



NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY (NUST), PAKISTAN

Islamabad | Rawalpindi | Karachi | Risalpur | Quetta

NUST AN EXPERIENTIAL LEARNING SPREAD



PUBLIC SECTOR UNIVERSITY **Estb. 1991**


 **20**
Institutions

 **07**
Campuses

 Accessibility
NATIONAL FOOTPRINT

 **07**
Disciplines

 **146**
Academic Programs

 **1,495**
Faculty Members

 **18,500**
Students

 **48,288**
Graduates

SDG Aligned

Innovation Focused

Collaboration Driven

NUST-QS WORLD RANKING 2023-24



#367
In World

#41

Top 50
Young
Universities

#94

Employer
Reputation

#160

in
Engineering

#140

In Electrical &
Electronic Engg

#148

In Comp Sc &
Information sys



MULTIDISCIPLINARY STRENGTH

Engineering

Information Technology

Applied Biosciences

Basic/Natural Sciences

Social Sciences & Humanities

Art, Design & Architecture

Management and Leadership Studies

Peace and Conflict Studies

Military Art and Science

NUST School of Health Sciences





4 NATIONAL CENTRES OF EXCELLENCE IN DISRUPTIVE TECHNOLOGIES

**NATIONAL CENTRE
FOR
ARTIFICIAL
INTELLIGENCE**

**NATIONAL CENTRE
FOR
ROBOTICS &
AUTOMATION**

**KEY LABS - NATIONAL
CENTRE FOR
BIG DATA &
CLOUD COMPUTING**

**KEY LABS - NATIONAL
CENTRE FOR
CYBER
SECURITY**

NUST INTELLECTUAL PROPERTY RIGHTS & TECH TRANSFER ECOSYSTEM

Intellectual Property Life-Cycle Management Ecosystem

Lead WIPO Partner in the region for promotion of IP Policies

FILED IPs: 1100+

AWARDED IPs: 208

Including international IPRs:

- ✓ 7 US
- ✓ 1 Korean
- ✓ 1 Patent Cooperation Treaty (PCT)

