

Newsletter

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Impact Unfolds: Project Advancements



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Reciprocation of Training on Additive Manufacturing: Towards Digital Manufacturing

Universiti Malaysia Perlis (UniMAP) has organized reciprocation of training on “Additive Manufacturing: Towards Digital Manufacturing Methods”. This insightful training session brought together staff and students eager to explore the cutting-edge world of additive manufacturing. Participants gained valuable knowledge and insights into digital manufacturing methods, a crucial skill in today's rapidly landscape. This successful training underscores our commitment to fostering innovation and equipping individuals with future-ready skills in advanced manufacturing technologies. This event was held on April 16th, 2025.

Design 1 Expo: Student Competition at UniMAP

Universiti Malaysia Perlis (UniMAP) organized its 2nd student competition project focused on Industry 4.0 on October 23rd, 2024. This competition actively encouraged students to engage with Industry 4.0 and digital manufacturing methodologies, providing a platform for them to showcase their innovative projects in this field. The event aims to foster creativity and problem-solving skills relevant to the evolving industrial landscape and inspire the next generation of innovators in this transformative domain.

CPD Course at UniMAP

Universiti Malaysia Perlis has organized CPD Course on “Rapid Product Development” on November 21st, 2024. This training equipped the participants with the principles of rapid product design including design thinking and agile methodologies



Industry 4.0 IoT Project Competition at Balochistan University of Engineering and Technology, Khuzdar

The Industry 4.0 IoT Project Competition hosted by Balochistan University of Engineering and Technology (BUET) brought together talented engineering students from across Balochistan's universities to showcase innovative solutions applying Internet of Things technologies to local challenges. This event was held on November 11th, 2024.

Funded through the European Union's regional development initiatives, this event represented a significant milestone in promoting technological advancement and educational collaboration in the province.

Teams represented the following institutions:

- Balochistan University of Engineering and Technology
- University of Balochistan
- Sardar Bahadur Khan Women's University
- Lasbela University of Agriculture, Water and Marine Sciences
- Balochistan University of Information Technology
- University of Turbat

The event featured a multi-stage evaluation process:

1. Initial screening of project proposals
2. Development phase with mentorship from industry experts
3. Final presentations with working prototypes
4. Judging by a panel of academic, industry, and project representative

Projects were addressing Balochistan's unique challenges:

- Smart irrigation systems for water conservation in drought-prone areas
- Remote monitoring solutions for livestock management
- Industrial automation systems for local manufacturing
- Healthcare monitoring devices for remote communities
- Renewable energy management systems
- Smart mining safety and efficiency solutions



Faculty Development Out-Reach Training Program at BUETK

GetInnovative4Impact team NEDUET in co-ordination with BUETK team organized a faculty development outreach training program on 12th November 2024 at BUETK. Two trainers from NEDUET, Karachi i.e, Dr. Tariq Jamil and Dr. Muhammad Wasif gave the trainings on “Big Data Analytics” and “Implementation of digital tools in Higher Education opportunities, challenges and ethical issues”, respectively. Faculty members from various departments and universities were invited to receive these training sessions. Moreover, faculty members were granted a CPD certificate for this training.



Procurement & Construction of Centre of Excellence



All consortium Higher Education Institutions (HEIs) have initiated the procurement and construction of Centers of Excellence and laboratories. The tendering process is underway, with completion expected within the next two months.

At NEDUET, the first round of procurement has been successfully completed, and the second round's consignment is slated to arrive within the same timeframe. Similarly, UETT, BUET, UniMAP, and UMPSA are making progress toward completing their procurement processes.

Faculty Development Training Program at NEDUET

GetInnovative4Impact team NEDUET organized the second round of the faculty development training program on “Technology Transformation Dissemination Session” which was a reciprocal of training obtained from Dublin City University, Ireland.

Forty faculty members from all departments of NEDUET were invited to receive these training sessions. Moreover, faculty members were granted a CPD certificate for this training.

This training was held from December 6th till December 11th, 2024.



