	Subject Name-COMMUNICATION SKILLS							
Code	Course Tittle	Pap er Cod	Topics	Links				
6801	COMMUNIC ATION SKILLS	<b>e</b> 6801	Grammar(parts of speech)	https://www.youtube.com/watch?v=7WVnd 07KCKY				
			tenses	https://www.youtube.com/watch?v=3iHVncx N37k				
			auxillary verb	https://www.youtube.com/watch?v=Vr3w73 ZbfpU				
			Determiners	https://www.youtube.com/watch?v=j3OCs_t 2kaE				
			Active and passive voice	https://www.youtube.com/watch?v=vdFVjGe Ad1w				
			preposition	https://www.youtube.com/watch?v=HRZZIwI HeUM				
			Definition,process,t ypes	https://www.youtube.com/watch?v=RkebtEk 2zU0				
			Barriers of communication	https://www.youtube.com/watch?v=ZzuYQfs zCKE				
			Letter of enquiry	https://www.youtube.com/watch?v=iQY2I9- IDmI				
			letter placing order	https://www.youtube.com/watch?v=8mwWL swFMhY				
			complaint letter	https://www.youtube.com/watch?v=vf1wlNp ZWWA				

	Report writing	https://www.youtube.com/watch?v=860LtRx P3rw
	diff between resume and cv	https://www.youtube.com/watch?v=D- V5i_t165w

	PHYSICS-6802							
Code	Course Title	Paper Code	Topics		Links			
6802	PHYSICS	6802	UNITS, DIMENSIONS & MEASUREMENTS		https://youtu.be/HQdy2Z-GmdY			
				Measurement	https://nptel.ac.in/courses/112/103/1 12103290/			
				Accuracy	https://www.youtube.com/watch?v= Mdn2VbIACAU			
				Instruments	https://www.youtube.com/watch?v= J8dAiop3ZJs			
			GENERAL PROPERTIES OF MATTER		https://youtu.be/Y143KpsNncw			
				Elasticity	https://swayam.gov.in/nd1_noc20_c e42			
				Surface Tension	https://www.youtube.com/watch?v= goYiq P0hlE			
				Viscosity	https://www.youtube.com/watch?v= <u>0EZ1A4eTuzI</u>			
			HEAT AND THERMODYNAMIC S		https://youtu.be/jQepo3O4IN8			
				Transmission of heat and expansion of solids	https://www.toppr.com/guides/physics/thermal-properties-of-matter/heat-transfer/			
				Gas laws and specific heats of gases	https://www.youtube.com/watch?v= 3dyxjBwqF-8			
			LIGHT					
				Properties of light	https://www.google.co.in/search?bi w=1366&bih=657&tbm=vid&sxsrf= ALeKk03f3wkNiIrG4GvfemJmOe51 d5WOMA%3A1593082259687&ei =k4H0XtS-			

			Kc7yrAGVj53IAg&q=Properties+of +light+nptel&oq=Properties+of+ligh t+nptel&gs l=psy- ab.333356.33356.0.34402.1.1.0.0. 0.0.209.209.2- 1.1.001c.1.64.psy- ab0.0.00.qLOsuN8Saew#
		Wave theory of light & Interference	https://youtu.be/PEXSH8dB-Uk
		Laser	https://youtu.be/FNp81kkxj5c
	MODERN PHYSICS		
		Photo electricity	https://youtu.be/6xxqhAOzAXg
		X-rays	https://youtu.be/iPTZJy0lios https://youtu.be/Nos SQ2DpRw7

