

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 EngineersMaintenance EngineersMechanical EngineersMaterials EngineersProduction EngineersForensic engineersEngineering 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 ProjectsProcurementPC- I PreparationContracting	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 Qureshi	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 Ihtiaz 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 Elect / 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	Data Driven Decisions	Dr. Bilal Ahmad	CS	30-31 Jul 2025	VCR	Professionals	10	-	-	-
46 Space Summer School	Space Sciences & Technology	Dr. Najam Abbas Naqvi	NCOSA	July 2025 / August 2025	Auditorium, Raza Block	School & College Students	-	School Education	-	-
47 Business Feasibility Study for Engineers	Materials Engineering	Muhammad Awais	MS&E	6-Aug-25	MSE Conf Room	Researchers/Faculty/Scientists/Students	5-15	Bachelors/Diploma/Masters	-	-
48 Generative Intelligence for Autonomous Learning	Autonomous Learning	Dr. Khurram Khurshid & Faculty	CS	7-8 Aug 2025	-	-	-	-	-	-
49 Transforming Data into Insights Using Power BI	Power BI	Dr. Bilal Ahmad Dr. Maisha Tahir	CS	11-12 Aug 2025	VCR	Professionals	10	-	-	-
50 Transforming Data into Insights Using Power BI	Power BI	Dr. Khurram Khurshid & Faculty	CS	18-19 Aug 2025	-	-	-	-	-	-
51 Costings for Industrial Applications (Biomedical, Aerospace, Naval and Strategic Applications)	Costings	Dr. Muhammad Yousaf	MS&E	20-Aug-25	MSE Conf Room	-	10	-	-	-
52 How to write technical research paper and how to publish paper in high impact factor journal	Steps for publication in high impact journal	Dr. Nasreen Ahmed	Mech	20-Aug-25	DME Block 7	Research Engineers, University Researchers/Students	10	Graduate	Mid & Junior Levels	-
53 AI & Medical Imaging	AI & Medical Imaging	Dr. Khurram Khurshid & Faculty	CS	25-26 Aug 2025	-	-	-	-	-	-
54 Project Management Workshop	Principles of Project Management	Dr. Najam Abbas Naqvi	NCOSA	September 2025	VCR, Raza Block	Early Career Professionals & Students	-	BS in the relevant field	-	-
55 Introduction to Optimization & Neural Networks	Programming	Dr. Imtiaz Qamar	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	Identification and Characterization of damage modes in composite materials nonlinear numerical modeling of composite damage nonlinear dynamics of the Standard 3-Point Bending Test	Dr. Owais ur Rehman 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	Engineering	Dr. Anjum Taqvi	NCFA	15-17 September 2025	VCR, Raza Block	Engineers dealing with Structural Design, Production and Maintenance Problems Conducting Failure Analysis investigations of Air / Ground / Sea Accidents/Researchers and Students of Engineering Design and Safety	10	NA	NA	1

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57 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
58 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	-	-
59 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	-
60 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
61 Effective Control of Curing Process in Resin Systems for Advanced Composites	Advanced Composites	Dr. Saad Nauman	MS&E	29-Oct-25	-	-	-	-	-	-
62 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	-	-
63 Fundamentals and Design of Turbomachinery from Theory to Practice	Engineering	Dr. Ihtzaz 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	-
64 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
65 Metallography and Fractography in Failure Investigations & Quality Assessment	Engineering	Dr. Anjum Taqir	NCFA	18-19 November, 2025	VCR, Raza Block	Engineer / Managers / Senior Managers involved in Manufacturing, Reverse Engineering and IndigenizationQuality Assurance and Standardization IssuesStructural Design, Production and Maintenance problemsResearchers & Students of Materials Engineering, Structures, Design and Safety	10	NA	NA	1
66 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	-	-	-	-
67 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	-	-
68 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

Title of Meeting	Subject Area	Name of Principal Speaker (PS)	Meet Design	Date	Venue at IIT	Targeted Audience / Group	Possibly Maximum No. of Participants	Required Qualification of Participants	Sensitivity Level	GPO Possible
Subcommittee- M-Value-Value-Physical and Chemical- mechanical Design & Composites using MATLAB	Composite & MATLAB	Dr. Saad Kapoor	MTS	17 Dec 25						