

Dr. Bilal Zahid

PhD (Textile Science & Technology), M.Engg. (Textile Engineering),
M.B.A. (Textile Management), B.E. (Textile Engineering).

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Profile

Dr. Bilal Zahid's remarkable accomplishments in both academia and industry speak volumes about his unwavering dedication and passion for Textile Engineering. His exceptional expertise in Technical Textiles, Fabric Designing and Manufacturing, and Textile Reinforced Composites is highly respected in the industry. Dr. Zahid's extensive research publications and consulting work have made significant contributions to the field's advancement. As Director General of NED Academy, Dr. Zahid is commended for his unwavering commitment to providing high-quality education and training to professionals and the public. His exemplary leadership skills have greatly enhanced the university's programs. In recognition of his outstanding contribution to imparting knowledge and expertise while demonstrating a sincere interest in developing his students' technical skills, Dr. Zahid was awarded the "Best Teacher Award 2020" by both the NED Alumni Association of Southern California, USA, and NED University of Engineering & Technology, Pakistan in 2022. Overall, Dr. Zahid's invaluable contributions to the field of Textile Engineering and NED University of Engineering & Technology are a testament to his exceptional skills and dedication. He continues to inspire and motivate students and professionals alike, and his impact on the industry will undoubtedly be felt for years to come.

Education

The University of Manchester, England, United Kingdom.

Doctor of Philosophy (PhD), Textile Science & Technology, 2008 - 2012

NED University of Engineering and Technology, Karachi, Pakistan.

Master of Engineering (M.Engg.), Textile Engineering, 2005 - 2007

Preston Institute of Science & Technology, Karachi, Pakistan.

Master of Business Administration (M.B.A.), Textile Management, 2002 - 2003

NED University of Engineering and Technology, Karachi, Pakistan.

Bachelor of Engineering (B.E.), Textile Engineering, 1997 - 2001

Adamjee Government Science College, Karachi, Pakistan.

Higher Secondary School Certificate (H.S.C.), Pre-Engineering, 1995 - 1996

Chiniot Islamia Public School, Karachi, Pakistan.

Secondary School Certificate (S.S.C.), Science, 1993 - 1994

LIST OF PUBLICATIONS

S.NO. INTERNATIONAL JOURNAL PUBLICATIONS

- 1 0021-9983**
Zahid, B., & Chen, X., *Manufacturing of single-piece textile reinforced riot helmet shell from vacuum bagging*. Journal of Composite Materials, 47(19), pp. 2343–2351. 2013, (United Kingdom).
<https://doi.org/10.1177/0021998312457703>
- 2 0021-9983**
Zahid, B., & Chen, X. *Properties of 5-layer angle-interlock Kevlar-based composite structure manufactured from vacuum bagging*. Journal of Composite Materials, 47(25), pp.3227–3234, 2013, (United Kingdom).
<https://doi.org/10.1177/0021998312463457>
- 3 0959-6526**
Muhammad Mohsin, Syed Waqas Ahmad, Awais Khatri, Bilal Zahid, *Performance enhancement of fire retardant finish with environment friendly bio cross-linker for cotton*. Journal of Cleaner Production, Vol. 51, pp.191-195, 2013, (USA).
<https://doi.org/10.1016/j.jclepro.2013.01.031>
- 4 0021-9983**
Zahid, B., & Chen, X. *Impact performance of single-piece continuously textile reinforced riot helmet shells*. Journal of Composite Materials, 48(6), pp.761–766, 2014, (United Kingdom).
<https://doi.org/10.1177/0021998313477173>
- 5 0731-6844**
Zahid, B., & Chen, X. *Impact evaluation of Kevlar-based angle-interlock woven textile composite structures*. Journal of Reinforced Plastics and Composites, 32(12), pp.925–932, (2013), (United Kingdom).
<https://doi.org/10.1177/0731684413480006>
- 6 2325-0119**
Bilal Zahid, Xiaogang Chen, *Development of a Helmet Test Rig for Continuously Textile Reinforced Riot Helmets*, International Journal of Textile Science, Vol. 2 No. 1, pp. 12-20, 2013, (USA).
doi: 10.5923/j.textile.20130201.03
- 7 2325-0003**
Bilal Zahid, Xiaogang Chen, *Development of an Impact Simulation Model of Riot Helmet Shells*, Journal of Safety Engineering, Vol. 2 No. 2, pp. 20-25, 2013, (USA).
doi: 10.5923/j.safety.20130202.02
- 8 2325-0119**
Bilal Zahid, Xiaogang Chen, *Energy Absorption at Different Impact Locations of Riot Helmet Shells*, International Journal of Textile Science, Vol. 2 No. 4, pp. 126-131. 2013, (USA).
doi: 10.5923/j.textile.20130204.07