			СНЕМІ	STRY-6803	
Code	Course Title	Paper Code	Topics		Links
6803	CHEMIS TRY	6803	ATOMIC STRUCTURE AND CHEMICAL BONDING		https://nptel.ac.in/courses/104/106/1041060 96/
				Bohr Burry scheme of filling the electrons in various orbits.	https://www.youtube.com/watch?v=UB5m zqW-SxE
				Hunds rule and filling of orbitals by Aufbau principle	https://study.com/academy/lesson/atomic- structures-pauli-exclusion-principle- aufbau-principle-hunds-rule.html
				Bonding: Nature of bonds	https://www.khanacademy.org/science/biology/chemistryof-life/chemical-bonds-and-reactions/v/electronegativity-and-chemical-bonds
			THEORIES OF IONISATION,EL ECTROCHEMIS TRY ,FUEL CELLS. WATER		
				Arrhenius theory of ionization	https://www.youtube.com/watch?v=kevm_GZkO0s
				Electrolysi s	https://www.youtube.com/watch?v=dRtSjJ CKkIo
				hardness of water	https://www.youtube.com/watch?v=eR2_b NTZ4Qo
				Determinat ion of hardness of water by O. Hehner's method, EDTA and soap solution method	https://www.youtube.com/watch?v=Zprqah 29Zk

T		
METALS AND ALLOYS , CORROSION		https://www.youtube.com/watch?v=Ipzq51 RIIdY
	Explanatio n of alloying process	https://www.youtube.com/watch?v=4k8BI6 SUnyA
	Corrosion & types of corrosion	https://www.coursera.org/lecture/corrosion/ types-of-corrosion-TXKrG
	Corrosion control	https://www.toppr.com/guides/chemistry/electrochemistry/corrosion-prevention-method/
ENGINEERING MATERIALS		
	Glass	https://study.com/academy/lesson/types-of-glasses-uses-properties.html
	Cement	https://www.youtube.com/watch?v=cx5gP Kp9QEc
	Refractorie s	https://www.youtube.com/watch?v=YH- 00EOnfEE&vl=en
	Lubricants	https://www.youtube.com/watch?v=HTIzw P8BKC8
	Nano materias and its application s	https://www.youtube.com/watch?v=11PynxAhebs
NON METALLIC COMPOUNDS AND FUELS		https://www.youtube.com/watch?v=8Kqho V- v5ks&list=PLvWjkcdLjGrfVwTOV8eg6S SX2m5cw -kl&index=75&t=0s
	Polymers	https://www.youtube.com/watch?v=28qrk9 RY-es
	insulators	https://www.youtube.com/watch?v=tM9QT 1v0zq0
	Combustio n and fuel	https://www.youtube.com/watch?v=ub86D hg67tM

	MATHS-6804								
Code	Course Title	Paper Code	Topics		Links				
6804	MATHS	6804	Metrics and Determinants		https://youtu.be/SJOTtb1FTfs				
			Calculus		https://youtu.be/UukVP7Mg3TU				
			Coordinate Geometry		https://youtu.be/80e_kswv0Pg				

	Subject Name- Applied mechanics								
Code	Course Tittle	Paper Code	Topics		Links				
6805	Applied mechanics	6805	Composition and resolution of force	http	os://youtu.be/KKeXsGKPu1I				
			Parallel forces and force couple	http	os://youtu.be/XOj-ToMZVx0				
			Moments and their applications	http	os://youtu.be/wacoFm53rBg				
			Equilibrium of forces	http	os://youtu.be/M28TDk48Sa4				
			Centre of gravity		os://youtu.be/sYktzlvZOJc os://youtu.be/0tymrp3SXK0				
			Friction	http	os://youtu.be/EPMafoCAuts				
			Simple lifting machnes	_	os://www.youtube.com/playlist?list=PLkipyWs8l0t6- wPfXOGP6xr837uMSh				
			Motion of a particle	http	os://youtu.be/QkD5rl_uf4k				

	Laws of motion	https://youtu.be/NkT0tQhWthM
	Work , power , and energy	https://youtu.be/r_1BOXzAw_A

