

# Galal Emad Galal Sherif, Asst. Prof.

Assistant Professor (Materials Science) | Production Engineering and Mechanical Design  
Department- Faculty of Engineering - Minia University | Ph.D.

Mobile : (+20) 1099 635 089

Languages: Arabic (native) and English (fluent)

Address: Minya city - Egypt

Email: [galal.emad.sherif@gmail.com](mailto:galal.emad.sherif@gmail.com)

[LinkedIn profile](#)

[Google Scholar](#)

[Research Gate](#)

ORCID ID: 0000-0002-5009-7459

## Education

- **Ph.D. in Mechanical Engineering** (Materials Science), National University of Science and Technology, Moscow, Russia (2017 – 2022), “Composite materials based on high-temperature thermoplastic polymers reinforced with glass fiber”.
- **M.Sc. in Mechanical Engineering** (Materials Science), Minia University, Egypt (2012-2015), "Study of the strength of polymeric-matrix composites containing structural irregularities".
- **B.Sc. in Mechanical Engineering** (Production Engineering and Mechanical design) Very Good with Honors, Faculty of Engineering, Minia University, Egypt (2005-2010).

## Employment History

### **Faculty of Engineering – Minia University, Egypt**

**[Oct 2022 – Present]**

Governmental University, ranked #948 in Best Global Universities and 336 in Engineering with 10,001+ employees and 2,183 associated members. [website](#)

### **Assistant Professor - Production Engineering and Mechanical Design Department**

- Teaching undergraduate students (100+) and postgraduate students (5+) on average per year.
- Write, prepare, and mark assignments and examinations and provide feedback to students.
- Understand the background, interests, and learning styles of the students.
- Adapting teaching methods to cater to diverse learning preferences
- Clearly define and communicate the learning objectives for each lesson.
- Help students understand what they should be able to do or know by the end of the session.
- Use a variety of teaching methods to keep the class engaging (lectures, discussions, group activities, multimedia).
- Incorporate real-world examples and applications to illustrate concepts.
- Encourage students to think critically and analyze information rather than simply memorizing facts.
- Facilitate discussions that promote higher-order thinking.
- Participation in preparing the regulations for the College of Engineering

**National University of Science and Technology (MISiS), Moscow, Russia. [Oct. 2017 - Oct. 2022]**

Ranked #681-690 in QS World University Rankings 2024 and 91 in materials Science with 1,001+ employees.  
[website](#)

**Former Ph.D. student**

- Read and write a review study about the last progress in the expect point of study.
- Attendance at research seminars (6 seminars per year).
- Attendance at specialized courses.
- Preparation of works in international scientific congresses.
- Preparation and presentation of two formal seminars (1st in the first year and the 2nd before the thesis dissertation by 3 month).
- Attendance at the annual meeting of the doctorate.
- Publication in scientific journals.
- Transversal training.

**Faculty of Engineering - Minia University, Egypt.**

**[Mar. 2015 - Oct. 2017]**

**Lecturer Assistant - Production Engineering and Mechanical Design Department.**

- Deliver learning instructions, prepare Lesson plans.
- Develop all enrolled class lists.
- Have a good knowledge of entire syllabus' curriculum.
- Assist in the review of course content and materials on a regular basis, updating when
- required.

**Faculty of Engineering. Minia University. Egypt.**

**[Sep. 2012 - Mar. 2015]**

**Master Student - Production Engineering and Mechanical Design Department.**

- Determine relevant research objectives and prepare research proposals.
- Assist in aided Projects
- Identify sources of funding and carry out research relevant to the basic purposes of the College.
- Write or contribute to publications or disseminate research findings
- Make presentations or exhibitions at national and international conferences and other similar events.

**Faculty of Engineering - Minia University. Egypt.**

**[Apr. 2011 - Mar. 2015]**

**Demonstrator - Production Engineering and Mechanical Design Department.**

- Demonstrate use of practical equipment, conduct experiments, exercises, workshops, and/or processes and to answer questions related to those demonstrations.
- Assist/give guidance, where required, to students who are carrying out practical exercises etc.
- Responsible for the day-to-day operation of the laboratory.

- Be aware of any health and safety implications of procedures, and take action to maintain a safe environment, raising any concerns with the course organizer/work supervisor.
- Where required, provide feedback on student performance and any issues arising in the course of the demonstration, to the course organizer/work supervisor.
- Where required, to assist in marking student tests set by the course organizer using defined marking criteria where marking requires little or no interpretation.
- Where required, to ensure that equipment is functional and/or material for demonstrations, exercises etc. is prepared before the start of the session.
- Maintain student attendance records

### Honors and Awards

- Awarded an honorary diploma from the embassy of the Arab Republic of Egypt in the Russian Federation for scientific distinction, 2021.
- Awarded as a part of scientific team a grant from the Ministry of science and higher education of Russia in the framework of state assignment number 075-00268-20-02 dated 12 March 2020, state program of basic research “For the long-term development and ensuring the competitiveness of society and the state” on the base of the universities, the plan for basic scientific research number 718/20 dated 6 March 2020, project number 0718-2020-0036, (2020 – 2022).
- Awarded as a part of scientific team a grant from Russian Science Foundation Grant No. 18-19-00744 (2018-2020)
- Awarded a financial support of the Ministry of Science and Higher Education of the Russian Federation in the framework of Increase Competitiveness Program of MISiS (support project for young research engineers) (2018-2019).
- Awarded a Governmental mission from Egyptian Government to finish PhD study in MISiS University, RUSSIA (2017-2022).