- 9** **1229-9197**
Mahmood, A.H., Khan, L.A. & Zahid, B. *Mechanical properties of composites made from locally manufactured carbon fabrics and the composites produced from air-textured glass yarns*. *Fibers Polymers* 15, pp.1004–1009, (2014), (Korea).
<https://doi.org/10.1007/s12221-014-1004-3>
- 10** **1528-0837**
Zahid, B., & Chen, X. *Effect of Liner for Single-Piece Continuously Textile Reinforced Riot Helmet Shells*. *Journal of Industrial Textiles*, 2016, 45(6), pp.1652-1660, (United Kingdom).
<https://doi.org/10.1177/1528083715569371>
- 11** **0167-7322**
Mahar, F. K.; Mehdi, M.; Qureshi, U. A.; Brohi, K. M.; Zahid, B.; Ahmed, F.; Khatri, Z., *Dyeability of recycled electrospun polyethylene terephthalate (PET) nanofibers: Kinetics and thermodynamic study*. *Journal Of Molecular Liquids*. 2017, Volume 248, Issue 12, pp. 911-919, (USA).
<https://doi.org/10.1016/j.molliq.2017.10.116>
- 12** **1222-5347**
Rajput, A. W.; Zahid, B.; Jamshaid H.; Ali, U.; Abbas, A.; Qureshi, R. F., *Application of Taguchi method to investigate the effect of temperature, heating time, concentrate and particle size on improved gel spinning process of UHMWPE*, *Industria Textila* 2018, Volume 69, Issue 5, pp. 347 – 351, (Romania).
<http://doi.org/10.35530/IT.069.05.1468>
- 13** **2227-524X**
Yahya, M.F.; Ghani, S. A.; Zahid, B., *Uniaxial Tensile Simulation of 3D Orthogonal Woven Fabric*. *International Journal Of Engineering & Technology* 2018, Volume 7, Issue 15, pp. 197-200, (UAE).
<http://dx.doi.org/10.14419/ijet.v7i3.15.17529>
- 14** **1222-5347**
Zahid, B.; Jamshaid H.; Rajput, A. W.; Yahya, M. F.; Khatri Shakeel, *Effect of cell size on tensile strength and elongation properties of honeycomb weave*, *Industria Textila* 2019, Volume 70, Issue 2, pp. 133-138, (Romania).
<http://doi.org/10.35530/IT.070.02.1558>
- 15** **1304-7205**
Zakaria, K.; Huma, S.; Zahid, B., *Time-frequency analysis of EEG data to distinguish different mental states by using global wavelet spectrum*, *Sigma Journal of Engineering and Natural Sciences* 2019, Volume 10, Issue 3 (Special Issue_ICAAMM-2019), pp. 355-362, (Turkey).
- 16** **1222-5347**
Jamshaid H.; Rajput, A. W.; Zahid, B.; Asfand N.; Basra S. A.; Ali A., *Comparison of functional properties of woven and knitted denim fabrics*, *Industria Textila* 2020, Volume 71, Issue 1, pp. 3-7, (Romania).
<http://doi.org/10.35530/IT.071.01.1604>

- 17 **1222-5347**
Basra, S.A., Rajput, A.W., Zahid, B., Asfand, N., Azam, Z., Jamshaid, H., *Investigations of stretch and recovery properties of knitted socks*, In: *Industria Textila*, 2020, 71, 2, pp. 132–137, (Romania).
<http://doi.org/10.35530/IT.071.02.1671>
- 18 **1222-5347**
Zahid, B., Ali, M., Zubair, M., Mehmood, K., *Effect of Caustic Treatment on Cotton/Modal Blended Fabric*, In: *Industria Textila*, 2020, 71, 5, pp. 427–431, (Romania).
<http://doi.org/10.35530/it.071.05.1726>
- 19 **1230-3666**
Jamshaid H, Rajput AW, Zahid B, Hussain S, *Characterisation of Interlock Knitted Fabric with Different Feed Patterns to Improve Thermal and Sensorial Comfort*. In: *Fibres & Textiles in Eastern Europe*, 2021; 29, 3(147): pp. 80-85. (Poland).
<http://doi.org/10.5604/01.3001.0014.7791>
- 20 **1230-3666**
Jamshaid H, Rajput AW, Zahid B, Hussain S, Husain U, *Performance Evaluation of Upholstery Fabric Developed from Recycled Fibers*, In: *Fibres & Textiles in Eastern Europe*, 2021, 29, 5(149): pp 46-49. (Poland).
<http://doi.org/10.5604/01.3001.0014.9296>
- 21 **1222-5347**
Zahid B, Jamshaid H, Rajput AW, Chen X., *Impact Properties of Continuously Textile Reinforced Double Fabric Layered Riot- Police-Helmet-Shells*, In: *Industria Textila*, 2021, 72, 5, pp 485-490. (Romania).
<http://doi.org/10.35530/IT.072.05.1820>
- 22 **1222-5347**
Rajput AW, Ali A, Zahid B, Jamshaid H, Memon S, Waleed M, *Comparative analysis of 100% Cotton Siro and Single Yarns*, In: *Industria Textila*, 2021, 72, 6, pp 619-622. (Romania).
<http://doi.org/10.35530/IT.072.06.1815>
- 23 **2073-4360**
Jamshaid H, Mishra R, Zeeshan M, Zahid B, Basra S.A., Tichy M, Muller M, *Mechanical Performance of Knitted Hollow Composites from Recycled Cotton and Glass Fibers for Packaging Applications*, In: *Polymers*, 2021, 13, 14, pp 1-21. (Switzerland)
<https://doi.org/10.3390/polym13142381>
- 24 **1754-2340**
Irfan M, Zahid B, Sidique S.H, Jamshaid H, Rajput AW & Hou A., *The Effect of Degree of Curvature and Fabric Orientation on The Impact Properties of Single and Multilayer Textile Composites*, In: *The Journal of Textile Institute*, 2022, 113, 1, pp 54–59 (UK).
<http://doi.org/10.1080/00405000.2020.1863566>
- 25 **1754-2340**
Asad-ur-Rehman Khan, Shamsoun Fareed & Bilal Zahid, *Use of High Strength Technical Textiles in Strengthening of Reinforced Concrete Structural Elements*, In: *The Journal of The Textile Institute*, 2022, 113, 2, pp 281–291 (UK).
<http://doi.org/10.1080/00405000.2020.1870784>

- 26 **0032-2725**
Jamshaid, H., Rajput, A. W., Zahid, B., Memon, S., Qureshi, R. F., Aslam, S., & Nadeem, M. *The Effect of Basalt Knitted Fabric on The Properties of Green Epoxy Resin*. In: Polimery, 2022, 67(2), 67-71, (Poland).
<https://doi.org/10.14314/polimery.2022.2.3>
- 27 **1222-5347**
Zulkifli, M., Chik, A., Zahid, B., Yahya. M. *Effects of Impactors' Shape on Three-Dimensional Woven Fabric Composites at Low-Velocity Impacts*. In: Industria Textila, 2022, 73, 6, pp 621-626. (Romania).
<http://doi.org/10.35530/IT.073.06.202193>

NATIONAL JOURNAL PUBLICATIONS

- 28 **2413-7219**
Zahid, Bilal; Faisal, Saira; Siddiqui, Sheraz Hussain. *Analysis of Caustic Soda of Different Manufacturers in Pakistan for Mercerization of Cotton Textiles*. Mehran University Research Journal of Engineering and Technology, Oct. 2017, v. 36, n. 4, pp. 10, (Pakistan).
<http://dx.doi.org/10.22581/muet1982.1704.10>
- 29 **2413-7219**
Zahid, Bilal; Faisal, Saira; Siddiqui, Sheraz Hussain *Tensile Properties of Bagasse Fiber Composites*, In: 2021, v. 40, n. 3, pp. 502-511. Mehran University Research Journal of Engineering & Technology, Pakistan.
<https://doi.org/10.22581/muet1982.2103.05>