		ENV	/IRONMENTAL E	NGG AND SAF	ETY-6806
Code	Course Title	Paper Code	Topics		Links
6806	ENVIRON MENTAL ENGG AND SAFETY	6806	INTRODUCTION TO ENVIRONMENT		
				Ecosystem	https://swayam.gov.in/nd1_noc19_ge_23/
				Biodiversity	https://www.youtube.com/watch?v=hi hFHam_wNE
				Environmental protection laws	https://www.youtube.com/watch?v=C TUOchYZG2k
			AIR POLLUTION		
				Classification & sources of air pollutants	https://nptel.ac.in/courses/105/104/10 5104099/
				Acid rain	https://www.toppr.com/guides/chemis try/environmental-chemistry/acid- rain/
				Global warming & green house effect	https://www.toppr.com/guides/chemis try/environmental- chemistry/greenhouse-effect-and- global-warming/
				Ozone layer depletion	https://www.youtube.com/watch?v=B z9sc5Jgsvc
			WATER POLLUTION AND WASTE WATER TREATMENT METHOD		https://www.youtube.com/watch?v=w f-IrsadxmU
				Theory of industrial waste treatment process	https://nptel.ac.in/courses/105/106/10 5106119/
				Biochemical oxygen demand	https://www.youtube.com/watch?v=e DTAW0ZvQI8

	Chemical oxygen demand	https://www.youtube.com/watch?v=q ABQpTNYVkc
ENERGY ENVIRONMENT CLIMATE CHANGE		
	Bureau of Energy Efficiency (BEE)	https://www.youtube.com/watch?v=n OAegfwW02k
	National Action Plan on Climate Change (NAPCC)	https://www.youtube.com/watch?v=u QudtjW6tJE
	National Mission for Enhanced Energy Efficiency (NMEEE)	https://www.youtube.com/watch?v=tg JHnKdU_WU
	Kyoto Protocol	https://www.youtube.com/watch?v=I ZgBPL17a6M
	Energy Conservation Building Code (ECBC)	https://www.youtube.com/watch?v=n OAegfwW02k
SOLID WASTE MANAGEMENT& NOISE POLLUTION		https://youtu.be/pGAouXqulNI
	Sources and classification of solid waste	http://www.digimat.in/nptel/courses/video/105105160/L07.html
	Disposal methods	https://youtu.be/IDrIGTnTuBI
	Noise pollution	https://youtu.be/OpR39D-IlvY

## VIDEO LECTURES ON INTRODUCTION TO COMPUTERS 6807

S.NO.	SEM	SUBJECT	SUBJECT CODE	TOPIC	AVAILABLE URL
1				COMPUTER-BLOCK DIAGRAM	https://www.tutorialandexample.com
2				generation of computers	https://www.tutorialspoint.com
3				computer languages	https://www.toppr.com
4				low level language	https://www.javapoint.com
5			TION TO 6807	high level language	https://www.javapoint.com
6		INTRODUCTION TO		number system	https://www.tutorialspoint.com
7	I II	COMPUTERS		number system conversion	https://www.tutorialspoint.com
8		COMPOTERS		function of email	https://study.com
9				hardware devices	https://www.tutorialspoint.com
10				software devices	https://www.tutorialspoint.com
11				power point presentation	https://www.slideshare.net
12				internet	https://www.internetsociety.org
13				input ands output devices	https://www.tutorialandexample.com

	Subject Name-ENGINEERING DRAWING ( OCBC SCHEME )							
Code	Course Tittle	Paper Code	Topics		Links			
6808	208 Engineering 6808 Orthographic projection		Orthographic projection	Basics of projection	https://youtu.be/SB83cUaAiCM			
				Projection of point	https://youtu.be/aZ3gnOQIFHI			
				Projection of lines I	https://youtu.be/MSg7DpKgaK8			
				Projection of lines II	https://youtu.be/wzxAFXejjw8			
			Projection of planes	Basics of projection of planes	https://youtu.be/SNWhs81ho0Q			
				Projection of solids	https://youtu.be/S3ma-LKVJdI			
			Plane and diagonal scales		https://youtu.be/yneCL-mXeH8			
			Projection of point		https://youtu.be/MzbxVLFKN9g			
			Projection of planes I		https://youtu.be/anG2oGzGgF8			
			Projection of planes II		https://youtu.be/qQsdiV9PPWI			
			Projection of planes III		https://youtu.be/r709SU9w_Eg			
			Projection of solids I		https://youtu.be/gb3OCnkr5Ts			

