

ISPEC 2025

AGENDA

DATE	TIME	SESSION NAME	BROAD AREA	SESSION THEME	COMPANY / SPEAKER
Day 0 - Mar 4 - PDC Courses For Industry Engineers at IIT Gandhinagar on Mar 4, 2025					
IIT Gandhinagar, Conference room 1 - Design and devices					
4th March 2025	9:00AM - 10:15AM	Professional Development Courses for Grad Students and Industry Engineers	Design & Devices	System Design & Architecture	Prof. Binod Kumar (IITJ)
	10:15AM - 11:30AM			Package Design	Prof. Rohit Sharma (IITRPR)
	11:30AM - 12:45PM			Devices - CMOS	Prof. Nihar Mohapatra (IITGN)
	12:45PM - 2:00PM	Lunch Break			
	2:00PM - 3:15PM	Professional Development Courses for Grad Students and Industry Engineers	Design & Devices	Devices - Power	Prof. Akshay K (IITBBS)
	3:15PM - 4:30PM			Integrated Sensors & MEMS	Prof. Bhaskar Mitra (IITD)
IIT Gandhinagar, Conference room 2 - Package Substrates and Assembly					
	9:00AM - 10:15AM	Professional Development Courses for Grad Students and Industry Engineers	Package Substrates and Assembly	Interconnecting Substrates	Prof. Pradeep Dixit (IITB)
	10:15AM - 11:30AM			Co-Packaged Optics	Prof. Naresh Emani (IITH)
	11:30AM - 12 :45PM			Materials - Device, Components & Packaging	Prof. Bhagwati Prasad (IISc) Prof. Murali KP (NITC) Prof. Praveen Kumar (IISc)
	12:45PM - 2:00PM	Lunch Break			
	2:00PM - 3:15PM	Professional Development Courses for Grad Students and Industry Engineers	Package Substrates and Assembly	Predictive Modelling & Design	Prof. Tarun Agarwal (IITGN)
	3:00PM - 4:30PM			IC & Board Assembly and Reliability	Prof. Nilesh Badwe (IITK)
IIT Gandhinagar, Conference room 3 - Integrated Packages & Systems					
	9:00AM - 10:15AM	Professional Development Courses for Grad Students and Industry Engineers	Integrated Packages & Systems	Integrated Power Electronics	Prof. Shiladri Chakraborty (IITB)
	10:15AM - 11:30AM			Thermal Design & Technologies	Prof. Anandaroop B (IITKGP)
	11:30AM - 12:45PM			6G Integrated Systems	Prof. Mrinal Mandal (IITKGP)
	12:45PM - 2:00PM	Lunch Break			
	2:00PM - 3:15PM	Professional Development Courses for Grad Students and Industry Engineers		System Level Electrical Test	Prof. Jaynarayan Tudu (IITTP)
Day 1 - H1 (Main Hall) - INAUGURAL SESSION - ALL TOGETHER- Mahatma Mandir, Gandhinagar					
5th March 2025	9:00AM - 1:00PM	Inaugural Session			
	9:00AM - 10:30AM	Inaugural	Welcome address and Visionary Keynotes	Powering India's Semiconductor Revolution: Charting the Future at Vision Summit and ISPEC2	
			Visionary Keynotes 5		
	10:30AM - 11:00AM	Inaugural	Coffee Break Networking		
	11:00AM - 12:30PM	Inaugural	Grand Inaugural session by VVIPs/ Dignitaries, Semiconductor Manufacturing Supply Chain Report launch	Viksit Bharat: The Crucial Role of Semiconductors in India's Growth, Development and 5 Trillion economy	
	12:45PM		Exhibition Inauguration	Sand to Silicon to Systems : Experience the End-to-End Ecosystem Journey	
	12:45PM - 2:00PM	Lunch Break			

