



Institute of Space Technology
Professional Development Center (PDC) Training Calendar 2025
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No	Title of Training	Subject Area	Name of Principal Speaker (PS)	Host Dept.	Dates	Venue at IST	Targeted Audience / Group	Feasible / Minimum No. of Participants	Required Qualification of Participants	Seniority Level	CPD Points
1	Coatings for industrial (wear, corrosion and aerospace) applications	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	8-Jan-25	MS&E Conference Room	Professionals, Faculty, Students	5 to 15	Bachelors, Diploma, Masters		1
2	Technical writing for Researchers	Materials Engineering	Dr. Muhammad Abdul Basit	MS&E	15-Jan-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	10	Bachelors, Diploma, Masters		0.5
3	Composites for Advanced Applications	Materials Engineering	Dr. Saad Nauman	MS&E	16-Jan-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	5-15	Bachelors, Diploma, Masters	Technicians, MD	0.5
4	How to Perform Failure Analysis	Engineering	Dr. Anjum Tauqir	NCFA	21-22 January, 2025	VCR, Raza Block	Design, Manufacturing Quality Engineers Maintenance Engineers Mechanical Engineers Materials Engineers Production Engineers Forensic engineers Engineering Students	10	NA	NA	1
6	EMC Testing & Analysis	Electromagnetic Interference / Testing	Engr. Irfan Majid, PE Dr. Muhammad Amin Engr. Sardar Ahmed PE	Ave	4-7 Feb 2025	EMC Lab / VCR IST	Electronics Manufacturers Strat Orgs Def Services, Academia	10	BE Elect / Avionics or Equivalent	Design Engineers & Managers	1
11	How to Manage Engineering Projects	Engineering and Management	Dr. Anjum Tauqir	NCFA	25-26 February, 2025	VCR, Raza Block	Engineers / Managers / Senior Managers involved in Projects Procurement PC - I Preparation Contracting	10	NA	NA	1
13	Astronomy Camp	Astronomy & Astrophysics	PI SARL	NCGSA	February 2025 / March 2025	SARL, Lab	School & College Students	-	School Education	-	0.5
18	Missile Design: One Day Seminar (Covering Aerodynamics, Weight, Flight, Performance Guidance etc)	Aerospace	Dr. Raees Fida Swati / Dr. Saad Riffat Qureshi	A&A	10-11 Apr 2025	VCR, Raza Block	Strat Commissions	10-15	BS Aero	Professionals	0.5
19	Aircraft Structural Analysis and Design of Material for Damage Tolerance and Reliability	Aerospace	Dr. Raees Fida Swati / Raja Nouman Haider	A&A	14-15 Apr 2025	VCR, Raza Block	Strat Commissions / Any Other	20-25	Engg	-	1
21	Titanium and Titanium Alloys	Materials Engineering	Dr. Abdul Wadood	MS&E	23-Apr-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	5-15	Bachelors, Diploma, Masters		1
22	Advanced coatings for industries (High wear, corrosion and hardness problems)	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	30-Apr-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma, Masters	Technicians, MD	1
24	Plasma Spray coatings for Industrial Applications (High wear and thermal barrier coatings)	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	14-May-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma, Masters	Technicians, MD	1