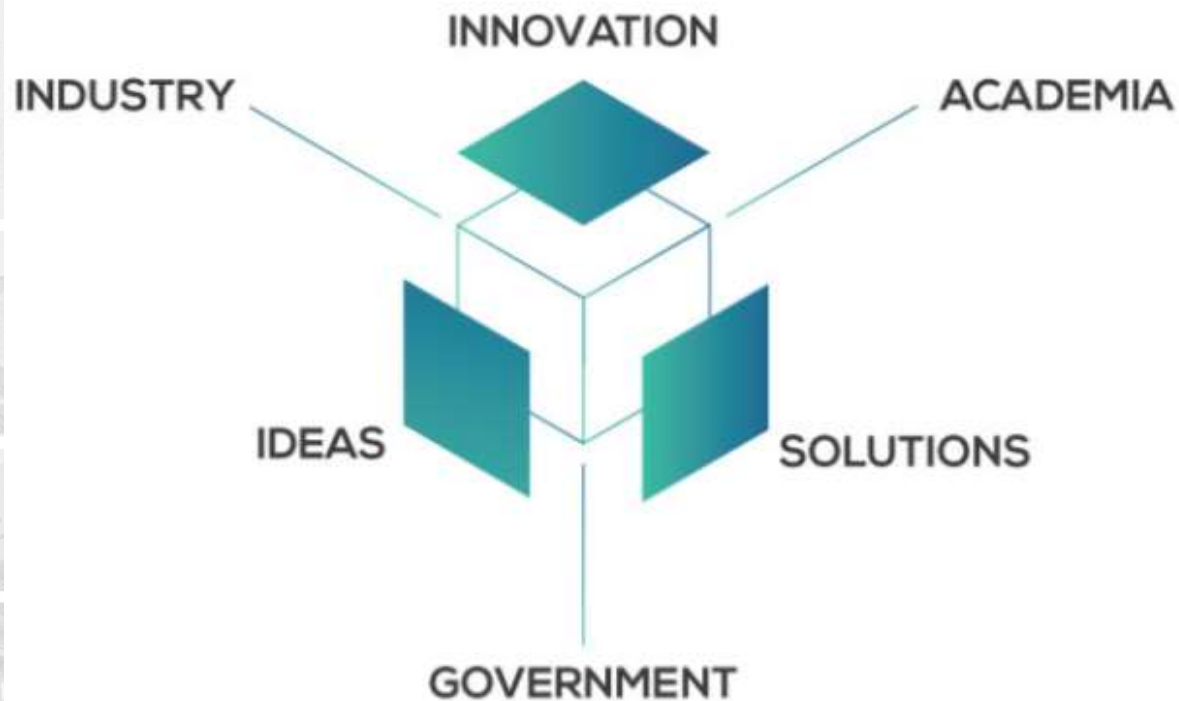
1st
PAKISTANI
UNIVERSITY

TO TRANSFER
TECHNOLOGY
TO INDUSTRY



COLLABORATION FRAMEWORK

Fourth Generation Triple-Helix - III Model of Engagement



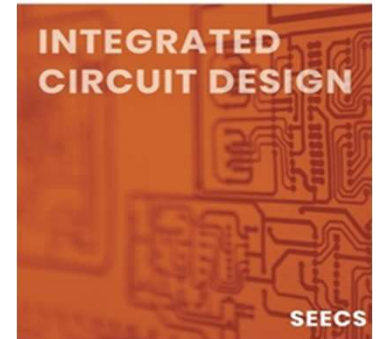


PAKISTAN'S 1st
INTERDISCIPLINARY
RESEARCH CLUSTER

**School of Interdisciplinary
Engineering & Sciences**

31 Hi-Tech Labs under One Roof

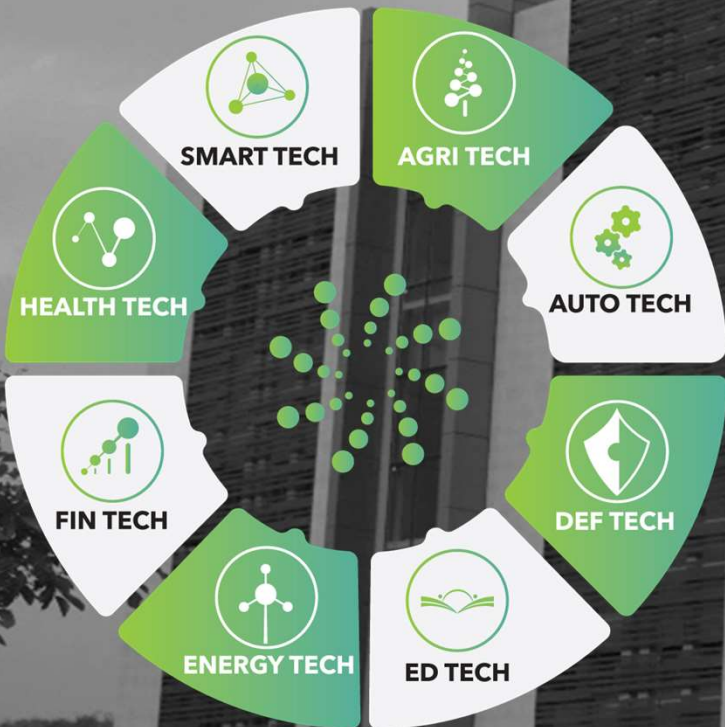
12 International Industrial Labs



NATIONAL SCIENCE & TECHNOLOGY PARK

Estb.
2019

Pakistan's First Science and Technology Park



- **114** Hi-tech companies on board –
 - ❖ **54** Anchor tenants and SMEs
 - ❖ **63** Startups
 - 25 MNCs from 11 Countries**

8 Thematic Sectors

High-tech Special Economic Zone (SEZ)

58 Acres of Land for Expansion

Recent Investments by International VCs



**Peter Thiel backs
PriceOye**

\$7.9M

PriceOye is Pakistan's largest e-commerce electronic marketplace that has raised funding from Peter Thiel who was the co-founder of PayPal.



**Adam Draper invests in
Orbit - Ed**

\$500,000

Orbit-Ed - a female-led startup working in the Ed-tech vertical that provides AR/VR training to corporates, has raised funding from Boost VC.

**VECTARA wins
\$20M in seed
funding**

*Largest funding raised
by NSTP Tenant*

The company uses the latest innovations in artificial intelligence and neural network technologies for natural language processing to deliver unparalleled search relevance and uncovers the Intent of the user search.

Minorities & Women Startups



National Science & Technology Park has also won

\$250,000 funding from **US Embassy** for

Training/Funding of Minorities & Women Startups

Hi-Tech Labs.



JAZZ 5G INNOVATION LAB



ARCELIK GLOBAL



TURKISH AEROSPACE



TUFIL GROUP



NUST TEAM



- Ms Sana Maqbool
- M.Phil. (Anthropology)
- Director ICON



- Mr Mohammad Ali Khan
- MBA (HR)
- General Manager – NUST Professional Development Centre
- Global Certification Expert with Human Certification Institute- USA
- MBTI & Global Certified HR Professional
- Certified Neurolinguistic Professional- American Board of NLP
- Behavior Trainer, Employability Coach

NUST TEAM



- **Dr Mohsin Tiwana**
- PhD (Biomedical Engineering)
- Professor
- Dept of Mechatronics (CEME)
- President Gold Medal For Innovation and Commercialization
- Winner - Prime Minister Discover Challenge



- **Dr Riaz Ahmed Mufti**
- PhD (Mechanical Engineering)
- Professor
- A Chartered Mechanical Engineer and a Consultant
- School of Mechanical & Manufacturing Engineering (SMME)
- Presidents' Pride of Performance, Government of Pakistan