ISPEC 2025

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Day 1 – H2-Mar 5 - ISPEC Keynote Sessions Session Chairs: Prof. Rao & Navin Bishnoi						
5th March 2025	2:00PM- 6:00PM	ISPEC Keynote Session	Welcome address and Platinum Keynote Talks	Welcome	Prof. Rajat Moona, Director, IITGN	
				IDSPS Program: Vision, Status & Plans	Prof. Rao Tummala	
				Semiconductor Focus at DST	Prof. Abhay Karandikar	
				Status & Plans of ISM	S Krishnan, Secretary, MeitY	
				Kaynes Advanced Packaging Roadmap	Dr. Mahadevan Iyer	
				Advanced Materials	Ravi Bhatkal, MacDermid Alpha	
		Coffee Break				
		ISPEC Keynote Session	Welcome address and Platinum Keynote Talks	Predictive Modeling & Design	Prof. Ganesh Subbarayan, Purdue	
				Next gen Tools	Suraj Rengarajan, Applied Materials	
				Power Electronics	Sriram Ramadoss, TI	
				Status of semiconductor manufacturing in Gujarat	Manish Gurwani, IAS	
				3D Advanced Packaging	Raja Swaminathan, AMD	
Day 2- H2- Mar 6 - ISPEC R&D Session: Next Gen Research in 12 Strategic Technologies Session Chairs: Ravi M, Intel and Prof. Abhisek D, IITD						
6th March 2025	9:00AM - 9:30AM	ISPEC R&D Session	Next Gen Research in 12 Strategic Technologies	System Design & Architecture	Prof. Binod Kumar (IITJ)	
	9:30AM - 10:00AM			Devices – CMOS	Prof. Nihar Mohapatra (IITGN)	
	10:00AM - 10:30AM			Devices – Power	Prof. Akshay K (IITBBS)	
	10:30AM - 11:00AM			Interconnecting Substrates	Prof. Pradeep Dixit (IITB)	
	Coffee Break					
	11:00AM - 11:30AM	ISPEC R&D Session	Next Gen Research in 12 Strategic Technologies	Co-Packaged Optics	Prof. Naresh Emani (IITH)	
	11:30AM - 12:00PM			Predictive Modelling & Design	Prof. Tarun Agarwal (IITGN)	
	12:30PM - 1:00PM			6G Integrated Systems	Prof. Mrinal Kanti Mandal (IITKGP)	
	1:00PM - 1:30PM			Integrated Sensors & MEMS	Prof. Bhaskar Mitra (IITD)	
	Lunch Break					
	2:30PM - 3:00PM	ISPEC R&D Session	Next Gen Research in 12 Strategic Technologies	Materials – Device & Packaging	Prof. Bhagwati Prasad (IISc)	
	3:00PM - 3:30PM			IC & Board Assembly and Reliability	Prof. Nilesh Badwe (IITK)	
	3:30PM - 4:00PM			Power Electronics	Prof. Shiladri Chakraborty (IITB)	
	4:00PM - 4:30PM			Thermal Management	Prof. Anandaroop Bhattacharya (IITKGP)	
	4:30PM - 5:00PM			System Level Electrical Test	Prof. Jaynarayan Tudu (IITTP)	
Day 2 – Mar 6 - ISPEC Student Poster Session: Next Gen Research Projects in 12 SRAs Session Chairs: Dr. Arun C, Intel and Prof. Nilesh B, IITK						
6th March 2025	5:30PM- 8:00PM	ISPEC Student Poster Session	Next Gen Research Projects in 12 SRAs	System Design & Architecture	9	
				Devices – CMOS	8	
				Devices – Power	10	
				Interconnecting Substrates	9	
				Co-Packaged Optics	4	
				Predictive Modelling & Design	8	
				6G Integrated Systems	8	
	Coffee Break					

