Dr. Tabinda Riaz

Assistant Professor

Institute of Polymer and Textile Engineering

University of the Punjab, Lahore-Pakistan

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Contact Number: +923234438691

Date of birth: 13-02-1987

Nationality: Pakistani

PROFESSIONAL EXPERIENCE

09/2014 till date

Assistant Professor
Institute of Polymer and Textile Engineering

University of the Punjab, Lahore-Pakistan

Contribution

- Teaching and counseling of M. Phil. Polymer and Textile Engineering students
- Teaching courses such as Polymer Synthesis and Characterization, Nanomaterials and Nanotechnology, Research Methodology
- Developed and worked on the approval of the coursework for B.Sc., M.Sc. Textile Engineering and M.Sc. Textile Processing Technology
- Developed and worked on the approval of the coursework for B.Sc. Polymer Engineering and M.Phil. Polymer Engineering
- Designed and worked on the approval of coursework of three postgraduate diploma courses in the field of Textile Merchandizing, Testing and Quality Control and Denim Manufacturing
- Conducted research in the field of electrospun wound dressings and hydrogels for biomedical applications as well as water desalination membranes
- Teaching and counseling of students.
- Managing laboratory resources and equipment

09/2010 to 09/2014	**Lecturer** School of Textile and Design The University of Management and Technology, Lahore-Pakistan **Contribution** • Developed various textile courses for B.Sc. programs. • Taught courses such as Introduction to Apparel Manufacturing, Anthropometry and Clothing Construction, Garment Machinery, Apparel Merchandizing and Principles of Marketing
12/2009 to 09/2010	**Trainee Manager** Garments Division Masood Textile Mills Ltd. Faisalabad-Pakistan

PROFESSIONAL EDUCATION

2017-2020	University of Haute Alsace, Mulhouse-France **Ph.D. in Materials Chemistry** *Thesis title: Fabrication and characterization of a modern bilayer wound dressing for biomedical applications*
2010-2014	The University of Management and Technology, Lahore-Pakistan **M.Sc. in Textile Science** CGPA: 3.83/4.00 (A*)
2005-2009	National Textile University Faisalabad-Pakistan **B.Sc. Textile Engineering** Majors in Garments Manufacturing Technology CGPA: 3.48/4.00 (A)

AWARDS AND MEMBERSHIIPS

Award	**Gold Medalist** in B.Sc. Textile Engineering
Memberships	• Member Board of Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore • Member Board of Studies, Textiles and Fashion Department, University of Home Economics, Lahore • Member Pakistan Engineering Counsel (PEC)

SOCIAL SKILLS

- Counseling and mentoring of M. Phil. and M. Sc. students
- Industry academia liaison committee member
- Performing as students' course coordinator
- Member of PU women rights forum

INTERNATIONAL CONFERENCES

03/2020 **International Congress of "Apollonia" University of Iasi, ROMANIA.**
Poster presentation, **Tabinda RIAZ,** Christelle DELAITE, Dominique ADOLPHE, Nabyl KHENOUSSI, Delia Mihaela RATA and Leonard ATANASE. "Electrospun bi-layer membrane of PCL nanofibers with IBU/HA deposited on GE/HA film for wound dressing application".

03/2019 **International Congress of "Apollonia" University of Iasi, ROMANIA.**
Poster presentation, **Tabinda RIAZ,** Delia Mihaela RATA, Leonard ATANASE, Christelle DELAITE, Nabyl KHENOUSSI and Dominique ADOLPHE. "Drug release kinetics from Ibuprofen-loaded PCL electrospun nanofibers: the influence of drug loading in chitosan-based nanocapsules".

02/2019 **International Conference on Materials Science and Engineering, San Francisco-UNITED STATES. (Won 3rd Position)**
Two poster presentations, **Tabinda RIAZ**, Delia Mihaela RATA, Leonard ATANASE, Christelle DELAITE, Nabyl KHENOUSSI and Dominique ADOLPHE. "Study of Ibuprofen-loaded PCL nanofibers and nanocapsules: Drug release kinetics and their characterization." And "Tailoring the crystallinity ratio and hydrophilicity of nanofibers by blend electrospinning of PCL/PEG" and "Study of Ibuprofen-loaded PCL nanofibers and nanocapsules: Drug release kinetics and their characterization".

06/2018 **18th AUTEX World Textile Conference, Istanbul-TURKEY**
Poster presentation, **Tabinda RIAZ,** Christelle DELAITE, Nabyl KHENOUSSI, Dominique ADOLPHE and Laurence SCHACHER. "A Study of Electrospinning and Characterization of Poly(Ɛ-caprolactone) Nanofibers".