CONFERENCE PUBLICATIONS

- 1 Bilal Zahid, Xiaogang Chen, *Riot Helmet Shells with Continuous Textile Reinforcement for Impact Protection*. Proceedings of the 3rd World Conference on 3D Fabrics and Their Applications. World Academic Union. April 2011, Wuhan, P.R. China.
<https://texeng.net/3dfabrics-3rd/>
- 2 Shengnan Min, Christian Roedel, Bilal Zahid, Xiaogang Chen, *Moulding of single-piece woven fabrics for protective helmets --- A review and future work*. 4th World Conference on 3D Fabrics and Their Applications, 2012, Aachen, Germany.
<https://www.escholar.manchester.ac.uk/jrnl/item/?pid=uk-ac-man-scw:171244>
- 3 Husain, M.D.; Zahid, B.; Mahboob, F., *Development of Puncture Resistance Glove*. International Conference on Emerging Trends in Knitting, National Textile University, Faisalabad 7-8 Feb, 2018, (Pakistan).
<http://ntu.edu.pk/etk/>
- 4 Zahid, B.; *Development of textile fibre continuously reinforced industrial-helmet shell for head protection*, Poster Presentation, 6-8 March 2018, AATCC International Conference, South Carolina United States, (USA).
<https://www.aatcc.org/>
- 5 P. Díaz-García, L. Capablanca-Francés, R. Belda-Anaya, M. Tufali, B. Zahid, A.W. Rajput (2022), *SMARTEX Project-Transnational Cooperation Between Universities*,

15th annual International Conference of Education, Research and Innovation, (Seville, Spain). pp. 4079-4084.

<https://library.iated.org/view/DIAZGARCIA2022SMA>

- 6 C. Hertleer, B. Malengier, G. Priniotakis, P. Diaz Garcia, L. Anthopoulou, M. Rozi Ahmad, S. Hana Nasir, I. Nuramdhani, B. Titisari, A. Waqar, B. Zahid (2022), *Modernisation of Curricula In Technical And Smart Textiles*, 21st World Textile Conference AUTEX 2022-Proceeding, Lodz University of Technology Press, Lodz 2022, ISBN 978-83-66741-75-1. Poland.
<http://hdl.handle.net/11652/4484>
- 7 P. Díaz-García, L. Capablanca-Francés, R. Belda-Anaya, M. Tufail, B. Zahid, A. Waqar Rajput (2022), *Proyecto Smartex – Compartiendo Conocimientos*, IX Congress R+D+I Campus de Alcoy. Creando Sinergias, Higher Polytechnic School of Alcoy, University of Valencia, Spain.
https://www.researchgate.net/publication/366029818_Proyecto_Smartex_-_Compartiendo_conocimientos
- 8 C. Hertleer, B. Malengier, G. Priniotakis, P. Diaz Garcia, L. Anthopoulou, M. Rozi Ahmad, S. Hana Nasir, I. Nuramdhani, B. Titisari, A. Waqar, B. Zahid, (2022), *Modernization of Curricula in Technical and Smart Textiles*, 4th Indonesian Textile Conference 2022, Bandung, Indonesia.
<https://itc.stttekstil.ac.id/>
- 9 B. Zahid, M. Tufail, (2022), *Single-Piece Textile Reinforced Composite Helmet Shells*, 4th Indonesian Textile Conference 2022, Bandung, Indonesia.
<https://itc.stttekstil.ac.id/>
- 10 M. Tufail, B. Zahid, (2022), *Industry 4.0; A Textile Industry Perspective*, 4th Indonesian Textile Conference 2022, Bandung, Indonesia.
<https://itc.stttekstil.ac.id/>

PHD THESIS PUBLICATION

- 1 **Riot Helmet Shells with Continuous Reinforcement for Improved Protection**
Dr. Bilal Zahid
[Thesis]. Manchester, UK: The University of Manchester; 2012.

Other Research Activities & Services Activities

Funded Project

- Awarded as **Principal Investigator**, by NED Alumni Association of Southern California, USA, and NED University of Engineering & Technology, Pakistan awarded Rs. 85,000/- for the project “Development and Characterization of Automobile Parts” in 2022. The project was successfully completed in 2022.
- Working as “**Co-Principal Investigator**” in a project, titled “Development of FRP Composite Systems for Retrofitting/Rehabilitation of Civil Infrastructure Facilities” awarded

by Advance Study Research Board (ASRB) of NEDUET. The funding amount is Rs. 800,000/-. The project successfully completed in 2021.

- Working as “**Project Manager**” in a project, titled “Smart textiles - Modernization of curriculum of Textile Engineering and Textile Technology in Indonesia, Malaysia and Pakistan”, awarded by Erasmus-plus (**European Union**). The project funding amount is Euro 113,130/-. The project will be completed in 2023.
- Awarded as **Principal Investigator**, by Advance Study Research Board (ASRB) of NEDUET Rs. 890,000/- for the project “Characterization of Machining Parameters of Textile Reinforced Composites” in 2021. The project was successfully completed in 2022.
- Worked as “**Co-Investigator**” in a project, titled “Initial on the utilization of EPCL effluent water in Textile Industry”, awarded by M/s. Engro Polymer and Chemicals in 2015. The project was successfully completed and delivered to M/s. Engro Polymer and Chemicals in 2015. This was an unpaid project for a month.
- Work as “**Principal Investigator**” in a project, titled “To investigate the effect of caustic soda on fabric properties after the processes of scouring and mercerization”, awarded by M/s. Engro Polymer and Chemicals in 2014. The project funding was Rs. 200,000/- The project was successfully completed and delivered to M/s. Engro Polymer and Chemicals in 2015. It was the **first ever industry funded project delivered by the Department of Textile Engineering**, NED University of Engineering & Technology, Karachi.