ISPEC 2025

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		ISPEC Student Poster Session	Next Gen Research Projects in 12 SRAs	Integrated Sensors & MEMS	10		
				Materials – Device & Packaging	16		
				IC & Board Assembly and Reliability	10		
				Power Electronics	8		
				Thermal Management	11		
				System Level Electrical Test	8		
Dinner							
Day 3 – Mar 7 - ISPEC Workforce Session Session Chairs: Ravi Bhatkal, MacDermid & Prof. Shiv Govind, IITH							
7th March 2025		ISPEC Workforce Session		Manufacturing Skill Development	Dr. Ashwini Agarwal		
				Current Technology Workforce	Sharat Kaul, Kaynes		
				Next-gen Technology Workforce	Prof. Nilesh Badwe, IITK		
				Session Keynote – Workforce Needs in India	Manish Hooda, MeitY		
				Manufacturing Skill Workforce	Dr. Ashwini		
				Technology Workforce	Sharat		
				Poster Awards Session	Arun & Nilesh		
				Suppliers & Exhibitors Session	Venky, Kuldip & Davendar		
Day 3 – Mar 7 - ISPEC Supply Chain Session Session Chairs: Venky S, 3D Systems & Kuldip J, AtoTech							
7th March 2025	11:30am - 11:45am	ISPEC Supply Chain Session	Introduction	Global & India-Centric Packaging Supply Chain Ecosystem	Kuldip Johal & Venky Sundaram, Session Organizers (USA)		
	11:45am - 1:00pm			Global Keynote Session	IDM View of Advanced Packaging & India Site Update	Micron (Speaker - India Site Head)	
					India OSAT Plans and Status	Tata Semiconductor Assembly & Test	
					India OSAT Plans and Status	Kaynes Semiconductor	
					Indian Power Semiconductor Ecosystem View	CDIL	
					India OSAT Plans and Status	CG Semiconductor	
	1:00pm - 1:30pm		PANEL DISCUSSION #1	Indian Semiconductor, OSAT/Packaging Ecosystem Driving Future Supply Chain Demand			
Lunch Break							
	2:30pm - 3:45pm		Materials & Chemicals Supply Chain Keynotes		Sumitomo Bakelite		
					Taiyo Ink		
					Henkel		
					MKS Instruments-Atotech		
	3:45pm – 5:15pm				Schott Glass		
Coffee Break							
					Equipment, Design, Substrates, Assembly & Test Supply Chain Keynotes		Ansys
							Evatec
					Onto Innovation		
					Niterra Group		
	5:15pm - 5:45pm		PANEL DISCUSSION #2	What Motivation is Needed to Establish Leading Edge Supply Chain Capabilities in India?			
Day 4 – Mar 8 - Site Visit to Dholera & Sanand							
8th March 2025	9:00AM - 5:00PM	Site Visit to Dholera and Sanand	Visit to industrial Site 9 AM - 5 PM. On pre approval basis. Two separate routes.	Gujarat at the Heart of the Semiconductor Manufacturing Revolution: Exploring Dholera and Sanand Sites	Dholera/ Sanand visit		

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Date	TIME	Session Name	Broad Area	Session Theme
EXHIBITION				
5th Mar 2025	12:45PM	Exhibition	Inauguration of Exhibition by 12.45 PM	Sand to Silicon to Systems : Experience the End-to-End Ecosystem Journey
	1:00PM - 6:00PM		Exhibition Open for delegates	
6th Mar 2025	9:15AM - 1:00PM		Exhibition Open for delegates	
	1:00PM - 6:00PM		Exhibition Open for delegates	
7th Mar 2025	9:15AM - 1:00PM		Exhibition Open for delegates	
	1:00PM - 6:00PM		Exhibition Open for Students and Public	

Date	TIME	Session Name	Broad Area	Session Theme
PARALLEL SESSIONS				
5th Mar 2025			India Taiwan Roundtable	45-50 CXO Roundtable
			Roundtable with Infineon	30-35 Stakeholders roundtable
			Meetings in Meeting Rooms 1-9	Key Sponsor/Stakeholder/Govt Meetings
6th Mar 2025			India Japan Roundtable	30-40 Stakeholders Roundtable
			Meetings in Meeting Rooms 1-9	Key Sponsor/Stakeholder/Govt Meetings
			Round table with Embassies	Embassies
			India Singapore - round table	20-25 Stakeholders
5th/6th/7th Jan 25			Anchor Investors - meeting rooms	
			GoG - meeting room	
			Gol - meeting room	
			Korea - Round table - To be decided	
			US Country Round table - To be decided	