Award (three for three inventions), iCAN 2020, 2021, 2022.
 15. WIIPA Special Award, 2020.
 16. Certificate of Appreciation, iCAN 2020.
 17. Special Award, 6th International Invention Innovation Competition, Toronto, Canada (two for two inventions), 2021.
 18. Association of Inventors of Vojvodina, TESLA Fest Novi Sad, Serbia, 2021.
 19. Certificate of Jury Participation, International Invention and Innovation Competition, Toronto, Canada, 2022.
 20. Excellence Diploma, ICPE-CA, EUROINVENT 2023.
 21. Inventions and Innovations Competition, Traian Vuia Timisoara, 2020, 2023.

ANNEXES

- Up-to date list of publications (books, handbooks, articles, studies, papers, national and international events, R&D contracts and projects).

05.10.2025