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	Coatings for industrial (wear, corrosion and aerospace) applications	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	18-Jun-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma, Masters	Technicians, MD	1
32	ADPL ANSYS FEA From CAD to Analysis	FEA/Numerical Analysis	Engr. Saad Akram	Mech	24-Jun-25	DME Block 7	Institutions, Research Organizations	40	BS/MSc. Students	Students	-
34	Reverse Engineering	Engineering	Dr. Anjum Tauqir	NCFA	24-25 June 2025	VCR, Raza Block	Engineer / Managers / Senior Managers involved in Manufacturing, Reverse Engineering and Indigenization Quality Assurance and Standardization Issues Structural Design, Production and Maintenance problems Researchers & Students of Materials Engineering, Structures, Design and Safety	10	NA	NA	1
35	Python Explorers	Python	Dr. Khurram Khurshid & Faculty	Computing	25-27 Jun 2025						
37	Smart Manufacturing and Monitoring Integrating Additive Manufacturing, Nanotechnology, and Wireless Sensor Systems	Advanced Manufacturing and Smart Materials in Mechanical Engineering	Dr. Yumna Quresh	Mech	3-Jul-25	DME Block 7	Institutions, Research Organizations	40	Minimum Bachelors Degree Holders	All Levels	-
38	Turbomachinery Design & Analysis (Design smarter, Optimize Faster)	Turbomachinery	Dr. Ihtaz Qamar	PEARL	1-3 Jul 2025						
39	AI & Robotics Summer Camp	AI & Robotics	Dr. Khurram Khurshid & Faculty	Computing	14-18 Jul 2025						
40	Selection of Compressor and Design of Compressed Air System	Selection of compressed based on application,	Dr. Naseem Ahmad	Mech	18-Jul-25	DME Block 7	Strategic Organizations, Research Engineers, University Researchers/Students	40	Minimum Bachelors Degree Holders	Mid & Junior Levels	-
41	Transforming Structural Anisotropy in Advanced Fibers into High Performance Composites	Composite Materials	Dr. Saad Nauman	MS&E	23-Jul-25						
42	EMI mitigation in PCB and IC Design	Electromagnetic Compliance /Signal Integrity	Engr. Irfan Majid, PE Dr. Muhammad Amin Engr. Sardar Ahmed PE External Specialist	Ave	22-24 Jul 2025	EMC Lab & VCR IST & Comp Lab (Lab123 etc.)	Electronics Manufacturers Strat Orgs Def Services, Academia	10	BE Eled / Avionics or Equivalent	Design Engineers	1
43	Characterization Tools for Engineers for Industrial Application	Industrial Application	Dr. Muhammad Yasir	MS&E	29-Jul-25	MS&E Conference Room		10			1

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45	Blending Statistical Tools & Quantitative Insights for Organizational Impact	Dr. Bilal Ahmad	CS	30-31 Jul 2025	VCR	Professionals	10			
46	Space Summer School	Dr. Najam Abbas Naqvi	NOGSA	July 2025 / August 2025	Auditorium, Raza Block	School & College Students		School Education		
47	Business feasibility study for engineers	Muhammad Awas	MS&E	6-Aug-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	5-15	Bachelors/Diploma Masters		
48	Generative Intelligence for Autonomous Learning	Dr. Khuman Khurshid & Faculty	CS	7-8 Aug 2025						
49	Transforming Data into Insights Using Power BI	Dr. Bilal Ahmad Dr. Madina Tahir	CS	11-12 Aug 2025	VCR	Professionals	10			
50	Transforming Data into Insights Using Power BI	Dr. Khuman Khurshid & Faculty	CS	18-19 Aug 2025						
51	Coatings for Industrial applications (Biomedical, Aerospace, Navy and Strategic Applications)	Dr. Muhammad Yasar	MS&E	20-Aug-25	MSE Conf Room		10			1
52	How to write technical research paper and how to publish paper in high impact factor journal	Dr. Naseem Ahmad	Mech	20-Aug-25	DME Block 7	Research Engineers, University Researchers/Students	10	Graduate	Mid & Junior Levels	
53	AI & Medical Imaging	Dr. Khuman Khurshid & Faculty	CS	25-26 Aug 2025						
54	Project Management Workshop	Dr. Najam Abbas Naqvi	NOGSA	September 2025	VCR, Raza Block	Early Career Professionals & Students		BS in the relevant field		
55	Introduction to Optimization & Neural Networks	Dr. Imroz Gamar	PEARL	2-4 Sep 2025	VCR & Lab 123	Officer from Strategic Orgs, Academics, Professional Engineers, Grad & Undergrad students	10	BS 16 Years education	Assistant Mgrs	
56	Characterization of Damage in Composite Materials & Numerical Modelling Techniques	Dr. Owais ur Rahman Shah	Mech	5-Sep-25	DME Block 7	Strategic Organizations, Research Engineers, University Researchers/Students	20	Graduate	Mid & Junior Levels	
57	Industrial Failures - Analysis & Prevention	Dr. Anjum Tauqir	NOGSA	16-17 September 2025	VCR, Raza Block	Engineers dealing with Structural Design, Production and Maintenance Problems, Conducting Failure Analysis Investigators of Air / Ground / Sea Accidents/Researchers and Students of Engineering Design and Safety	10	NA	NA	1