RESEARCH PUBLICATIONS

2021 **Tabinda Riaz**, Nabyl Khenoussi, Delia Mihaela Rata, Leonard Ionut Atanase, Dominique C. Adolphe and Christelle Delaite, *"Blend electrospinning of poly(Ɛ-caprolactone) and poly(ethylene glycol-400) nanofibers loaded with Ibuprofen as a potential drug delivery system for wound dressings",* published in AUTEX Research Journal. https://doi.org/10.2478/aut-2021-0017

2021 Zunaira Huma Ghauri, Atif Islam, Muhammad Abdul Qadir, Nafisa Gull, Bilal Haider, Rafi Ullah Khan and **Tabinda Riaz,** *"Development and evaluation of pH-sensitive biodegradable ternary blended hydrogel films (chitosan/guar gum/PVP) for drug delivery applications",* published in journal of Scientific Reports. https://doi.org/10.1038/s41598-021-00452-x

2021 Adnan Ahmad, Sadia Sagar Iqbal, **Tabinda Riaz,** Ali Bahadar, Aneela Sabir, Rafi Ullah Khan and Fawad Inam, *"Novel antibacterial polyurethane and cellulose acetate mixed matrix membrane modified with functionalized TiO2 nanoparticles for water treatment applications"*, accepted in journal of Chemosphere.

2021 Najma Rehman, Muhammad Rizwan Dilshad, Atif Islam, Nafisa Gull, **Tabinda Riaz**, Shahzad Maqsood Khan and Rafi Ullah Khan, *"Novel graphene oxide loaded sodium alginate hydrogels cross-linked with tetraethyl orthosilicate for cephradine release analysis",* published in the Journal of Drug Delivery Science and Technology, https://doi.org/10.1016/j.jddst.2021.102784

2021 Sadia Sagar Iqbal, Ali Bahadar, Nazia Hossain, Nafisa Gull, Tasawer Shahzad Ahmad, Nimra Ehsan, Saba Urooge Khan and **Tabinda Riaz,** *"Synergetic influence of F-MWCNTS on polyvinylpyrrolidone sodium alginate composite membrane for reverse osmosis"* published in Journal of Environmental Chemical Engineering, https://org/10.1016/j.jece.2021.106085

2020 Sidra Saleemi, Tayab Naveed, **Tabinda Riaz**, Hafeezullah Memon, Javeed Ashraf Awan, M. Irfan Siyal, Fujun Xu and Jihyun Bae *"Surface Functionalization of Cotton and PC Fabrics Using SiO2 and ZnO Nanoparticles for Durable Flame Retardant Properties"* published in journal of Coatings, https://doi:10.3390/coatings10020124

2018 **Tabinda Riaz,** Christelle Delaite, Nabyl Khenoussi, Dominique Adolphe and Laurence Schacher, *"A study of electrospinning and characterization of Poly(Ɛ-*

caprolactone) nanofibers", published in Journal of Fashion Technology and Textile Engineering, https://doi:10.4172/2329-9568.S5-005

2017 Adnan Ahmad, Muhammad Adrees, Fahad Jamshaid, Sadia Sagar Iqbal**,** **Tabinda Riaz**, Hira Zaheer, Aneela Sabir, Tahir Jamil, *"Novel Polyurethane/Polyvinyl Chloride-Co-Vinyl Acetate Crosslinked Membrane for Desalination of Saline Water",* published in Desalination, https://doi.org/10.1016/j.desal.2017.07.007

2016 **Tabinda Riaz,** Adnan Ahmed, Fahad Jamshed, Sidra Saleemi, Abdulmoqeet Hai, Tahir Jamil, *"Synthesis and Characterization of Polyurethane-Cellulose Acetate blend membrane for Chromium (VI) removal*", published in the journal of Carbohydrate Polymers, https://doi.org/10.1016/j.carbpol.2016.08.011

2016 Adnan Ahmed, Fahad Jamshed, **Tabinda Riaz,** Tahir Jamil, *"Self-Sterilized Composite Membranes of Cellulose Acetate/Polyethylene Glycol for Water Desalination"* published in the journal of Carbohydrate Polymers, https://doi.org/10.1016/j.carbpol.2016.04.104

RESEARCH PROJECTS AND GRANTS

2021-22 Based in University of the Punjab, Lahore-Pakistan
Fabrication of an active wound dressing equipped with a drug delivery system embedded in electrospun nanofibers

2015-16 Based in University of the Punjab, Lahore-Pakistan
Development of Polyurethane Coated Breathable Fabric for Extreme Weather Garments

2014-15 Based in University of the Punjab, Lahore-Pakistan
Recent advancement for the surface modification of reverse osmosis membranes