- **Dr Inayat Ullah**
- PhD (Public Policy and Management)
- Asst Professor
- School of Social Sciences & Humanities (S3H)
- Innovative Policy Best Paper Award from the Asian Development Bank (ADB)

NUST- EKKO wins Better World Project 2023 Internationally

EKKO is a portable device that uses vibrational waves to treat neurological disorders based on **Neurotransmission Cognitive Theory**

2 Types

1. EKKO Portable
2. EKKO Clinical

Successfully commercialized to **RISETECH**, **75+ Families** used, more than **5500** therapeutic sessions done

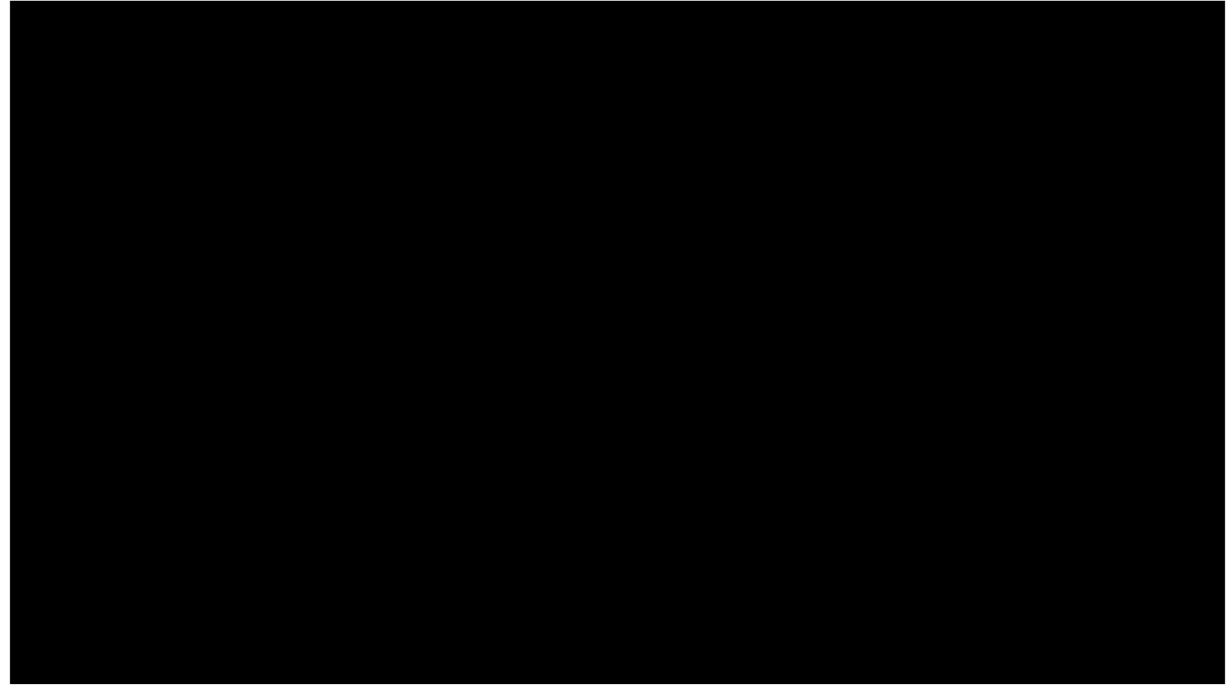
Success: 100%

Better World Project Award Winner, AUTM

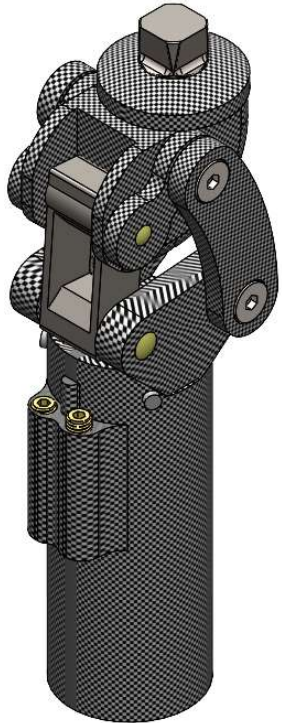


MyoBionics Prosthetic Gripper

- Lightweight and fully functional
- Can hold a circular object
- Soft finger pad
- User-friendly experience
- Natural skin appearance



Semi-Automation of Prosthetic Knee



Design and control a mechanism for the pneumatic knee joint, help the amputees assist in auto-adjustment of damping for movement of various ADLs i.e., walking, jogging, stair-up, stair-down.