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58	Rehabilitation and Maintenance of Industrial equipment through surface engineering (Biomedical, Aerospace, Navy and Strategic Applications)	Biomedical, Aerospace, Navy and Strategic Applications	Dr. Muhammad Yasir	MS&E	24-Sep-25	MSE Conf Room		10			1
59	World Space Week STEM Teacher's Training Workshop	STEM Teaching Methodologies	Dr. Najam Abbas Naqvi	NCGSA	October 2025	IST Campus	School & College Students		School Education		-
60	Corrosion and its Protection	Materials Engineering	Dr. Abdul Wadood	MS&E	14-Oct-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	5-15	Bachelors, Diploma Masters	Technicians, MD	
61	Advanced coatings for industries (High wear, corrosion and hardness problems)	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	21-Oct-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma Masters	Technicians, MD	1
62	Effective Control of Curing Process in Resin Systems for Advanced Composites	Advanced Composites	Dr. Saad Nauman	MS&E	29-Oct-25						-
63	GNSS Winter School	Global Navigation Satellite Systems	Dr. Najam Abbas Naqvi	NCGSA	November 2025 / December 2025	VCR, Raza Block	Early Career Professionals & Students		BS in the relevant field		-
64	Fundamentals and Design of Turbomachinery from Theory to Practice	Engineering	Dr. Ihtaz Qamar	PEARL	14-16 Nov 2025	VCR & Lab 123	Officer from Strategic Orgs, Academics, Professional Engineers, Grad & Undergrad students	10	BS 16 Years education	Assistant Mgrs	-
65	Thermal spray coatings (Biomedical, Aerospace, Navy and strategic applications)	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	18-Nov-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma Masters	Technicians, MD	1
66	Metallography and Fractography in Failure Investigations & Quality Assessment	Engineering	Dr. Anjum Tauqir	NCFA	18-19 November, 2025	VCR, Raza Block	Engineer / Managers / Senior Managers involved in Manufacturing, Reverse Engineering and Indigenization/Quality Assurance and Standardization Issues/Structural Design, Production and Maintenance problems/Researchers & Students of Materials Engineering, Structures, Design and Safety	10	NA	NA	1
67	International Conference on Applications of Space Science & Technology (ICAST) Multiple trainings during the conference	Applications of Space Science & Technology	Dr. Najam Abbas Naqvi	NCGSA	November 2025	IST Campus	Professionals, Researchers & Students				-
68	Destination Schools	Space Sciences, and Technology	Dr. Najam Abbas Naqvi	NCGSA	Around the year as per requests received	As required	School & College Students		School Education		-
69	Coatings for industrial (wear, corrosion and aerospace) applications	Surface engineering and tribology	Dr. Muhammad Yasir	MS&E	16-Dec-25	MS&E Conference Room	Professionals, Faculty, Students	5-15	Bachelors, Diploma Masters	Technicians, MD	1

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Strategic Management of the Ministry of Education and Higher Education (MTEH) (Competition entry: MAT) (A)	Competition 5 MAT) (A)	Dr. Saad Al-Hamdan	MOE	17 Dec 2025						