### Teaching Courses

**I have about 12 years in teaching the following courses for undergraduate (UG) students**

1. Engineering Drawing Using Computer.
2. Mechanical Drawing.
3. Design of Machine Elements.
4. Machine Design.
5. Measurement Principles.
6. Material Handling Equipment.
7. Properties of Materials and its tests.
8. Design of Jigs and Fixtures.
9. Stress Analysis and Strength of Material.
10. Production Engineering.
11. Mechanical Vibration analysis.
12. Metal Forming.
13. Metal Cutting and Operations.
14. Metallurgy Physics.

15. Engineering Materials.
16. Design of Mechanical Systems.
17. Operations Research.

### Training: Courses & Workshops

- Total of (12) Training courses for faculty leadership & development, Minia University (2012-2020)
- Physics of nanoscale structures (Sep. 2021)
- Experimental methods for studying the structure of nanomaterials (Sep. 2020)
- Properties of Nano-systems (Apr. 2020)
- Modern methods for studying the structure of materials (Apr. 2020)
- Interaction with participants in the educational process (Sep. 2019)
- Academic Writing: Structuring Papers for International Journals (Sep. 2019)
- Materials technology (Apr. 2019)
- Physical research methods (Apr. 2019)
- Physical chemistry of nanomaterials (Apr. 2019)
- English for PhD students (B2C1) (Sep. 2018)
- Advanced Research Seminar (Sep. 2018)
- Research Seminar on Recent Topics in material science (Sep. 2018)
- Russian Language Course – Beginner (Oct. 2017)
- Advanced Communication Skills in different types of education. (Apr. 2014)
- Effective Presentation Skills. (Mar. 2014)
- Principles of Education Quality Management for Higher Institution. (Sep. 2012)
- Basic English Conversation Skills (BECS) (Apr. 2012)

### Relevant Experience

- I have about 3 years in Official Quality Assurance and Accreditation Unit, Department of Production Engineering and Mechanical Design.
- I have reviewed many articles for many international journals, including topics for: Polymers, Materials, Results in physics & Green Nanotechnology.

### Areas of Specialty

Stress Analysis, Strength of Materials, Composite Material Characterization, Mechanical Properties, Mechanical Behavior of Materials, Mechanical Testing, Material Characteristics, Materials Processing, Advanced Materials, Thermal Analysis, Materials Testing, Materials Technology, glass fibers, glass fiber sizing, composite interface, Polymers, Polymer Composites.

### Job-Related Skills

- Course in Research team management.
- Course in Scientific publishing.
- Course in Statistical analysis using SPSS.
- Course in Communication skills in different Education methods.

## Computer Skills

- AutoCAD Mechanical
- SolidWorks
- Office tools (word, Excel, PowerPoint, Publisher, Outlook, and Office Project)