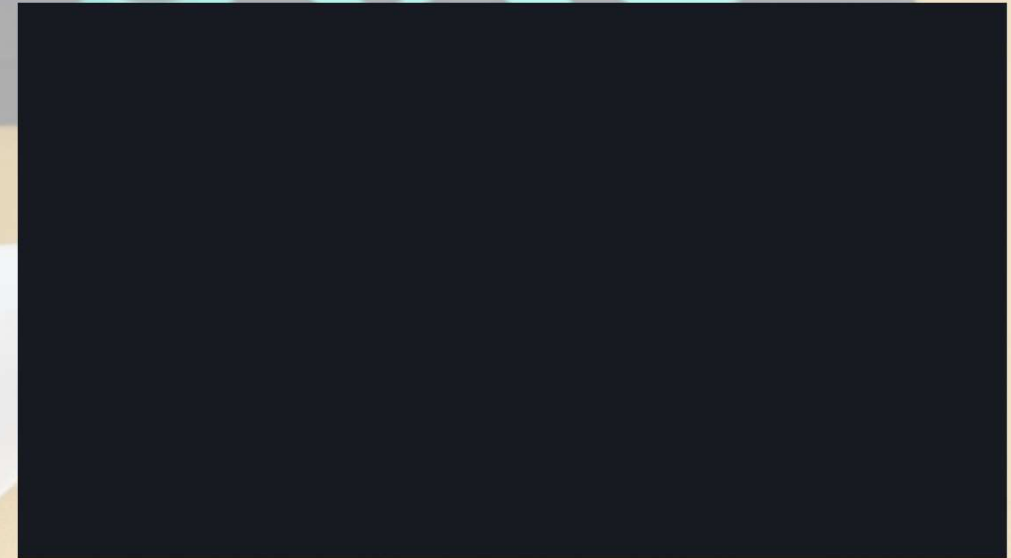
Digital Otoscope



A simple and fundamental tool for medical practitioners designed for visual examination of internal ear structure, typically having a light and a set of lenses.

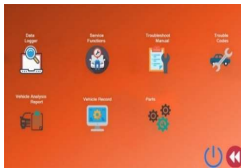
Customize Orthotic Insole

- Relieves chronic pain caused by plantar fasciitis.
- Correction of foot and leg pronation angles in flatfooted people.
- Provides stability for high arch foot profiles.
- Treatment for leg length discrepancy.

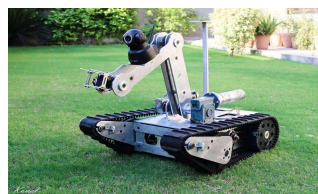


Land Rover Defender Jeep Test Bench

Unmanned Ground Vehicles



Land Rover Defender Jeep Test Bench is a Test Bench for our On-Board Diagnostics (OBD), is specifically designed for Defender Jeep, and is currently operational at 501 EME Workshop to give diagnostic reports for the vehicle.



Unmanned Ground Vehicles are configurable for various applications and can be tele-operated from a distance of 1 km.



NUST Expertise and Contributions- Industry-Related Policy-Making Process

**Project
Industry**

Solar Energy Policy Reform
Tara Climate Ltd

Project

National Tariff Policy:

Dr. Zafar Mehmood- a member of the National Tariff Commission, influencing key policy decisions.

Project

Tax Rationalization and Policy Recommendations:

Proactive engagement in recommending policy changes to alleviate tax burdens on industries.

Project

Estimating the Quantum of Illicit Trade in Pakistan

The Case of Tobacco Sector Calculated the tax evasion, evaluated the financial impact of FED policy change, identified the key challenges, and suggested policy advice to the government

NUST Expertise and Contributions- Industry-Related Policy-Making Process

Project	Tech-Based Monitoring Project: To enhance the effectiveness of technology penetration into the government public administration and proactive engagement in recommending policy changes to alleviate tax burdens on industries.
Project Industry	Sales Projections for Angro-Polymers Angro-Polymers and Chemicals Ltd
Project Industry	Improving quality of education SDGs Google and ministry of education
Project	Electric Motorcycle Feasibility Study, Sustainable Economic Policy Initiative (HEC) Health Cost of Newborn Diseases in Karachi (HEC)

PROFESSIONAL DEVELOPMENT & TRAININGS CENTER

Our Numbers Speak



WHAT WE OFFER



1. Training

1.1 INDUSTRY FOCUSED WORKSHOP



2. Management Consultancy

1.2 CUSTOMISED TRAININGS



3. Assessment Services

1.3 INTERNATIONAL CERTIFICATIONS

INDUSTRY FOCUSED- OPEN ENROLLMENT

Continuous Learning and Growth - Open Enrollments - Professional Development Programs



FOUR MONTHS DIPLOMA IN PROJECT MANAGEMENT

BENEFITS OF THE DIPLOMA

If you're looking for a career where you can have a measurable, positive impact on almost any business, Project Management fits the bill. A good project manager can easily make the difference between a project coming in on time and under budget—or it falling.

