

Program Schedule for QIP Short Course on  
**“Electromagnetic Metamaterials: Microwave-Infrared-Optical Applications”**

(Aug19 – Aug 23, 2019)

**Venue: PBCEC Big Class Room, Visitors Hostel, IIT Kanpur**

19/08/19	8.30 am - 9:00 am	REGISTRATION	
	9:00 AM – 9:10 AM	Welcome remarks by Prof. K. V. Srivastava and Prof. Anantha Ramakrishna	
	9:10 AM - 9:30 AM	Address by Representative of IIT Kanpur	
	9:30 AM – 10:00 AM	High Tea	
<b>Date</b>	<b>Time</b>	<b>Name of Speaker</b>	<b>Topic</b>
19/08/19	10:00 AM - 11:30 AM	Prof. H. Wanare	Review of Electromagnetic Theory / Electromagnetic Waves
Monday	11:30 AM – 1:00 PM	Prof. S.A. Ramakrishna	Introduction to Metamaterials
	1:00 PM – 2:15 PM	Lunch Break	
	2:15 PM – 3:45 PM	Prof. K. V. Srivastava	Introduction to Metamaterial (CRLH) Transmission Line
	3:45 PM – 4:00 PM		Tea Break
	4:00 PM – 5:30 PM	Prof. S. A. Ramakrishna	Modeling and Homogenization of Structured Materials
20/08/19	9:30 AM – 11:00 AM	Prof. K. V. Srivastava	Metamaterial Inspired Microwave Antennas
Tuesday	11:00 AM -11:15 AM		Tea Break
	11:15 AM-12:45 PM	Prof. M. J. Akhtar	Parameter Extraction of Metamaterial Structures
	12:45 PM – 2:15 PM		Lunch Break
	2:15 PM – 3:45 PM	Prof. Chandraprakash Chindam	Multifunctional metamaterials of Parylene C
	3:45 PM – 4:00 PM		Tea Break
	4:00 PM – 5:30 PM	Prof. S. Prabhu, TIFR	Tera Hertz (THz) Spectroscopy: Basics and Applications
21/08/19	9:30 AM – 11:00 AM	Prof. S. Prabhu, TIFR	THz Frequency Domain: Metamaterials Studies
Wednesday	11:00 AM -11:15 AM		Tea Break
	11:15 AM-12:45 PM	Prof. A. R. Harish	Metamaterial Inspired Reflector for Antenna Applications
	12:45 PM – 2:15 PM		Lunch Break
	2:15 PM – 3:45 PM	Prof. M. Jaleel Akhtar	Metamaterial Inspired RF Sensors
	3:45 PM – 4:00 PM		Tea Break
	4:00 PM – 5:30 PM	Prof. S. Anantha Ramakrishna	Characterization of Micro and Nano Structured Materials

22/08/19	9:30 AM – 11:00 AM	Prof. Jitendra Pradhan, RNU, Odisha	Aspect of Infra-red Metamaterials and its Applications
Thursday	11:00 AM -11:15 AM		Tea Break
	11:15 AM-12:45 PM	Prof. K. V. Srivastava	Microwave Metamaterial Absorbers
	12:45 PM – 2:15 PM		Lunch Break
	2:15 PM – 3:45 PM	Lab. Tour	RF and Microwave Lab. (KVS)
	3:45 PM – 4:00 PM		Tea Break
	4:00 PM – 5:30 PM	Lab Tour	Metamaterial and Plasmonics Lab. (SAR & JRK)
23/08/19	9:30 AM – 11:00 AM	Prof. Saptarshi Ghosh, IIT Indore	Active Microwave Metamaterial Absorbers
Friday	11:00 AM -11:15 AM		Tea Break
	11:15 AM-12:45 PM	Prof. J. Ramkumar	Micro-Fabrication Techniques for Metamaterial Structures
	12:45 PM – 2:15 PM		Lunch Break
	2:15 PM – 3:45 PM	Mr. Swapnil Gaul	TARANG Software for Electromagnetics
	3:45 PM – 4:00 PM		Tea Break
	4:00 PM – 5:30 PM	Valedictory Session	Certificate Distribution