

"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IAȘI

Faculty of Industrial Design and Business Management

Knitting and Clothing Engineering Department

Competition for the position of **Professor, position 7** from the List of Positions for Academic Staff

Position subjects: Structure and Patterning of Textile Garments
 Computer-Aided Design- Apparel
 Structure and Patterning of Textile Garments I

TOPICS OF COMPETITION

For the position of **Professor**

1. Characterisation of the shape of the human body based on morphological indicators.
2. Standardisation. Systems for size designation.
3. Methods for designing the flat shapes of textile garments.
4. Technical modelling principles for garments with flexible shapes.
5. Elements of technical documentation for textile clothing. Dimension table.
6. Designing the shape of garments parts using the functions of Pattern Design X20 (Gemini CAD).
7. Grading. Designing production patterns. Graphic resources.
8. Pattern Design X20 functions to change the shape of the garment pieces.
9. Marker manager- CutPlanner (Gemini CAD).
10. Marker making - Nest Expert (Gemini CAD): simple materials and materials with motifs (markers with dependencies).

References

1. Aldrich Winifred, *Metric Pattern Cutting for Women's Wear*, Ed. Willey, Cod: BRT9781444335057, 2015
2. Aldrich Winifred, *Metric Pattern Cutting for Menswear*, Ed. Willey, Cod: BRT9781405182935, 2011
3. Bianca Aluculesei, Sybille Krzywinski, Antonela Curteza, Manuela Avadanei, *Digital methods in developing textile products for people with locomotor disabilities*, Materials Research Foundations Vol. 110, Publication Date 2021, 144 Pages, Print ISBN 978-1-64490-154-0 (release date October 2021), ePDF ISBN 978-1-64490-155-7, DOI: 10.21741/9781644901557
4. Helen Armstrong, *Patternmaking for Fashion Design*, ISBN-13: 978-0136069348, ISBN-10: 9780136069348, 2016
5. Brumariu, A., Mitu, S., Filipescu, E., Avădanei, M., etc., *Proiectarea constructivă a produselor de îmbrăcăminte, cap. VII.5, în Manualul inginerului textilist*, vol. II, partea B, Lucrare editată de Ministerul Educației, Cercetării și Tineretului, Banca Comercială Română, 2003, ISBN 973-8466-10-5, ISBN 973-8466-96-2

6. Donnano Antonio, *Fashion Patternmaking Techniques, Volume 1: How to Make Skirts, Trousers and Shirts. Women/Men*, ISBN13 (EAN): 9788415967095, 2014
7. Emilia, Filipescu, Manuela, Avădanei, -*Structura și proiectarea confecțiilor textile. Îndrumar laborator*, Ed. Performantica, Iași, 2007, ISBN 978-973-730-412-4,
8. Hye Suk Kim, Hee Eun Choi, Chang Kyu Park & Yun Ja Nam, *Standardization of the size and shape of virtual human body for apparel products*, Fashion and Textiles volume 6, Article number: 33 (2019)
9. Jansen, Rudiger, *Systemschnitt I, II*, 1994, Berlin
10. Jennifer Lynne Matthews – Fairbanks, *Pattern Design: Fundamentals - Construction and Pattern Making for Fashion Design*, ISBN: 9780463937778, 2018
11. M. Müller & Sohn, *Fundamentals Menswear*, Reviewed and updated edition (2019) // PDF Download
12. M. Müller & Sohn, *Metric Pattern Making for Blouses and Dresses*, First English Edition 2015
13. Martin Shoben, Patrick J. Taylor, *Grading for the Fashion Industry: The Theory and Practice*, LCFS Fashion Media, ISBN-10 0953239519, 2004
14. Norsaadah Zakaria, Deepti Gupta, *Anthropometry, Apparel Sizing and Design*, Second Edition 2019, eBook ISBN: 9780081026052, Paperback ISBN: 9780081026045
15. * * * *Damen- Rundschau*, Colecția 1992, 1993, 1995
16. * * * *Herren- Rundschau*, Colecția 1993
17. <https://mycad.geminicad.com>

Dean,

Associate Prof. Mariana Ursache, PhD eng.



Head of department,

Associate Prof. Savin Dorin Ionesi, PhD eng.