Manuscript Reviewer

- Currently Manuscript Reviewer in the following International Journals:
 - Journal of Industrial Textiles (JIT)
 - Textile Research Journal (TRJ)
 - International Journal of Textile Science (IJTS)
- Manuscript Reviewer in the 4th Indonesian Textile Conference 2022, held on July 28, 2022, at Polytechnic of Textile Technology, Bandung, Indonesia.
- Manuscript Reviewer in the 5th NED International Textile Conference held on November 16-17, 2022, at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in the 4th NED International Textile Conference held on March 2 – 3, 2020 at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in the 3rd NED International Textile Conference held on January 10 – 11, 2018 at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in the 2nd NED International Textile Conference on Research, Innovation and advancement held on February 17-18, 2016 at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in the 1st NED International Textile Conference on Research, Innovation and advancement held on March 13, 2014 at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in The Third International Conference on Advanced Composite Materials and Technologies for Aerospace Applications held on May 13-16, 2013 at Glyndwr University, Wrexham, North Wales, UK.

Organiser International Textile Conference

- Participated as a Member Organizing Committee of the 5th NED International Textile Conference 2022 held on November 16-17, 2022.
- Participated as a Member Organizing Committee of the 4th NED International Textile Conference 2020 held on March 2 – 3, 2020.
- Participated as a Member Organizing Committee of the 3rd NED International Textile Conference 2018 held on January 10 – 11, 2018.
- Participated as a Member Organizing Committee of the 2nd NED International Textile Conference 2016 held on February 17-18, 2016.
- Participated as a Member Organizing Committee of the 1st NED International Textile Conference 2014 held on March 13, 2014.

Notable Committees/Trainings

- Program Team member for the development of SAR BS Textile Science Program – 4th Cycle.
- Member Program Evaluation (PEV) / Expert of relevant discipline in PEC data base.
- Assessment Team Member for Self-Assessment (Cycle-II) of Bachelor of Science in Textile Engineering (Garment Manufacturing) program of National Textile University, Karachi Campus.
- Nominated as a member of “EPE Curriculum & Expert Committee for Textile Engineering” by PEC via Notification PEC/EPE/Curriculum/2017 dated 17th January 2017.
- Member “Fundraising and preparation of admission booklet” committee as per No. Dr (Estab) / (1003) Vol-VI/9020 dated 19-08-2016.
- Attended seminar on Textile Industry Management for Pakistan –I at China w.e.f. 14-09-2015 to 15-10-2015 via office order DR(Estab)/Pers. No. 1907/Vol-II/9672.
- Member, Course Revision Committee, Department of Textile Engineering, NED University of Engineering & Technology.
- Member Board of Studies, Department of Textile Engineering.
- Member Board of MME Faculty, Department of Textile Engineering.
- Member examination review committee (ERC) in the Department of Textile Engineering and in NED Academy.
- Nominated as a resource person for Conducting CPD activities for the year 2021 via Ref. No. DR(Estab)/(Pers. No. 1907)/1571 dated 24-02-2021.
- Nominated as member QEC assessment team for MEM (Manufacturing Management) and conducted an assessment on 14-4-2021.
- Coordinator & member, Internship Committee of BS and BE Textile Engineering Department
- Coordinator & member, FYP Committee of BE Textile Engineering Department
- Project Committee Convener of BS and BE Textile Engineering Department
- Member IGS Pakistan -NED Chapter
- Project Manager SMARTEX Erasmus

Recently attended workshops/training/seminars:

- International Seminar on SMARTEX held in Malaysia from 18-23 July 2022.
- Attended online training on “Entrepreneurship for Engineers” conducted by Pakistan Engineering Council dated 10-04-2021.
- Attended online training on “Self-Assessment Report” conducted by QEC-NEDUET dated 09-04-2021.

- Attended one-hour online session on “Evaluation” for Sindh Province Universities on 04-12-2020 conducted by Higher Education Commission Pakistan.
- Attended 4th NED International Textile Conference 2020 held on March 2 – 3, 2020.

HEC Approved PhD Supervisor

Via letter 1-107/HEC/HRD/E&T/2015/39(8)

PhD Research Supervisor

- Supervising PhD Scholar Engr. Shehroze Ali Baig for his work having titled “*Smart Textile Composites*”. The PhD work in process.
- Supervising PhD Scholar Engr. Sehrish Naveed for her work having titled “*To develop and investigate the effects of sustainable process for acid washing of denim products*”. The PhD work in process.
- Supervising PhD Scholar Ms. Ammara Ashraf for her work having titled “*Design, Fabrication and Computational Analysis of Textile Based Sensor for Measuring Electroencephalography (EEG) Signals*”. The PhD work in process.

Master’s Research Supervisor

Year 2021

Supervising Independent Study Project (ISP) for Textile Engineering master’s student having titled “*Characterization of machining parameters of reinforced composites*”.

Year 2020

Supervised Independent Study Project (ISP) for Textile Engineering master’s student having titled “*Lean Implementation and Performance Enhancement of Textile Weaving Unit*”.

Research Project Supervisor Final Year Projects

Worked as Project Supervisor Department of Textile Engineering for Final Year Engineering Design Projects.

Year 2023

- Development and characterization of bicycle helmet
- To estimate the sound transmitting properties of different fabric type
- Development and characterization of textile composite structure for composite
- Characterization of Lycra Breakage in Denim Washing
- High performance Textile based composite system for retrofitting applications
- Sustainable applications of Waste wrapper
- Development of Braided composite

Year 2022

- Development of a Simulated Model of a Stab Resistant Body Armor
- Characterization of effect of weaves on textile reinforced composites

- Development and Characterization of Automobile parts
- Characterization of Hempcrete
- Characterization of Lycra Breakage in Denim Washing

Year 2021

- Development of a Stab Resistant Body Armor
- Development of Cricketers Helmet
- Characterization of Synthetic fiber reinforced concrete
- Characterization of Natural fiber reinforced concrete
- Characterization of Lycra Breakage in Denim Washing

Year 2020

- Synthesis of shear thickening fluid to enhance cut and puncture properties of knitted material
- Characterization of natural fiber reinforced concrete
- Modification and characterization of stab resistant body armour
- Characterization of synthetic fiber reinforced concrete
- Modification of impact testing assembly for cricketer's helmet

Year 2019

- Manufacturing and characterization of cricketer's helmet
- Utilization of denim mill waste for construction materials
- Development and characterization of stab resistant body armour

Year 2018

- Manufacturing and analysis of nanofiber composite structures
- Manufacturing and analysis of multi-layered woven fabric for stab resistance
- Simulation and development of textile-based helmets for civil applications

Year 2017

- Development and simulations of multilayer fabric and composite structures for industrial applications.
- Development of helmet shells for industrial applications.
- Manufacturing of an electro-conductive cotton textiles using graphene.