Today, more and more employers are recognizing the need for skilled project managers to drive their profits and the median salary for project professionals is 16% higher globally (and 32% higher in the United States) than those without it.

There is no doubt in the fact that organizations prefer to recruit certified professionals who have the skillset, knowledge, and expertise to handle complex project management scenarios, which can be achieved by undertaking a project management certification.

COURSE OUTLINE

- Executive Overview of Project Management
- Executive Overview of PMI & PMBOK Guide
- Project Initiation
- Plan the Project (Planning of Plans)
- Plan the Project (Time, Cost, Quality & Resource Planning)
- Project Monitoring, Control and Evaluation

TARGET AUDIENCE

- Professionals willing to work as Project Managers, Project Coordinators, Program Managers, System Managers, Project Associates, Project Analysts, Project Administrators, Technical Project Managers
- Fresh graduates with 0-2 years of work experience
- Business / IT Analysts / Programmers / Business B2B Consultants

SALIENT FEATURES

- Evening Classes/ Twice a week
- Instalment Facility
- Internationally Certified Resource Person
- Curriculum based on PMI Standard Project Management Guide

www.pdc.nust.edu.pk
 +92-51-90856262 • +92-305-8529979, +92-301-8221543
 info@pdc.nust.edu.pk • /NUSTPDC @nustpdc
 https://www.linkedin.com/company/nustpdc/

National University of Sciences & Technology UAN: 111-116-678



PROFESSIONAL DIPLOMA IN SUPPLY CHAIN MANAGEMENT

BENEFITS OF THE DIPLOMA

Supply chain management is data-driven management keeping an eye on the end-to-end operation, the flow of information, goods, and service, right from the organization to the end customer. It is one of the core parts of a business and needs to be handled with utmost dedication. This course will help you understand the following:

- The strategic importance of the supply chain and its different components
- How to shortlist and select potential suppliers and formulate contracts
- Inventory types, costs, and various models of inventory management
- Types of warehouses, costs, designs, operations, and best practices of warehousing
- Formulating logistical strategy, freight consolidation, and freight integration
- Identifying global supply chain management, supply chain economics, and future trends.

COURSE OUTLINE

- Supply Chain Foundation
- Supply Chain Fundamentals
- Supply Chain Processes
- Supply Chain Challenges & Future Direction

TARGET AUDIENCE

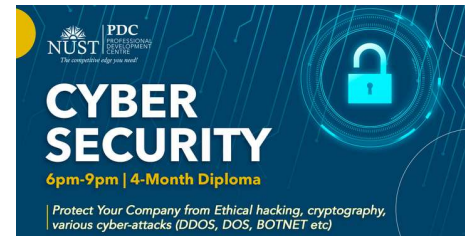
- Ideal course for professionals willing to move into junior and middle management procurement or supervisor role in Supply Chain
- Supply chain managers, public sector managers/leaders, warehousing professionals, and logistics

SALIENT FEATURES

- Evening Classes/ Twice a week
- Four Months
- Instalment Facility
- Internationally Certified Resource Person

www.pdc.nust.edu.pk
 +92-51-90856262 • +92-305-8529979, +92-301-8221543
 info@pdc.nust.edu.pk • /NUSTPDC @nustpdc
 https://www.linkedin.com/company/nustpdc/

National University of Sciences & Technology UAN: 111-116-678



CYBER SECURITY
 6pm-9pm | 4-Month Diploma

Protect Your Company from Ethical hacking, cryptography, various cyber-attacks (DDOS, DOS, BOTNET etc)

Data breach is no longer a worry!

Cyber security is mandatory in the era of cyber warfare, 5th generation warfare, deepfakes and misinformation. This diploma will help all organizations engaged in defence, security, information security, corporate, media, banking, governance and financial sector. Integration of technology in almost every field, increases the threat of cyber attacks. Therefore, understanding threats and their mitigation is inevitable for organizations.

Who Should Register?

All working professional including C-Suite Executives, Technology Architects, Security Analysts & Consultants, Developers, Programmers and Entrepreneurs.

Learning Domains

Introduction in Cyber Security | Strategic Aspects of Cyber Security | Ethical Hacking-I (Basics) Ethical Hacking-II (Network Attacks) | Web Application Security | Application Security Perimeter Defense | Digital Forensics-I| Digital Forensics- II | Cyber Threat Intelligence Cryptography | Advanced Cryptography | Blockchain- I| Blockchain- II| Malware Analysis- I| Malware Analysis- II| Cloud Security-I| Cloud Security-II| Cyber Security Management-I| Cyber Security Management-II| Cyber Security Auditing |IoT Security | Cyber Security and AI Group Discussion | Exam

www.pdc.nust.edu.pk

Call or WhatsApp PDC for Registration | 0305-852-9979

National University of Sciences & Technology UAN: 111-116-678



PPRA: Procurement and Contract Management
 (UNDERSTANDING PPRA RULES, PLANNING, PROCESSING & CONTRACTING IN PROCUREMENT)

PROGRAMME OVERVIEW:

Effective management of procurement is directly proportional to efficient business operations and it is also a sign of good governance. The way this function of the business is managed keeping in view rules and regulations of the regulatory authority determines success of the businesses. It is very important for people in private and Public sector organizations to understand and practice effective procurement principles compliant with PPRA rules with a view to improve governance, management, transparency, accountability and quality of goods, works and services. This all-encompassing course will cover Procurement Planning, Process of Public Procurement and Contract Management.

