



## Department of Materials Science & Engineering Indian Institute of Technology Kanpur

### New Course Allocation for 2020-21 Sem I

S.No.	Name of Faculty Member	20-21 Sem I	Comments
<b>UG Compulsory courses</b>			
1	ESO205T: Nature & Properties of Materials	Nilesh Gurao (npg@)	(Theory only)
2	TA201T: Manufacturing Processes	Anish Upadhyaya (anishu@)	(Theory only)
3	MSE201: Thermodynamics & Phase Equilibria	Kallol Mondal (kallol@)	
4	MSE300: Professional and Technical Communication	Anshu Gaur (agaur@)	
5	MSE301: Phase Transformation	Rajdip Mukherjee (rajdipm@)	
6	MSE302: Mechanical Behaviour of Materials	Sandeep Sangal (sangals@)	
7	MSE304A: Principles of Metal Extraction & Refining	Amarendra Kumar Singh (amarendra@)	Moved from even semester
8	MSE303: Electronic & Magnetic Properties of Materials	Deepak Gupta (saboo@)	
<b>PG Compulsory Courses (Not Open to UG)</b>			
9	MSE615: Structure and Characterization of Materials	Anandh Subramaniam (anandh@)	
10	MSE626N: Transport Phenomena	Dipak mazumdar (dipak@)	
11	MSE628: Electronic Devices & Characterization**	Sarang Ingole (sarang@)	
12	MSE693: Materials Science Applications in Life Sciences**	Kantesh Balani (kabalani@)	
<b>UG / PG Electives (Structure-Characterization-Property)</b>			
13	MSE642: Microscopy and Microanalysis of Materials	Gouthama (gouthama@)	
14	MSE658: Dislocations and Plasticity	Shashank Shekhar (shashank@)	
15	MSE694: Nanostructures and Nanomaterials: Characterization and Properties	Krishanu Biswas (kbiswas@)	
<b>UG / PG Electives (Metal Processing Stream)</b>			
16	MSE659: Powder Metallurgy	Shikhar K Jha (skjha@)	
17	MSE670: Solidification Processing	Kaustubh Kulkarni (kkaustub@)	

18	MSE671: Heat Treatment and Surface Hardening	Sudhanshu Shekhar Singh (sudhanss@)	
<b>Departmental Electives (Open for both UG and PG Students)</b>			
19	MSE673: Fundamentals and Applications of Electrochemistry	Shobit Omar (somar@)	
20	MSE682: Computer Simulations in Materials Science	Somanth Bhowmick (bsomanth@)	
21	MSE681: Solar Energy Technologies & Materials	Kanwar Singh Nalwa (ksnalwa@)	
22	MSE678A: Steel Plant's Technologies, Operations & Equipment	B B Agarwal (bbag@) Amarendra Kumar Singh (amarendra@)	
<b>Tutors and other courses</b>			
23	MSE690, MSE691	Vivek Verma (vverma@)	
24	MSE699, MSE799	DPGC Somnath Bhowmick (bsomanth@)	As per Institute's decision
25	UGP	DUGC Kaustubh Kulkarni (kkaustub@)	As per Institute's decision
26	Tutors	<b>MSO203B</b> Ashish Garg (ashishg@)	<b>Decision of Maths Department to offer</b>
		<b>TA201T:</b> <b>Student Tutors</b>	Tutors needed for grading only
		<b>ESO205T:</b> (Kanwar Singh Nalwa (ksnalwa@), Monica Katiyar (mk@), Tanmoy Maiti (tmaiti@), Sarang Ingole (sarang@), tutor from Chem Eng.)	

\*\* Course is offered as a minor

Course Schedule/Time Table can be accessed through DoAA site Link: -

<https://www.iitk.ac.in/doaa/data/Course Schedule 2020-21-1.pdf>