Year 2016

- Optimisation of the thermally insulated composite materials.
- To design absorbency measuring device in sizing material and integrate it with machine standard operations.
- Industrial belts for loading applications.

Year 2015

- Designing, development and analysis of cotton composite structures for thermal insulations.
- Designing, development and comparative analysis of different varieties of belts for industrial applications.
- To manufacture and characterize fibre glass Kapok hybrid composite.

Year 2014

- Development of col resistant glove.
- To design a system which reduces the cropping percentage during stages of manufacturing of towels (weaving and wet processing)
- To study, manufacturing and analysis of woven composites.

- To study, manufacture and analyse Kapok fibre composites.

Year 2013

- Manufacturing and evaluation of cotton based composite structures
- To design a puncture resistant glove
- Modifying ring spinning machine of yarn manufacturing laboratory for the production of slub and siro yarns.
- To investigate the possibilities of producing yarn nonwoven fabrics from cotton silk fibre.

Year 2012

- Design of an ETP plant using ultra filtration membrane.

Honours

Best Teacher Award

- In recognition of imparting knowledge, and expertise and demonstrating a sincere interest in developing the technical skills of his students, the NED Alumni Association of Southern California, USA, and NED University of Engineering & Technology, Pakistan awarded “Best Teacher Award 2020” in 2022.

Best Research Paper Award

- Received letter of commendation and cash prize from the NED Alumni Association of Southern California in 2016 for the category of Associate Professor.
- Received letter of commendation and cash prize from the NED Alumni Association of Southern California in 2015 for the category of Associate Professor.
- Received letter of commendation and cash prize from the NED Alumni Association of Southern California in 2014 for the category of Associate Professor.

Keynote speaker and Session Chair

- Co-Session Chair at the 5th International Conference organized by the Textile Engineering Department NED University of Engineering & Technology held on November 16-17, 2022.
- Keynote speaker at 1st International Conference on Advance material and Processing organized by Mehran University dates February 28 – March 02, 2017, at Mehran University Jamshoro.
- Session Chair in 1st International Conference on Advance material and Processing organized by Mehran University of Engineering & Technology dates February 28 – March 02, 2017, at Mehran University of Engineering & Technology Jamshoro.

Gold Medal

- 1st Position in Master of Business Administration, Preston Institute of Management, Science & Technology, 2003.

3rd Prize Textiles and Paper

- Awarded 3rd best poster in the Textiles and Paper category, Materials Post-Graduate Conference, Renold Building, The University of Manchester, UK. May 2009.

High Profile Star

- Attended Chiniot Islamia Public School's Silver Jubilee Annual function, as a High-Profile Star of Chiniot Islamia Public School. News and article published in The Daily Dawn, February 11, 2012.

Scholarship for pursuing PhD degree

- Scholarship amounting Rs. 10.163 million was awarded for pursuing PhD degree at University of Manchester, UK. January 2008.

Scholarship for MBA

- Scholarship was awarded for the MBA degree at Artistic Denim Mills. June 2001.

Member Pakistan Engineering Council

- Life-time membership as Professional Engineer, Pakistan Engineering Council since November 2001.

Member Textile Institute UK

- Member Textile Institute UK since 2009

NED University Alumni Network (NEDAN)

- Member NEDAN since 2006

Your Manchester Online

- Member Manchester University Alumni since 2012

Experience

Co-Chairperson (BPS-21) Textile Engineering Department

The regular Period is from January 20, 2022 till today.

- All the responsibilities assigned by the NED University of Engineering & Technology as Co-Chairman of the Textile Engineering Department.

Professor (BPS-21) at the University of Engineering & Technology

The regular period is from January 11, 2022 – till today.

- During said period involved as Subject Teacher in the following theory courses:

Masters (Evening Programme)

- Accounting and Financial Management (EM-502) in the year 2022.
- Research Methodology (TS-556) in the year 2022.

Bachelor (Morning Programme)

- Advance Fabric Manufacturing Mechanisms (TE-462) in the year 2022.
- Weaving Mechanism (TS-343) in the year 2022.
- Textile Production Management (TE-406) in the year 2022.

- Involved as a Practical Teacher in the following courses.

- Advance Fabric Manufacturing Mechanisms (TE-462) in the year 2022.
- Weaving Mechanism (TS-343) in the year 2022.

Administrative Responsibilities

- Director General “NED Academy” in the year 2022.
- Director ‘Centre for Continuing Engineering Education’ (CCEE) in the year 2022.

Director General NED Academy (BPS-21) at NED Academy, NED University of Engineering & Technology

Working as “Director General Academy” via syndicate resolution. The regular period is from December 22, 2022 – till today.

Key Responsibilities as Director General Academy (DG Academy)

- Approving launching of courses, signing Memorandum of Understanding, Annual Confidential Report of CCEE, and other initiatives under NED Academy.
- Strategizing the operations and endeavors of NED Academy and all its sub-parts.
- Expanding the horizon of NED Academy by enhancing new initiatives directed towards Continuing Education of Engineering and Professionals, supplementary education to undergraduate and postgraduate students, tertiary education to diploma holders and other related professionals to enhance their skills, and such other initiatives deemed appropriate by the University.
- Liaising with academia and industry to identify new market-oriented and need-based programs to be launched.
- Looking after all administrative, financial, and other matters related to NED Academy and all its sub-parts.
- Liaising with University Administration on matters of mutual concern as well as other necessary approvals from the University Administration.
- Any other duty as assigned by the authorities from time to time.

Director CCEE (BPS-21) at Centre for Continuing Engineering Education, NED University of Engineering & Technology

Regular period is from October 14, 2016 – till today.

