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**FDDI**

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WEEKLY NEWSLETTER



## FDDI Officials visit Tomas Bata University, Zlin, Czech Republic

Colonel Pankaj Kumar Sinha, Managing Director (MD) – FDDI visited the Tomas Bata University (TBU) in Zlin, Czech Republic from 10<sup>th</sup> to 12<sup>th</sup> June 2024 and meet Mr. Petr Sába, Director of the Footwear Research Centre (FRC) at TBU who invited him.



Presentation about TBU and FDDI

The other member of the delegation from FDDI were Mr. Deepak Choudhary, Sr. Faculty, School of Footwear Design & Production (FDP) and Mr. PSA Deepak, Assistant Manager.

The purpose of the visit of the delegation was to get a deep insight into the advanced research, technological capabilities, and innovative educational approaches at TBU.

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MD-FDDI at Tomas Bata Villa



Delegation at TBU- Museum

During their visit, detailed meetings were held featuring university officials, including Assoc. Prof. Milan Adámek, Rector, and doc. Ing. Marek Kubalčík, Vice Rector of the University. They provided an insightful presentation about TBU.





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MD-FDDI also presented a brief introduction to FDDI during these sessions, attended by Deputy Ambassador Mr. Abhijit Chakraborty from the Embassy of India in Prague.



Exhibits at Shoemaking Museum -TBU



Meeting in progress between MD-FDDI and Mr. Radim Holíš, Governor

The delegation was guided on a tour of Tomas Bata's Villa by Ms. Gabriela Knocitikova, who shared historical and cultural insights about the Villa. They also visited the Shoemaking Museum, renowned for its extensive collection spanning over a thousand exhibits and illuminates the legacy of the Baťa company (1884–1945).



FDDI delegation at TIC

Meetings were conducted with Mr. Radim Holíš, the Zlin Governor, and Mr. Jiří Korec, the Zlin Mayor, at their respective offices that focused on strengthening academic collaborations, promoting joint research and development initiatives, and bolstering support for the footwear industry. Additionally, the potential for facilitating international student placements and exchanges were explored during these productive sessions.

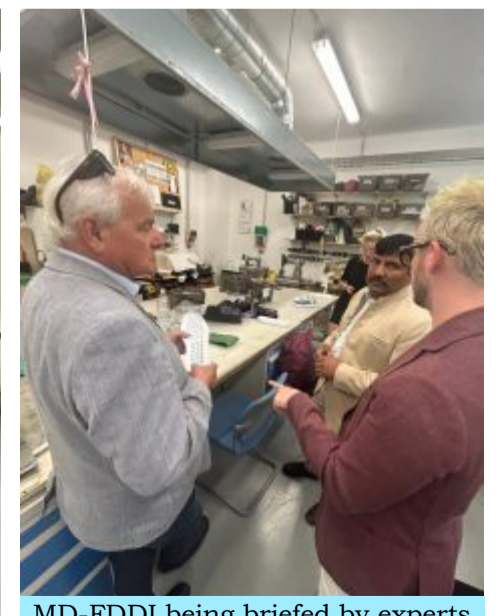
The delegation visited FRC, Centre of Polymer Systems (CPS), Faculty of Multimedia Communications (FMC) Technology Innovation Centre (TIC).

Research at CPS focuses on areas such as plastics and rubber processing, nanomaterials, biodegradable polymers, antimicrobial modifications, magneto/electroactive systems, coatings, polymer electronics, sensors, and biomaterials for medical applications. During the discussions, the MD - FDDI also briefed the attendees on India's New Education Policy and how a collaborative Ph.D. program could be implemented at FDDI in partnership with TBU.

At FMC, the delegation explored the Shoe Design Studio and Fashion Design Studio and met with the faculty members, showcasing the university's creative and innovative efforts. At TIC, the officials of TBU briefed the delegation on the latest technological advancements.



MD-FDDI at CPS



MD-FDDI being briefed by experts at FMC





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### Hon'ble Justice - Rajasthan High Court visits FDDI, Jodhpur Campus

Mr. Madan Gopal Vyas, Hon'ble Justice of the Rajasthan High Court, Jodhpur visited FDDI, Jodhpur Campus on 18<sup>th</sup> June 2024.

He was greeted by Mr. Anil Kumar, AFHQCS, Executive Director (ED), FDDI, Jodhpur Campus who briefed him about the specialized programs and industry collaborations of FDDI which not only imparts essential skills and knowledge, but also addresses specific needs within the footwear, fashion, and leather industries.

He explained that by focusing on special purpose footwear and support for orthotics and prosthetics, FDDI plays a pivotal role in enhancing safety, occupational health, and quality of life for individuals requiring these specialized products.



Mr. Madan Gopal Vyas, Hon'ble Justice of the Rajasthan High Court at CoE of FDDI-Jodhpur



Hon'ble Justice at the Pilot Plant

Hon'ble Justice visited the entire campus and also saw the 'Centre of Excellence' established in the campus. He appreciated the efforts taken by FDDI, Jodhpur in bridging the skill gap in the areas of Footwear, Fashion, Leather Accessory design and also for carrying out research and innovation.