Projection of solids II	https://youtu.be/2HA5eTpO6ec
Projection of surfaces I	https://youtu.be/8qpTtaTSdBA
Projection of surfaces II	https://youtu.be/8yWsVAeeB78
Comic sections I	https://youtu.be/3V_k9u3Uny8
Conic section	https://youtu.be/OM6FB3DWFTI
Conic section	https://youtu.be/t5szsD_4kG4
Conic section IV	https://youtu.be/UFpKFyLt8Iw
Development of prism and pyramids	https://youtu.be/8qpTtaTSdBA
Isometric projection I	https://youtu.be/9aFDVSlcdvI
Isometric projection II	https://youtu.be/tLFjCS3h9MY
Isometric projection III	https://youtu.be/TqrID4SeFTo
Development of cone and cylinder	https://youtu.be/8yWsVAeeB78

Subject Name- Basic electronics								
Code	Course Tittle	Paper Code	Topics	Links				
6811	Basic electronics	6811	Basics of semiconductor	https://youtu.be/N4HJDXr1Ugl https://youtu.be/vKBKKqvpvrk https://youtu.be/1zpvjKWwMLA https://youtu.be/0R1UOcNvzGc https://youtu.be/2U5X4W6Pj1c https://youtu.be/435UtPEYURg				
			Pn junction diode	https://youtu.be/h3fHg6z9wsA  https://youtu.be/vadxA7LEjBc  https://youtu.be/kOHHIC_euZM  https://youtu.be/kM-o_m74E_U  https://youtu.be/S8pBNda9rFY  https://youtu.be/wzE1VE0-Yd8  https://youtu.be/eXvsMIczu8E  https://youtu.be/ZBq76Ecisdw  https://youtu.be/7nUxbzdTG6s  https://youtu.be/W7Is13QZoel				
			Special purpose didode	https://youtu.be/I2nrBITEVIs  https://youtu.be/dTEOVD0eBsM  https://youtu.be/BzkpfwR9bU0  https://youtu.be/dTEOVD0eBsM				

	Bipolar junction transistor	https://youtu.be/0C4uxtS-tIQ
	Junction field effect transistor	https://youtu.be/xgYdLvWcvms
	Mosfet	https://youtu.be/MuBiC9yz2fc
	Rectifier	https://youtu.be/ofW4DZH83JQ

	Subject Name- Basics of Electrical Engineering							
Code	Course Tittle	Pape r Code	Topics		Links			
6812	Basics of Electrical Engineering	ectrical	mental s of D.C. circuits	Electric current and voltage Ohms	https://www.youtube.com/watch?v=ul3fXTKEeLA  https://www.youtube.com/watch?v=JkCcjK0yRjk			
				Resistan ce and Resistivit	https://www.youtube.com/watch?v=GHrHRBMjno0			
				Voltage Divison Rule	https://www.youtube.com/watch?v=AvJr8soYdrA			
				Star- Delta Transfor mation	https://www.youtube.com/watch?v=bv8E0nxfvgY			
				KCL and KVL	https://www.youtube.com/watch?v=vHORBJCiv5w			
				Working principle and application of primary and secondary cell.	https://www.youtube.com/watch?v=QWPVzHhXnQA			
			Funda mental s	Basic of AC circuit	https://www.youtube.com/watch?v=bfR0k0BJeBE&list= PL4K9r9dYCOooGgiUl3yVbej4MlrBBglhK			
			of A.C. circuits	Generatio n of Sinusoida 1 AC Voltage,	https://www.youtube.com/watch?v=V7TFtK6epOg&list= PL4K9r9dYCOooGgiUI3yVbej4MIrBBgIhK&index=2			
				Standard terminolo gy of AC waveform	https://www.youtube.com/watch?v=HAXnJXX762k&list= PL4K9r9dYCOooGgiUI3yVbej4MIrBBglhK&index=3			