## Publications

1. **Galal Sherif**, Dilyus I. Chukov, Victor V. Tcherdyntsev, Andrey A. Stepashkin, Mikhail Y. Zadorozhnyy, Yury M. Shulga, Eugene N. Kabachkov, “Surface Treatment Effect on the Mechanical and Thermal Behavior of the Glass Fabric Reinforced Polysulfone” *Polymers*, vol. 16, no. 6, 2024.
2. Ahmed Nabhan, **Galal Sherif**, Ragab Abouzeid, Mohamed Taha, “Mechanical and Tribological Performance of HDPE Matrix Reinforced by Hybrid Gr/TiO<sub>2</sub> NPs for Hip Joint Replacement” *Journal of Functional Biomaterials*, vol. 14, 2023. ([link](#))
3. Valerii G. Torokhov, Dilyus I. Chukov, Victor V. Tcherdyntsev, **Galal Sherif**, Mikhail Y. Zadorozhnyy, Andrey A. Stepashkin, Ilya I. Larin and Elena V. Medvedeva, “Mechanical and Thermophysical Properties of Carbon Fiber-Reinforced Polyethersulfone”, *Polymers*, vol. 14, no. 14, 2022. ([link](#))
4. D. Zhrebtsov, Dilyus Chukov, Isabelle Royaud, Marc Ponçot, Ilya Larin, Eugene S. Statnik, Taisia Drozdova, Alexey Kirichenko, Alexey Salimon, **Galal Sherif**, Cyril Besnard 8 and Alexander M. Korsunsky., “On the Structural Peculiarities of Self-Reinforced Composite Materials Based on UHMWPE Fibers,” *Polymers*, vol. 13, 2021. ([link](#))
5. E. Propylene, L. K. Olifirov, A. A. Stepashkin, **G. Sherif**, and V. V Tcherdyntsev, “Tribological, Mechanical and Thermal Properties of Fluorinated,” *Polymers*, vol. 13, 2021. ([link](#))
6. **G. Sherif**, D. I. Chukov, V. V. Tcherdyntsev, V. G. Torokhov, and D. D. Zhrebtsov, “Effect of glass fibers thermal treatment on the mechanical and thermal behavior of polysulfone based composites,” *Polymers*, vol. 12, no. 4, pp. 1–11, 2020. ([link](#))
7. D. Chukov, V. Torokhov, **G. Sherif**, and V. Tcherdyntsev, “Thermal treatment as an effective method of carbon/glass fibers surface modification for high-performance thermoplastic polymer matrix composites,” *Mater. Today Proc.*, vol. 33, pp. 2027–2031, 2020. ([link](#))
8. V. G. Torokhov, A. A. Stepashkin, M. Y. Zadorozhnyy, D. D. Zhrebtsov, and **G. Sherif**, “Structure and Properties of Polysulfone Filled with Modified Twill Weave Carbon Fabrics,” *Polymers*, vol. 12, pp. 13–15, 2020. ([link](#))
9. D. Chukov, S. Nematullov, V. Torokhov, A. Stepashkin, **G. Sherif**, and V. Tcherdyntsev, “Effect of carbon fiber surface modification on their interfacial interaction with polysulfone,” *Results in Physics*, vol. 15, no. July, pp. 0–3, 2019. ([link](#))
10. **G. Sherif**, D. Chukov, V. Tcherdyntsev, and V. Torokhov, “Effect of formation route on the mechanical properties of the polyethersulfone composites reinforced with glass fibers,” *Polymers*, vol. 11, no. 8, 2019. ([link](#))
11. **G. Emad Sherif**, Gamal Eldin A. Abu Elmagd, Mostafa A. Abdelrahman and Asaad A. Mazon, 'Effect of Holes on The Strength of Glass Woven Reinforced Epoxy', *MJET*, Vol. 34, Issue 1, pp. 73-85, 2015.

## Conference Presentations

1. Galal Sherif, Dilyus Chukov and Viktor V. Cherdyntsev, Influence of heat treatment of glass fiber on the properties of composites based on polysulfone // X-th Eurasian scientific and practical

conference "Strength of inhomogeneous structures PROST-2020/21", 20-22 April 2021 г., NUST "MISIS" University, Moscow, Russia.

2. Valerii Torokhov, Dilyus Chukov, Dmitry Zharebtsov and Galal Sherif, Development of carbon fiber reinforced composite materials, based on polyethersulfone matrix // The 10th International Conference on Key Engineering Materials (ICKEM 2020), 26-29 March 2020, Madrid, Spain.

3. Galal Sherif, Dilyus Chukov, and Victor Tcherdyntsev, Assessment of the mechanical performance of polyethersulfone and polysulfone composites reinforced with thermal treatment glass fibers //The 10th International Conference on Key Engineering Materials (ICKEM 2020), 26-29 March 2020, Madrid, Spain.

## References:

- Prof. Dr. Sergey Dmitrievich Kaloshkin, Director of the Institute of New Materials and Nanotechnologies, MISiS University, Moscow, Russia, email: [kaloshkin@isis.ru](mailto:kaloshkin@isis.ru), Phone: +7 495 638-45-95.
- Asoc. Prof. Dr. Viktor Viktorovich Cherdynstev, Head of the Laboratory of Functional Polymer Materials, MISiS University, Moscow, Russia, email: [vvch@isis.ru](mailto:vvch@isis.ru), Phone: +7 495 638-45-95.
- Asoc. Prof. Dr. Dilyus Irekovich Chukov, Senior Researcher, Laboratory of Functional Polymer Materials, MISiS University, Moscow, Russia, email: [dil\\_chukov@mail.ru](mailto:dil_chukov@mail.ru), Phone: +7 495 638-44-13.
- Prof. Dr. Mostafa Mahmoud Mostafa, Dean of the Faculty of Engineering, Minia University, Egypt, email [Dean.eng@mu.edu.eg](mailto:Dean.eng@mu.edu.eg), Phone: +201092802122.
- Prof. Dr. Nouby Mahdy Ghazaly, Dean of the Faculty of Engineering, South Valley University, Egypt, email: [nouby.ghazaly@eng.svu.edu.eg](mailto:nouby.ghazaly@eng.svu.edu.eg), Phone: +201010561818.
- Prof. Dr. Waheed Yosry Ali, Faculty of Engineering, Minia University, Egypt, email: [Wahyos@hotmail.com](mailto:Wahyos@hotmail.com), Phone: +201001293712.
- Prof. Dr. Medhat Ibrahim Khashaba, Faculty of Engineering, Minia University, Egypt, email: [M.I.Khashaba@gmail.com](mailto:M.I.Khashaba@gmail.com), Phone: +201112409330.