Key Responsibilities as Director CCEE

- Signing & award certificates to participants of all courses in Certificate Award Ceremony.
- To facilitate in preparing MoUs, collaboration with various organizations / bodies / trainers.
- To get short courses designed through experts / faculty members plus vetting (course trainer) through concerned Chairperson of the Department and then approval from DG Academy to offer / course launch.
- To course market and organize short certificate courses in Engineering, IT and Management at appropriate venue of University, to enable professionals to keep pace with current developments. To attend & arrange Orientation & Certificate Award Ceremony of course(s).
- Facilitate Printing of CCEE Letter Head, Envelopes, Folders, Receipt Books, Vouchers, Certificates and other related material from local printer.
- Liaison with Departments / Directorate of Services / Registrar, DF and RA office.
- To sign indent for purchasing checking specification / quantities etc. of the equipment / and furniture for CCEE plus liaison with Director (Planning & Projects) and ADF (P).

- Use of existing University facilities for CCEE's trainings. In addition, experts from other Universities or Industries can be engaged as instructional staff.
- To periodically check / get audited, consumable / Dead Stock register & Imprest / requisition book.
- Announcement of Results: PGCC (preparation of grade sheets, Certificates & getting transfer of credit hours by CoE).
- To all round administer CCEE's smooth running, assigning work load to staff, signing ACRs of CCEE officers & annual report of employees and forward to University authorities. Checking of all payment, receipt, Journal bills, costing reports and signing Cash book reconciled.
- Administrator for Marketing Activity.
- Correspondence with companies HR officer nominating their staff for CCEE short courses.
- Income & expenditure Statements of Short Courses, PIQC course, PGC courses & B.Tech. Conversion courses consolidated, for necessary onward approval.
- To initiate new course relevant to the industry needs.
- To expand the horizon of CCEE with reference to outreach as well as indulgences of NED faculty as instructors in CCEE courses.
- To develop, maintain and upgrade a comprehensive & segregated database of industry professionals and organizations as prospective participants in CCEE courses. The database could be developed and maintained / upgraded with support of ITM and other support staff.
- To develop, maintain & upgrade a strong marketing system at CCEE including soft marketing, hard marketing, social media marketing etc. The system could be developed and maintained / upgraded with support of ITM and other support staff.
- To facilitate DG in enhancing on new institutions under CCEE in area where CCEE has to improve its footprint e.g., online courses, courses tailored to particular breed of engineers, certification courses and diploma courses etc.
- To liaison with collaborating organizations / bodies with w.r.t. providing support services as per MOU as well as following up with them w.r.t.
 - i) Smooth initiative of courses
 - ii) Smooth conductance of courses
 - iii) Obtaining courses feedback
 - iv) Closing out courses
 - v) Resolving any issue with the collaborator.
 - vi) Ensuring course quality.

Associate Professor (BPS-20) at NED University of Engineering & Technology

Adhoc period was from May 10, 2012 – March 1, 2018.

Regular period is from March 2, 2018 – January 10, 2022.

Teaching Responsibilities

- During said period involved as Subject Teacher in following theory courses:

Masters (Evening Programme)

- Accounting and Financial Management (EM-502) in the years 2021, 2020, 2019 & 2015.
- Textile Brand Management and Marketing (TE-553) in the year 2018.
- Research Methodology (TS-556) in the year 2017.
- Textile Brand Management and Marketing (TE-553) in the year 2014.
- Textile Quality Assurance (TE-501) in the year 2013.

Bachelor (Morning Programme)

- Advance Fabric Manufacturing Mechanisms (TE-462) in the years 2020 & 2016.
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402) in the years 2018, 2014, 2013 & 2012.
- High Performance Fibres (TS-207) in the year 2016.
- Introduction to Textile (TS-109) in the year 2019.
- Introduction to Textile Engineering (TE-103) in the years 2017, 2016, 2015, 2014 & 2013.
- Introduction to Textile Engineering (TE-113) in the years 2020 & 2018.
- Machine Design (ME-305) in the year 2014 in the year 2012.
- Material Science (TE-208) in the years 2019, 2018, 2017, 2016, 2015, 2014 & 2012.
- Quality Control in Textiles (TE-406) in the year 2012.
- Technical Textiles (TS-470) in the year 2018.
- Textile Production Management (TE-406) in the years 2021, 2019, 2017, 2012.
- Weaving Mechanism (TS-343) in the years 2020, 2019, 2018 & 2017.

• Involved as Practical Teacher in following courses.

- Advance Fabric Manufacturing Mechanisms (TE-462) in the years 2020 & 2016.
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402) in the years 2018, 2014, 2013 & 2012.
- Introduction to Textile Engineering (TE-103) in the years 2017, 2016, 2015, 2014 & 2013.
- Material Science (TE-208) in the years 2019, 2018, 2017, 2016, 2015, 2014 & 2012.
- Weaving Mechanism (TS-343) in the years 2020, 2019, 2018 & 2017.

Administrative Responsibilities

- Ag. Director 'Centre for Continuing Engineering Education' (CCEE) in the years 2021, 2020, 2019, 2018, 2017 & 2016.
- Ad. Director General Academy in the year 2022, 2021, 2019, 2018 & 2017.
- Class Advisor – First Year Textile Engineering (Spring Semester) in the years 2017, 2016, 2015, 2014 & 2013.
- Class Advisor – Second Year Textile Engineering (Fall Semester) in the years 2018, 2017, 2016, 2015, 2014 & 2013.
- Class Advisor – First Year Textile Science (Spring Semester) in the year 2020.
- Class Advisor – Second Year Textile Science (Spring Semester) in the year 2019.
- Examiner for NED Independent study project in the years 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013 & 2012.
- Final year Textile Engineering Projects Supervisor in the years 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013 & 2012.
- In-charge - Store & TIPC NEDUET in the year 2012.
- In-charge Dyeing & Finishing Laboratory in the year 2015.
- In-charge Fabric Manufacturing Laboratory in the years 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014 & 2013.
- Invigilator and Examiner during examinations in the years 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013 & 2012.
- Member Charter Inspection & Evaluation Committee, Education Department Government of Sindh in the year 2012 & 2014
- Member Curriculum Revision Committee in the years 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013 & 2012.
- Member Examination Review Committee for Department of Textile Engineering & NED Academy in the years 2021 & 2020.
- Member Final Year Project Committee in Department of Textile Engineering in the year 2013 & 2014

- Member Internship Committee in Department of Textile Engineering in the year 2013
- Member Organising committee of ITCNED conferences in the years 2014, 2016, 2018 & 2020.