WHO SHOULD ATTEND:

- Procurement, purchasing and sourcing professionals and contract managers
- Senior/Mid-level management of public sector procurement departments
- Non-procurement professionals dealing with public sector procurement

REGISTRATION & ENQUIRIES

- +92-51-90856261/64/65/66 • 0305-852-9979
- info@pdc.nust.edu.pk • www.pdc.nust.edu.pk
- /NUSTPDC @nustpdc

COURSE CONTENT:

- Understanding principles of public procurement management
- Introduction to PPRA rules
- Procurement Planning
- Formation of bidding documents
- Evaluation Criteria
- Contract drafting and contract negotiation
- Audit observations
- Overall comparison of PPRA laws in Pakistan
- Exploring Markets
- Contract management
- Approval Mechanism
- Case Studies

www.pdc.nust.edu.pk

National University of Sciences & Technology UAN: 111-116-678

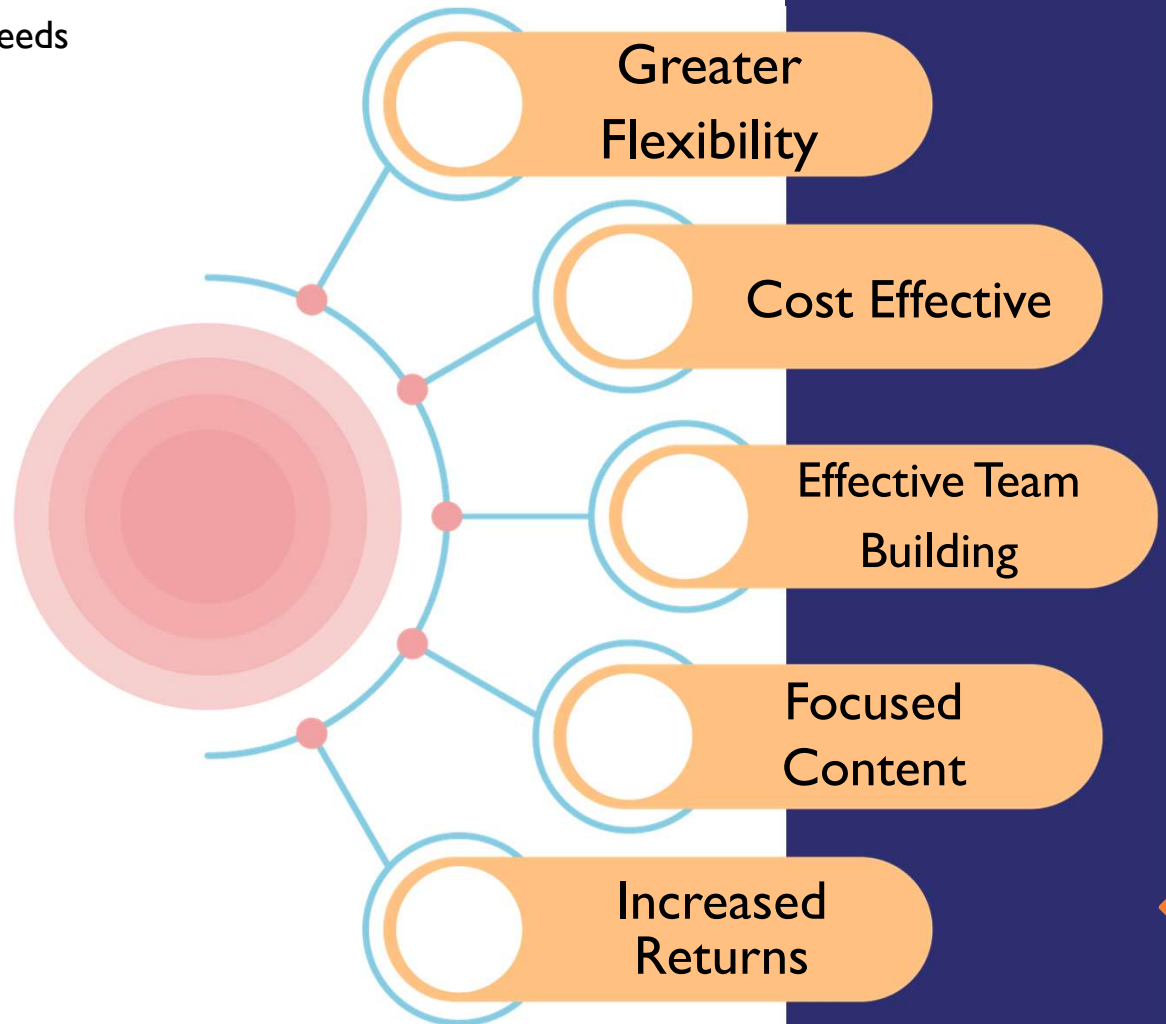
1.2. CUSTOMIZED TRAININGS

Customization Process

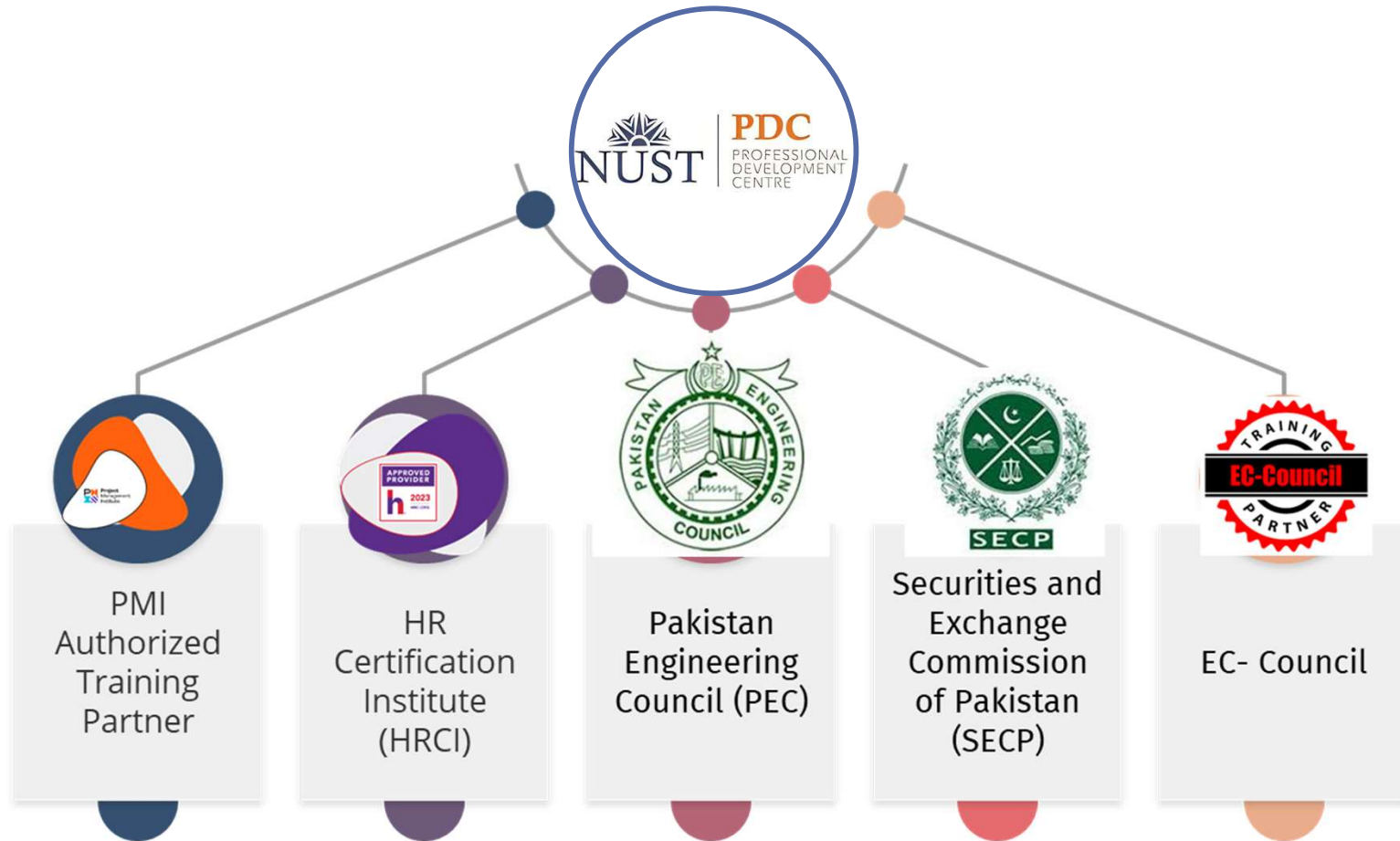


At PDC, our customized training programs are designed to address specific organizational needs and goals.

Why Choose NUST PDC for Customized Training?