### Faculty 'Psychometric Assessment Session' conducted at FDDI, Noida

To measure the cognitive abilities, personality traits, motivation, values, aspirations, key behavioural competencies and teaching skills of the Faculties of School of Retail and Fashion Merchandise (RFM), a 'Psychometric Assessment Session' was conducted on 18<sup>th</sup> June 2024 at FDDI, Noida.



Dr. Veenu Arora making presentation



A view of the session

The session was conducted by Dr. Veenu Arora - a specialist in the field of psychometric assessment who has conducted various training sessions empowering individuals to leverage their strengths, address weaknesses, and achieve personal and professional growth for their employability, entrepreneurship & Life Skills.

The interaction proved to be fruitful as faculties got to know their strengths and became aware of their learning styles.

This session added to the ability of teaching to deal with a diverse set of students and maintain harmonious relations with co-workers.





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## Research paper of Faculty of FDDI, Hyderabad Campus presented during Engineering Advances 2024: First International Conference

A research paper authored by Mr. K. Elayaraja and Mr. Loganathan T of the School of Footwear Design & Production (FDP) at FDDI's Hyderabad Campus has been presented online at the Engineering Advances 2024: First International Conference held from 12<sup>th</sup> to 14<sup>th</sup> June 2024.

This online conference was organized by Pravara Rural Engineering College, Loni, Ahmednagar, Maharashtra, India in association with Technology Research and Innovation Centre, India, Accra Technical University, Accra, Ghana and Academy of Nanotechnology and Waste Water Innovations, South Africa.

Mr. K. Elayaraja is having 26 years of experience in the leather and footwear industries. His extensive international exposure, including stints in China, Dubai, Hong Kong, and Vietnam, has enriched his global perspective. He is renowned for his expertise in hand-made and customized footwear and holds a patent for smart wearable technology. He has authored multiple research papers and book chapters on diverse topics, showcasing his profound knowledge and influence in the field.

Mr. Loganathan T, with over a decade of experience in the footwear and leather industries, is currently pursuing a Ph.D. in sport footwear. He has been honoured with prestigious awards and has published extensively on diverse topics, showcasing his innovative contributions to the field.

This research work delves into the Engineering advances in sports shoes have revolutionized athletic performance and comfort, shaping the



Mr. K. Elayaraja Sr.  
Faculty, FDP,  
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Mr. Loganathan T,  
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A view of PPT & Abstract page of the research paper authored by Mr. K. Elayaraja and Mr. Loganathan T



'Certificate of Paper Presentation'

landscape of sports footwear through a myriad of innovations. This research explores the transformative impact of engineering methodologies on sports shoe design, drawing insights from diverse disciplines including biomechanics, material science, manufacturing processes, design technologies, and performance evaluation methods. Through an examination of literature and case studies, this research elucidates pivotal findings that have propelled the optimization of athletic performance while prioritizing comfort and injury prevention. From the development of high-performance materials to the implementation of cutting-edge manufacturing techniques, engineers have continuously pushed the boundaries of sports shoe design to enhance user experience.



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Furthermore, this paper forecasts the future trajectory of sports footwear, envisioning a landscape characterized by heightened athletic prowess, reduced injury rates, and the emergence of trends such as smart footwear and eco-friendly materials. Central to this evolution is the ongoing collaboration between engineers, athletes, and manufacturers, highlighting the collective effort to craft sports shoes that epitomize efficiency, efficacy, and user-centricity. With each stride forward, engineering breakthroughs redefine the possibilities of athletic achievement, transforming sports shoes from mere equipment to indispensable partners in the pursuit of excellence. As technology continues to advance, the future promises even greater innovation, ushering in an era where sports shoes not only enhance performance but also contribute to the overall well-being of athletes and the environment.

The conference papers will be published in various journals indexed in Scopus, Crossref, and other reputable databases by Trans Tech Publications, Switzerland.

## Students and Faculties of UPID visits FDDI, Noida Campus

To have an insight and better understanding of footwear design, a group of students from the Uttar Pradesh Institute of Design (UPID) who were accompanied by their faculty visited FDDI, Noida Campus on 12<sup>th</sup> June 2024.



Expert of FDDI explaining to UPID students and faculty at Pilot Plant

They visited the Physical & Chemical Testing Laboratory, 3D Footwear labs, Pilot Plant and were briefed on the operation and functionality of the machines in these labs by the experts of FDDI.

They were briefed about the critical role of footwear design in integrating style, comfort, and support, highlighting its impact on health, performance, and fashion.

They had a meeting with Dr. Madhusudan Pal, Director CoE and Scientist “G” who explained them that by prioritizing ergonomic design, footwear can significantly enhance overall foot health and user satisfaction. He also briefed them about the internship opportunities and research facilities available at FDDI's CoEs.