Director General NED Academy (BPS-20) at NED Academy, NED University of Engineering & Technology

From 18-08-2022 till 23-08-2022, 30-11-2021, 08-05-2021 till 28-05-2021, 26-04-2021 till 07-05-2021, 12-04-2021 till 25-04-2021, 28-06-2019 till 03-07-2019, 11-01-2019 till 18-01-2019, 22-11-2018 till 30-11-2018, 06-11-2017 till 10-11-2017 & 10-05-2012 till 01-03-2018 worked as Director General NED- Academy.

Key Responsibilities as Director General Academy (DG Academy)

- Approve launching of courses, signing MOU, ACRs of CCEE & other initiatives under NED Academy.
- To expand the horizon of NED Academy by enhancing new initiatives directed towards Continuing Education of Engineering & Professionals, supplementary education to undergraduate & postgraduate students, tertiary education to diploma holders and other related professionals to enhance their skills, and such other initiatives deemed appropriate by the University.
- To oversee all matters related to NED Academy and all its sub-parts.
- To approve all matters pertaining to NED Academy and all its sub-parts.
- To strategize the operations and endeavors of NED Academy and all its sub-parts.
- To liaison with University Administration on matters of mutual concern as well as other necessary approvals for University Administration.

Director CCEE (BPS-20) at Centre for Continuing Engineering Education, NED University of Engineering & Technology

The regular period is from October 14, 2016 – till today.

Key Responsibilities as Director CCEE

- Signing & award certificates to participants of all courses in the Certificate Award Ceremony.
- To facilitate in preparing MoUs, collaboration with various organizations/bodies/trainers.
- To get short courses designed through experts/faculty members plus vetting (course trainer) through the concerned Chairperson of the Department and then approval from DG Academy to offer / course launch.
- To course market and organize short certificate courses in Engineering, IT, and Management at the appropriate venue of the University, to enable professionals to keep pace with current developments. To attend & arrange Orientation & Certificate Award Ceremony of course(s).
- Facilitate Printing of CCEE Letter Head, Envelopes, Folders, Receipt Books, Vouchers, Certificates, and other related materials from local printers.
- Liaison with Departments / Directorate of Services / Registrar, DF and RA office.
- To sign indent for purchasing checking specification/quantities etc. of the equipment / and furniture for CCEE plus liaison with Director (Planning & Projects) and ADF (P).
- Use of existing University facilities for CCEE's training. In addition, experts from other Universities or Industries can be engaged as instructional staff.

- To periodically check/get audited, consumable / Dead Stock register & Imprest/requisition book.
- Announcement of Results: PGCC (preparation of grade sheets, Certificates & getting transfer of credit hours by CoE).
- To all round administer CCEE's smooth running, assigning workload to staff, signing ACR of CCEE officers & annual report of employees and forward to University authorities. Checking of all payment, receipt, Journal bills, costing reports and signing Cash book reconciled.
- Administrator for Marketing Activity.
- Correspondence with companies HR officer nominating their staff for CCEE short courses.
- Income & expenditure Statements of Short Courses, PIQC course, PGC courses & B.Tech. Conversion courses consolidated, for necessary onward approval.
- To initiate new course relevant to the industry needs.
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- To develop, maintain & upgrade a strong marketing system at CCEE including soft marketing, hard marketing, social media marketing etc. The system could be developed and maintained / upgraded with support of ITM and other support staff.
- To facilitate DG in enhancing on new institutions under CCEE in area where CCEE has to improve its footprint e.g., online courses, courses tailored to particular breed of engineers, certification courses and diploma courses etc.
- To liaison with collaborating organizations / bodies with w.r.t. providing support services as per MOU as well as following up with them w.r.t.
 - vii) Smooth initiative of courses
 - viii) Smooth conductance of courses
 - ix) Obtaining courses feedback
 - x) Closing out courses
 - xi) Resolving any issue with the collaborator.
 - xii) Ensuring course quality.

Assistant Professor (BPS-18) at NED University of Engineering & Technology

December 2006 – May 2012

- From March 2008 to February 2012 was on study leave for PhD degree.

Teaching Responsibility

Year 2007

- During the remaining period involved as Subject Teacher in following theory course
– Textile Fabric Manufacturing Processes (TE-302)
- Involved as Practical Teacher in following course
– Textile Fabric Manufacturing Processes (TE-302)

Administrative Responsibilities

January 2007- March 2008

- Class Advisor – Third Year Textile Engineering
- Member Final Year Project Committee

- In-charge Fabric Manufacturing Laboratory
- Nominee from Textile Engineering Department for attesting PEC registration forms
- Nominee from Textile Engineering Department for monitoring students during co-curricular activities
- Invigilator and Examiner during examinations

Assistant Professor (BPS-18) at NED University of Engineering & Technology

November 2006 - December 2006

- Involved in making lectures for course TE-302 which were delivered in 2007.
- Invigilator and Examiner during examinations

Production Manager at X-pertex Denim

August 2006 - November 2006

- Involved with the planning, coordination and control of manufacturing processes.
- Ensures that goods and services are produced efficiently.
- Ensure the correct amount is produced at the right cost and at the right level of quality.
- Responsible for both human and material resources.

Key responsibilities involve:

- Overseeing the production process, drawing up a production schedule
- Ensuring that the production is cost effective
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Estimating costs and setting the quality standards
- Monitoring the production processes and adjusting schedules as needed
- Responsible for the selection and maintenance of equipment
- Monitoring product standards and implementing quality-control programmes
- Liaising among different departments
- Working with managers to implement the company's policies and goals
- Ensuring that health and safety guidelines are followed
- Supervising and motivating a team of workers
- Reviewing the performance of subordinates
- Identifying training needs

The roles tend to be more closely integrated with other functions, such as marketing, sales and finance.

