



**16th Summer School in Tribology : (24-28 June, 2024 ) : At CSIR-Indian Institute of Petroleum, Dehradun – 248005, Uttarakhand**

Sl. No.	Time Slot	Date	Tech. Session #	Title of Talk	Speaker
<b>Day 1 : 24th June, 2024 (Monday)</b>					
0	0930-1015 Hrs	24th June, 2024		Inaugural Programme	By Invited Guest
	1015-1045 Hrs	Group photograph & Tea Break		Group photograph & Tea Break	
1	1045-1140 Hrs.	24th June, 2024	TS # 01	Basics of Tribology	Prof. Satish V Kailas, IISc, Bangalore
2	1140 -1230 Hrs.	24th June, 2024	TS # 02	Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants	Dr Kavita Rai, IndianOil (R&D), Faridabad
3	1230-1320 Hrs.	24th June, 2024	TS # 03	Fundamentals of Hydrodynamic Lubrication & Fluid Film Bearings	Prof Satish C Sharma, IIT Roorkee
	<b>1320-1400 Hrs Lunch (40Min)</b>	Lunch Break		Lunch Break	
4	1400-1450 Hrs.	24th June, 2024	TS # 04	Tribo - Testing and Performance Evaluation of Lubricants	Mr Ajay K Harinarain, IndianOil (R&D), Faridabad
5	1450-1540 Hrs.	24th June, 2024	TS # 05	High Temperature Tribology	Prof MF Wani NIT Srinagar, Jammu & Kashmir
6	1540-1630 Hrs.	24th June, 2024	<b>Guest Lecture 1</b>	Materials Tribology	Dr. B.Venkataraman, Amrita Vishwa Vidyapeetham, Coimbatore
	Tea Break (15Min)	Tea Break		Tea Break	
7	1645-1735 Hrs.	24th June, 2024	<b>Guest Lecture 2</b>	Tribology of Soft Materials	Dr Kartik Pondicherry, Anton-Paar Hyderabad
<b>Day 2 : 25th June, 2024 (Tuesday)</b>					
8	1000-1050 hrs	25th June, 2025	TS # 06	Tribology & Rheology of Lubricating Greases	Dr. Naveen Pokhriyal, IndianOil (R&D), Faridabad
9	1050-1145 hrs	25th June, 2025	TS # 12	Condition Monitoring and Diagnostics of Tribological Systems	Dr. Barun Chakrabarti, BONITAS CONSULTING SERVICES, Mumbai
	Tea Break (15Min)	Tea Break		Tea Break	

10	1200-1250 hrs	25th June, 2025	TS # 07	Bio Tribology	Prof AP Harsha, IIT BHU Varanasi
	<b>1250-1330 Hrs Lunch (40Min)</b>	Lunch Break		Lunch Break	
11	1330-1420 hrs	25th June, 2025	TS # 08	Tribology of Machine Elements	Dr P Ramakumar , IIT Madras
12	1420-1510 hrs	25th June, 2025	<b>Guest Lecture 4</b>	Tribology in Mining Applications	Mr Kamal Mukherjee, (Ex - Coal India Ltd, Bilaspur)
	Tea Break (20Min)	Tea Break		Tea Break	
13	1530-1620 hrs	25th June, 2025	TS # 09	Tribocorrosion –An overview	Dr. Geetha Manivasagam, VIT- Vellore
14	1620-1710 hrs	25th June, 2025	TS # 10	Wear of Ceramics and Composites	Prof B V Manoj Kumar, IIT Roorkee
<b>Day 3 : 26th June, 2024 (Wednesday)</b>					
15	1000-1055 hrs	26th June, 2024	TS # 11	Engine Tribology	Dr. Gopakumar Parameswaran, 3M India Ltd, Bangalore
16	1055-1145 hrs	26th June, 2024	<b>Guest Lecture 3</b>	Tribology of Automotive Tyres	Dr Simhachalam D. Juttu, ARAI Pune -----cancelled
	Tea Break (15Min)	Tea Break		Tea Break	
17	1200-1250 hrs	26th June, 2024	TS # 13	Tribology of Sheet Metal Rolling in Steel Plants	Dr. S K Thakur, SAIL - RDCIS, Ranchi
	<b>1250-1330 Hrs Lunch (40Min)</b>	Lunch Break		Lunch Break	
18	1330-1425 hrs	26th June, 2024	TS # 14	NDT Techniques in Tribology	Prof. Krishnan Balasubramaniam, IIT Madras
19	1425-1515 hrs	26th June, 2024	TS # 15	Slurry Erosion of Hydraulic Turbines and its Control	Prof. Harpreet Singh, IIT - Ropar
20	1515-1605 hrs	26th June, 2024	TS # 16	Condition Monitoring through Oil Analysis: Case Studies from Steel Plant	Dr. Anand Prabhakaran, TATA Steel - Jamshedpur-----cancelled
	Tea Break (20Min)			Tea Break	
21	1625-1715 hrs	26th June, 2024	TS # 17	Surface Topography and Wear of Components	Prof. Mayank Tiwari, IIT Patna
<b>Day 4 : 27th June, 2024 (Thursday)</b>					
22	1000-1050 hrs	27th June, 2024	TS # 18	Surface Characterisation Techniques	Prof. M S Bobji, IISc Bangalore

23	1100-1150 hrs	27th June, 2024	TS # 19	Sugar Mill Lubrication	Dr. Tarunendr Singh, BPCL (R&D), Mumbai
	Tea Break (10Min)	Tea Break		Tea Break	
24	1200-1250 hrs	27th June, 2024	TS # 20	Tribology of Rolling Element Bearings	Mr. Hari Dudhankar, Schaeffler India Limited, Pune
	<b>1250-1330 Hrs Lunch (40Min)</b>	Lunch Break		Lunch Break	
25	1330-1420 hrs	27th June, 2024	TS # 21	Tribology of Hydraulic Pumps and Compressors	Mr. Anjeeve George, Danfoss Power Sol. India Pvt. Ltd., Pune
26	1430-1520 hrs	27th June, 2024	<b>Guest Lecture 5</b>	Tribology in Aluminium Industries	Mr. K. Venkatesh, Hindalco Industries Limited, Mumbai
	Tea Break (20Min)	Tea Break		Tea Break	
27	1540-1630 hrs	27th June, 2024	TS # 22	Nano Tribology	Prof. Nityanand Gosvami, IIT Delhi
28	1630-1720 hrs	27th June, 2024	TS # 23	Modelling and experimental Simulations of lubricated Tribo-Contacts	Dr. GD Thakre, CSIR - Indian Institute of Petroleum, Dehradun
<b>Day 5 : 28th June, 2024 (Friday)</b>					
29	0900-1000 Hrs	28th June, 2024	Assessment Session	Examination with Objective Type MCQs based on the topics covered	
	15 Min-Tea break				
30	1015-1200 Hrs	28th June, 2024	Lab visit	CSIR-IIP Dehradun	
30	1200-1300 Hrs	28th June, 2024	Closing Session	Valedictory Program & Feedback Session	
	<b>1300-1340 Hrs Lunch (40Min)</b>				