Joint Online Faculty Development Programme on
"Research Methodology"

Date: **18 - 29 April, 2022**

Date	Time	Session	Content	Expert
Day-1 (18/04/2022)	10:00 am - 10:30 am		**Inaugural Session**	------
	10:30 am - 11:30 am	Basics of research	Type and general aspects of research area, topic and related	Dr. Rajesh Biniwale
	11.30 am - 12.00 noon	Break		
	12:00 pm - 01:30 pm	Purposeful Research	How to find the purpose full research area (s) or assign a purpose to your current research Setting aims, objectives and scope of research with larger perspective. Piece of a jig-saw puzzle or gear of a machine	Dr. Rajesh Biniwale
	01:30 pm - 02:00 pm	Discussion		
Day-2 (19/04/2022)	10:00 am – 12:00 pm	Approach	Approaches to Research	Prof. Ashish Pandey
	12:00 pm- 12:30 pm	Break		
	12.30 pm to 02.00 pm	-	Approaches to Research Continued	-
Day-3 (20/04/2022)	10:00 am - 12:00 pm	Pathways	Pathways for Research, Innovation and Startups	Prof.. B.A.Chopade
	12:00 pm- 12:30 pm	Break		
	12:30 pm - 02:00 pm	Mindset	Research Mindset	Prof. B.A.Chopade
Day-4 (21/04/2022)	10:00 am - 11:45 am	Novelty in research	Additional thinking beyond prevailing methods, cross-disciplinary approach, newer methods how to design	Dr. Rajesh Biniwale
	11:45 am - 12:15 pm	Break		
	12:15 pm – 02:00 pm	Activity Session	Flowering of idea	Dr. Rajesh Biniwale

Day-5 (22/04/2022)	10:00 am - 11:30 am	Instrumentation	Sophisticated Instrumentation for Environmental Analysis (Part-1 Inorganics)	Dr. Amit Bansiwal
	11:30 am – 12:00 pm	Break		
	12:00 pm – 02:00 pm	Instrumentation	Sophisticated Instrumentation for Environmental Analysis (Part- 2 Organics)	Dr. Amit Bansiwal
Day-6 (25/04/2022)	10:00 am - 11:30 am	Experimental Planning, Data collection, Data Analysis	Design of experiments, how do we make sure sufficiency of experiments. Novel ideas in experiment designs, Sensitivity analysis, data processing etc.	Dr. Rajesh Biniwale
	11:30 am - 12:00 pm	Break		
	12:00 pm - 01:30 pm	Experimental Planning, Data collection, Data Analysis (continued)	Design of experiment, case study/demonstration of helicopter experiment (Include activity from participants)	Dr. Rajesh Biniwale
	01:30 pm – 02:00 pm	Quiz 1		
Day-7 (26/04/2022)	10:00 am - 11:30 am	Scientific and Effective Communication of Research Findings	Effectively communicate your research findings to research community, industry, society as relevant, Identifying patentability and protecting IPR.	IIT G Faculty
	11:30 am- 12:00 pm	Break		
	12:00 pm - 01:00 pm			IIT G Faculty
	01:00 pm - 02:00 pm			IIT G Faculty
Day-8 (27/04/2022)	10:00 am - 01:30 pm		Introduction to Action Research Consulting and Teaching	Prof. Ashish Pandey
	01:30 pm – 02:00 pm	Quiz 2		
	10:00 am - 11:30 am	Lab to Land	Translatory research, concept of technology, technology readiness	Prof. B.A.Chopade

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Day-9 (28/04/2022)			levels, application potential, cost-benefit-analysis	
	11:30 am – 12:00 pm	Break		
	12:00 pm - 02:00 pm	Extraordinary research environments	Research in special conditions, experience sharing for Aircraft, Sea Expedition and Antarctica Expedition.	Dr. Pavan Kulkarni
Day-10 (29/04/2022)	10:00 am - 11:30 am			IIT G Faculty
	11:30 am - 12:00 pm	Break		
	12:00 pm - 01:30 pm			IIT G Faculty
	01:30 pm - 02:00 pm	**Valedictory Session**		

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