Manager Operations & Administrator at S. M. Traders (Denim Unit)

March 2006 - August 2006

Key responsibilities involve:

- Oversees the daily sales and Operations of the Plant
- Hire train and evaluate core teams in the business
- Oversee the plants procedures and policies
- Set and maintain productivity and quality standards
- Distribute daily workloads to the plant Managers

- Work with sales to determine Pricing
- Ensure Customer excellence and delivery of Quality products
- Oversee inventory in the plant, Purchasing, and Finance
- Materials Management departments, and manage Vendor relations

Production Manager at Rajby Textile (Pvt) Ltd. (Denim Unit)

April 2005 - March 2006

Key responsibilities involve:

- Overseeing the production process, drawing up a production schedule
- Ensuring that the production is cost effective
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Estimating costs and setting the quality standards
- Monitoring the production processes and adjusting schedules as needed
- Responsible for the selection and maintenance of equipment
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments
- Working with managers to implement the company's policies and goals

Production Coordinator at Naveena Exports (Pvt) Ltd. (Denim Unit)

September 2004 - April 2005

Key responsibilities involve:

- Involved with the planning, coordination and control of manufacturing processes
- Ensures that goods and services are produced efficiently
- Overseeing the production process, drawing up a production schedule
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Monitoring the production processes and adjusting schedules as needed
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments

Assistant Manager Exports at Mekotex (Pvt) Ltd. (Denim Unit)

January 2003 - September 2004

Key responsibilities involve:

- Explore different ways to improvise and increase the sales of the existing products.
- Able to create, develop and implement different strategies to market the new products of the organization in a strong manner
- Study the services and products of the competitors and develop strategies to get an upper hand.
- Execute different marketing campaigns to promote the products of the organization online or through advertisements
- Directs foreign sales and service outlets of an organization: Negotiates contracts with foreign sales and distribution centers
- Directs conversion of products standards and specifications to ensure efficient operation under foreign conditions.

- Arranges shipping details, such as export licenses, customs declarations, and packing, shipping, and routing of product.
- Expedites import-export arrangements and maintains current information on import-export tariffs, licenses, and restrictions.

Production Coordinator / Export Marketing Executive at Artistic Denim Mills

January 2001 - January 2003

Key responsibilities involve:

- Involved with the planning, coordination and control of manufacturing processes.
- Overseeing the production process, drawing up a production schedule
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Monitoring the production processes and adjusting schedules as needed
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments
- Explore different ways to improvise and increase the sales of the existing products thereby ensuring that the marketing goals are achieved as designed by the company
- Directs clerical staff in expediting export correspondence, bid requests, and credit collections
- Arranges shipping details, such as export licenses, customs declarations, and packing, shipping, and routing of product.
- Expedites import-export arrangements and maintains current information on import-export tariffs, licenses, and restrictions.

Trainee at Moon Light Industries

August 1999 - August 1999

Monitor and enhance the understanding for wet processing of woven fabric.

Trainee at Pak-Denim Limited

June 1999 - July 1999

Monitor and enhance the understanding for Denim manufacturing processes.

Volunteer Experience

1999

Engineering Student at NED University of Engineering & Technology, Karachi. Involvement in the installation and commissioning of machines in the Textile Weaving Laboratory.

Certifications / Training

Entrepreneurship for Engineers by PEC

April - 2021

Self-Assessment Report by QEC NEDUET

April - 2021

Evaluation for Sindh Province Universities by HEC

December 2020

4th NED International Textile Conference NEDITC 2020

March - 2020

Lectures on “Textile Product Evaluation” in COD

April – May 2019

AATCC International Conference

March 2018

3rd Internationals Textile Conference NEDITC 2018

Organised February 2018

Emerging Trends in Knitting

February 2018

Exploring new world in space by SUPARCO

October 2017

1st International Conference on Advance Material and Processing

March 2017

2nd All Pakistan Dice Textile Innovation Event by NTU

March 2017

Technical Computing with MATLAB by QEC NEDUET

September 2016

Entrepreneurship Educators Symposium 2016 by IBA

March 2016

2nd Internationals Textile Conference NEDITC 2016

Organised February 2016

2nd Internationals Textile Conference NEDITC 2016

Participated February 2016

HEC Indigenous On Campus Training of Project Management

November 2015

Seminar on Textile Industry Management for Pakistan –I at China

October 2015

Developing Industry Driven Technology By ORIC NEDUET

January 2015

Technical Computing with MATLAB by QEC NEDUET

December 2014

Technology for teaching and learning by QEC NEDUET

June 2014

First Internationals Textile Conference NEDITC 2014

March 2014

I.T. Tools for academic Profession

September 2013

Duties and responsibilities on Invigilator and Examiner

Examiner February 2013

Duties and Responsibilities of Class Advisors

January 2013

Library Facilities

February 2012

Effective Teaching Practice

April 2012

Auditing To ISO 9000 - System.9000 License ADML/Aud.9000

February 2002

Integrated Management System - Quality Consulting Services License IMS-001

2000

YX Weave Platinum Jacquard Module -Yxendis

February 2007

Graduate Assessment Test - National Testing Service

January 2007

International English Language Testing System British Council License PK010

November 2007

Intermediate Level Course in Communicative English - Department of Humanities NEDUET

April 1998

Management in Practice - AMSPAR approved event License Manchester - 100010743

June 2009

Skills & Expertise

Research

Product Development

Analysis

Project Planning

Product Management

Management Consulting

Software Development

Teaching

Team Leadership Problem Solving

Consultancy
Marketing Research
Marketing Management
Event Planning
Training & Development
Finite Element Analysis

Languages

English (Full professional proficiency)
Urdu (Full professional proficiency)
Sindhi (Limited working proficiency)
Punjabi (Limited working proficiency)
German (Elementary proficiency)

Personal Details

NICOP No. 42501-4761900-5
Birthday May 21, 1978
Marital Status Married
Citizenship Pakistan

Advice for Contacting

Prof. Dr. Bilal Zahid
Director General NED Academy
Professor & Co-Chairperson, Department of Textile Engineering
Director 'Centre for Continuing Engineering Education' (CCEE), NED Academy
Project Manager (Erasmus+ program - SMARTEX)

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