I.3. GLOBAL AND NATIONAL ACCREDITATIONS



2. MANAGEMENT CONSULTANCY

- Collaborative Innovation
- Opportunity Exploration
- Use In-house Expertise
- Critical Issue Management
- Impactful Solutions



3. ASSESSMENT



Hogan Assessments & Behavioral Interviews



Our services include a complete range of licensed psychological assessments including Hogan, Saville, EQ, TRAIT, MBTI, SOSIE, GIOTTO, BIG-FIVE, Derailment, LSQ, CII, TDI which over employee development, selection as well as leadership assessments.

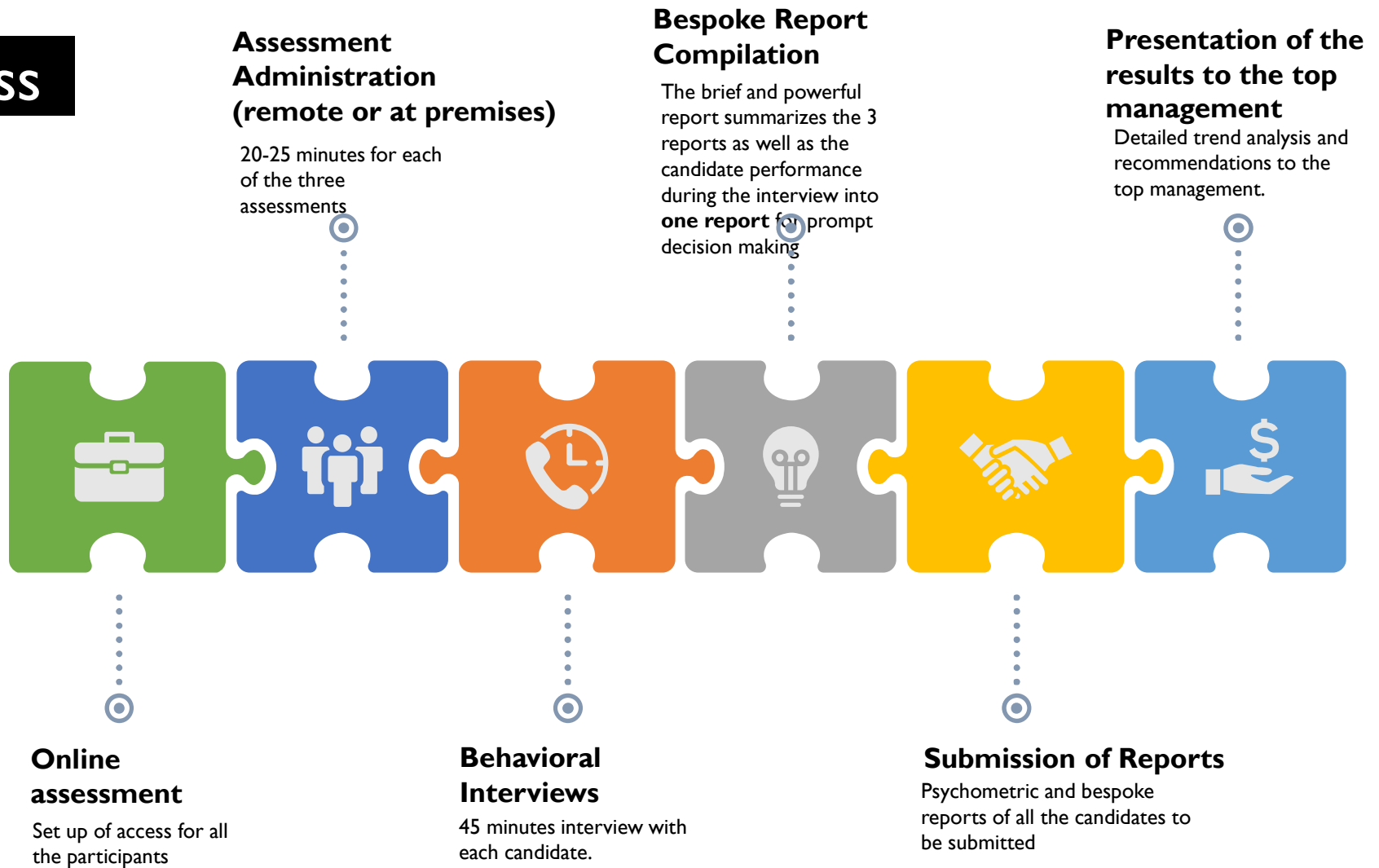
TRAINED
AND
CERTIFIED FROM



The
British
Psychological
Society



The Process



INDUSTRY-ACADEMIA PARTNERSHIPS



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



Touchstone Communications



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



State Bank NIBAF



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



AtomCamp



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



Rawalpindi Chamber of Commerce



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



Mobilink Microfinance Bank



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



IARS



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



ICAP



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



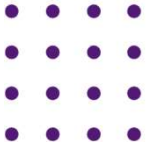
TLT



Professional Development Centre (PDC)
National University of Sciences and Technology (NUST)



Kohinoor Textile Mills





THANK YOU

 nust.edu.pk | UAN: 111-116-878 |      NUST