Miscellaneous Dissemination Activities on Industry 4.0



Day 2 Programme – Saturday, 1 st February 2025	
Vendor Masterclass Session Chairs: Dr. Nigam Akhavan and Dr. Nigam Akhavan Speaker: Dr. YOOI Manoharan Title: Implementation of Digital Transformation Practices through the Capacity Building of Occupational and Industrial Hygienists in Pakistan and Malaysia Speaker: Dr. Pradeep Kumar Title: The Road and Digital Speaker: Dr. Chuanhua Miao Title: Learning in the age of AI: Navigating the perils	Session 1 (10:00 – 11:00) Vendor Room 2b Session Chairs: Dr. M. Dabbabshi and Dr. Nigam Akhavan Speaker: Dr. Nigam Akhavan (Chair) Title: Revolutionizing Risk Learning Through AI Speaker: Dr. Muhammad Ali Khan Title: Detection, analysis and forecasting of surgical glove contamination using machine learning Speaker: Dr. Nigam Akhavan (Chair) Title: Risks and their Mitigation Strategies in the Age of AI Speaker: Dr. Nigam Akhavan (Chair) Title: Networking and AI
Vendor Auditorium Session Chairs: Dr. Shafiqul Zaman and Dr. Ali Akhavan Speaker: Dr. S. Salim Al-Jarrah Title: The Role of Semiotic Construction of Knowledge in the Empirical Analysis of Safety-Related Events Speaker: Dr. S. Salim Al-Jarrah Title: Investigating the Impact of Pool Quantum Entanglement on Quantum Cryptography	Session 1 (11:00 – 12:00) Vendor Room 2b Session Chairs: Dr. Muhammad Ali Khan and Dr. Pradeep Kumar Speaker: Dr. Pradeep Kumar Title: A Hybrid Approach for Assessing Road Order Management and Safety Speaker: Dr. Muhammad Ali Khan Title: Privacy Preservation for Personal Data in the Age of AI: Challenges and Solutions

- Dr. Marialaura TOCCI was invited as a keynote speaker at International Conference on Computer Science. She delivered the progress of the project - GetInnovative4Impact emphasizing the needs of automation in mechanical and manufacturing engineering. The event was held on January 31st & February 1st, 2025.
- Team NEDUET and UETT were invited in a seminar on Industry 4.0 & process automation at NUST Islamabad. This event was organized by Engineering Development Board (EDB) particularly addressing the challenges for implementation of Industry 4.0 in academia and industry. The event was held February 11th, 2025
- Dr. Tariq Jamil was invited by Institute of Chartered Accountant Pakistan (ICAP) to deliver the plenary talk on “Exploring Societal Barriers to Innovation”. The event was held on February 24th, 2025.

Faculty Development Training Program at UET Taxila

The conceived trainings from Italy and Ireland are to be disseminated among other faculty members to the respective HEIs of the consortium. Team UET Taxila held comprehensive reciprocation of these trainings and 14 trainings have been conducted from November 2024 to February 2025.



CPD Courses at UET Taxila

Continuing professional development (CPD) courses were part of the project for the dissemination of knowledge related to Industry 4.0. UET Taxila organized CPD course on "Digital Twin Based Intelligent Supply Chain for Industry 4.0" in March 2025. Team UET Taxila organized the training in Hybrid mode where participants from UET Taxila, BUET, UNIMAP and UMPISA attended.



Milestone: Integration of new/modified course at UET Taxila

One of the major deliverables, 'Course design of new/modified courses for all undergraduate, master's, and PhD levels,' has been completed through the collaborative effort of consortium members. The scope of this deliverable included: (i) designing course topics for ten courses (five undergraduate, four master's, and one PhD level); (ii) developing detailed course contents; (iii) creating reading texts/case studies in PowerPoint slides; and (iv) identifying reference books. These contents are readily available on the project data repository.

Additionally, the related milestone 'Integration of new/modified courses in the curriculum' was successfully completed by UET Taxila. The newly designed/modified courses were approved through the Board of Studies and executive statutory bodies, ensuring seamless integration into the existing curriculum.



Faculty Development Training at UMPSA

The reciprocate and sharing session was conducted with faculty members. The session was based on the training which has been conducted in Italy in July 2024. The training was conducted on September 12th, 2024.



Progress of the Project

The project has reached its second year, with twenty-two of thirty-six deliverables completed. The team is working diligently to ensure timely completion.

Impact of the Project

The GetInnovative4Impact team continues way to revolutionize higher education in Pakistan & Malaysia. The consortium has jointly organized six competitions, two continuing professional development (CPD) workshops, two capacity-building training in Italy and Ireland, two international conferences, and five one-hour seminars impacted the more than twelve hundred undergraduates, postgraduate and industrial professionals, and faculty members.

The team is seeking to expand the circle of impact to more professionals and faculty members and is committed to revolutionizing higher education by implementing digitalization in education.

In case for further queries, please reach out us at info@getinnovative4impact.com

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Transformation of the Website's User Interface

Featuring the new look or user interface of the website of the project "GetInnovative4Impact" showcasing the latest news, mission & vision and partner HEIs. The new user interface offers a fresh design, enhanced navigation and improved user experience. Explore now at www.GetInnovative4Impact.com.

