

H&AS- Subjects mapped with NPTEL courses

2020 Course List							
First Year 20-21 (Odd Semester)							
Semester	Subject	Chapter (if applicable)	Course Name	Course home Page link (Sept- Dec 2020)	Week No (If applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)	
Induction Program	Universal Human Values	General	Enhancing Soft Skills and Personality	https://onlinecourses.nptel.ac.in/noc21_hs02/preview	8 weeks	https://nptel.ac.in/courses/109/104/109104068/	
I	Engineering Mathematics-I	Matrices	Basic linear algebra	https://onlinecourses.nptel.ac.in/noc21_ma03/preview	1,2,3,4	https://nptel.ac.in/courses/111/104/111104111	
	Engineering Mechanics		Engineering Mechanics - Statics and Dynamics	https://onlinecourses.nptel.ac.in/noc21_me01/preview	8 Weeks	https://nptel.ac.in/courses/112106180/	
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First Year (Odd Semester)							
Semester	Subject	Chapter (if applicable)	Course Name	Course home Page link (Sept- Dec 2020)	Week No (If applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)	
Induction Program	Universal Human Values			https://onlinecourses.nptel.ac.in/noc20_ma33/preview	1,2,3,8	https://nptel.ac.in/courses/109/104/109104068/	
I	Engineering Mathematics-I	Numerical Methods	Numerical Methods			https://nptel.ac.in/courses/111/107/111107105/	
		Matrices	Matrix Analysis with Applications	https://onlinecourses.nptel.ac.in/noc20_ma34/preview	1	https://nptel.ac.in/courses/111/106/111106101/	
		Partial Derivatives	Linear Algebra	https://onlinecourses.nptel.ac.in/noc20_ma54/preview	1,2,3		
		Complex Numbers	Engineering Mathematics-I	https://onlinecourses.nptel.ac.in/noc20_ma37/preview	2	https://nptel.ac.in/courses/111/105/111105121/	
	Engineering Physics-I	crystallography	Complex Analysis	Complex Analysis	https://onlinecourses.nptel.ac.in/noc20_ma50/preview	1,2	https://nptel.ac.in/courses/111/103/111103070/
		Superconductors and supercapacitors	Solid State Physics	Solid State Physics	https://onlinecourses.nptel.ac.in/noc20_ph15/preview	2,3,4,12	https://nptel.ac.in/courses/115/105/115105099/
		Semiconductor physics	Superconductors and supercapacitors	Solid state physics	https://onlinecourses.nptel.ac.in/noc20_ph15/preview	4,11,12	https://nptel.ac.in/courses/115/105/115105099/
		Interference	Semiconductor physics	Semiconductor Optoelectronics	https://onlinecourses.nptel.ac.in/noc20_ph24/preview	1,2,12	https://nptel.ac.in/courses/115/102/115102026/
		Semiconductor Physics	Interference	Waves and oscillations	https://onlinecourses.nptel.ac.in/noc20_ph22/preview	11	https://nptel.ac.in/courses/115/106/115106119/
		engineering materials and its applications	Semiconductor Physics	Physics of Materials	https://onlinecourses.nptel.ac.in/noc20_mm17/preview		https://nptel.ac.in/courses/113/106/113106039/
Engineering Chemistry-I	Polymer	engineering materials and its applications	Solid State Physics	https://onlinecourses.nptel.ac.in/noc20_ph15/preview	9,10,11,12	https://nptel.ac.in/courses/115/105/115105099/	
Engineering Mechanics	System of Coplanar Forces	Polymers, concepts properties uses and sustainability	Polymers, concepts properties uses and sustainability	https://onlinecourses.nptel.ac.in/noc20_ch41/preview	1,2	https://nptel.ac.in/courses/104/105/104105124/	
	Resultant	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	1	https://nptel.ac.in/courses/112/106/112106286/	
	Equilibrium of System of Coplanar Forces	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	1	https://nptel.ac.in/courses/112/106/112106286/	
	Equilibrium of Beams	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	2	https://nptel.ac.in/courses/112/106/112106286/	
	Friction	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	3	https://nptel.ac.in/courses/112/106/112106286/	
	Kinematics of Particle	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	6	https://nptel.ac.in/courses/112/106/112106286/	
	Kinematics of Rigid Body	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	7,8	https://nptel.ac.in/courses/112/106/112106286/	
Basic Electrical and Electronics Engineering	DC Circuits	Engineering Mechanics	Engineering Mechanics	https://onlinecourses.nptel.ac.in/noc20_me46/preview	9	https://nptel.ac.in/courses/112/106/112106286/	
	AC Circuits	Basic Electrical Circuits	Basic Electrical Circuits	https://onlinecourses.nptel.ac.in/noc20_ee64/preview	5	https://nptel.ac.in/courses/108/105/108105053/	
	Three Phase Circuits	Fundamentals of Electrical Engineering	Fundamentals of Electrical Engineering	https://onlinecourses.nptel.ac.in/noc20_ee68/preview	5	https://nptel.ac.in/courses/108/108/108108076/	
	Single Phase Transformer	Fundamentals of Electrical Engineering	Fundamentals of Electrical Engineering	https://onlinecourses.nptel.ac.in/noc20_ee68/preview	1		
	DC Machines	Electrical Machine I	Electrical Machine I	https://onlinecourses.nptel.ac.in/noc20_ee60/preview	5		
	Three Phase & Single Phase Induction Motors, Stepper Motor	Electrical Machine I	Electrical Machine I	https://onlinecourses.nptel.ac.in/noc20_ee60/preview	6		
		Fundamentals of Electrical Engineering	Fundamentals of Electrical Engineering	https://onlinecourses.nptel.ac.in/noc20_ee68/preview	1		