

"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IAȘI
FACULTY OF INDUSTRIAL DESIGN AND BUSINESS MANAGEMENT
DEPARTMENT OF CHEMICAL ENGINEERING IN TEXTILES AND LEATHER

Competition for the position of **Associate Professor**, position no. 3

Courses: Processes and Equipment in Textile Finishing II
 Processes and Equipment in Finishing of Textile Materials from Natural Fibers
 Aromatherapeutic Textiles

TOPICS OF COMPETITION

for the position of Associate Professor

- I. Essential oils: chemical composition; extraction methods; the effects of essential oils on the human body.
- II. Models for the release of essential oils from textile substrates. Criteria for comparing these models.
- III. Testing methods for aromatherapeutic textiles.
- IV. Equipment for printing of textile materials.
- V. Universal machine for dyeing textiles in wide sheet form, the jigger. Sizing of the heating system.
- VI. Establishing the dyeing diagram for the discontinuous process.

Bibliography:

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2. Angela Danila, Laura Chirilă, Chapter 2: Skincare Finishes to Textiles, In book: Innovative and Emerging Technologies for Textile Dyeing and Finishing, Book Editor(s):Luqman Jameel Rather, Aminoddin Haji, Mohd Shabbir, Print ISBN:9781119710141 |Online ISBN:9781119710288, 2021, pg. 45-48, WILEY publisher, Hoboken, New Jersey, United States
3. Danila, A. (2024). Biopolymers in Aromatherapeutic Textiles. In: Ahmed, S., Shabbir, M. (eds) Biopolymers in the Textile Industry. Springer, Singapore. https://doi.org/10.1007/978-981-97-0684-6_6
4. Cerempei, A., Mureșan, R., Butnaru, R., 2010, Materiale Textile Multifuncționale, Editura "Performantica", Iasi, 116 pg., ISBN- 978-973-730-684-5
5. Angela Danila, Emil Ioan Muresan, Sorin-Alexandru Ibanescu, Alina Popescu, Maricel Danu, Carmen Zaharia, Gizem Ceylan Türkoglu, Gokhan Erkan, Adela-Ioana Staras, Preparation, characterization, and application of polysaccharide-based emulsions incorporated with lavender essential oil for skin-friendly cellulosic support, International Journal of Biological Macromolecules 191 (2021) 405–413. ISSN 01418130 DOI 10.1016/j.ijbiomac.2021.09.090
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10. Danila A., Muresan E.I., Radu C.D., Muresan A., Popescu A., Chirila L., Costan L.I., Kinetic modeling on rosemary essential oil release from beeswax matrix, "The 7th International Technical Textiles Congress-ITTC 2018", 10-12 October 2018, Izmir, Turcia, pp.211-214, ISBN: 978-975-441-512-4
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Dean,
Assoc. prof. dr. eng. Savin Dorin Ionesi

Department Director
Prof. dr. eng. Vasilica Popescu