		RMS value	https://www.youtube.com/watch?v=3BsNaoY9CVs&list= PL4K9r9dYCOooGgiUl3yVbej4MIrBBglhK&index=4
	Funda mental s of Magne tic circuits	Average Value	https://www.youtube.com/watch?v=EjvBytl98UQ&list=P L4K9r9dYCOooGgiUl3yVbej4MIrBBglhK&index=5
		Concept of phase and phase difference	https://www.youtube.com/watch?v=y9YKcsCWy4s&list= PL4K9r9dYCOooGgiUI3yVbej4MIrBBgIhK&index=12
		AC quantities as phasor	https://www.youtube.com/watch?v=ATcAZqLux6o&list= PL4K9r9dYCOooGgiUl3yVbej4MIrBBglhK&index=13
		Form factor and peak factor	https://www.youtube.com/watch?v=6ZOJwCQwQ34&lis t=PL4K9r9dYCOooGgiUI3yVbej4MIrBBgIhK&index=6
		AC through pure R	https://www.youtube.com/watch?v=hrM21Pi3ByY&list= PL4K9r9dYCOooGgiUI3yVbej4MIrBBgIhK&index=20
		AC through pure L	https://www.youtube.com/watch?v=_UTegajMHpw&list =PL4K9r9dYCOooGgiUI3yVbej4MIrBBgIhK&index=21
		AC through pure C	https://www.youtube.com/watch?v=GOK4IJXzJqE&list=P L4K9r9dYCOooGgiUI3yVbej4MIrBBglhK&index=22
		Basics of magnetic circuit	https://www.youtube.com/watch?v=M-QfX2fvpp4
		Terminolo gies	https://www.youtube.com/watch?v=M-QfX2fvpp4
		Magnetic circuit with air gap	https://www.youtube.com/watch?v=-20xPbm71WY
		Farady's Law	https://www.youtube.com/watch?v=del8cJiCKEo
		Fleming's rule	https://www.youtube.com/watch?v=F_7SNQfHtTQ
		Lenz's law	https://www.youtube.com/watch?v=EYYNRubHIno
	Electri cal Engine	Classific ation of Materials	https://www.youtube.com/watch?v=PBRacxU6nBY

ering Materi	Magnetic Materials	https://www.youtube.com/watch?v=zFdf2SxHz6s
als	Ferous and Non-	https://www.youtube.com/watch?v=AqSQCu3lc3Q
	ferous materials	
	Conducti ng	https://www.youtube.com/watch?v=xe7ux2i0srQ
	Materials Energy Band	https://www.youtube.com/watch?v=jJf7tqN4OmA
Electri	diagram  Constructi	https://www.youtube.com/watch?v=NiHPu5PltCY&t=98
cal Machi	on, Classifica	9s https://www.youtube.com/watch?v=CSnTL9ndyis
nes	tion & Working Principle	, , , , , , , , , , , , , , , , , , , ,
	of DC machine,	
	Transfor mer,	https://www.youtube.com/watch?v=NkRk_xaRwjg
	Induction machine	https://www.youtube.com/watch?v=dZyO5gcWP- o&list=PLLQiBbMXygz7zALKpbP87g4QaS9YGesZ5
	Synchron ous machine.	https://www.youtube.com/watch?v=caVDiKY5AKE&list= PLYJnm0x0HwNvFIvP2OEppMCv9Dt1X3SS2
	Stepper motor	https://www.youtube.com/watch?v=dYR3quvIVZU
	permanen t magnet motor	https://www.youtube.com/watch?v=dYR3quvIVZU
	universal motor& servomot	https://www.youtube.com/watch?v=gTslo6k_r8M
	ors	

	Subject Name- Basic Mechanical Engineering							
Code	Course Paper Tittle Code				Links			
	Basic Mechanical Engineering		Engineering Material		https://www.youtube.com/watch?v=yVS4hccf6xo			
			Mechanical Properties and Tests		https://www.youtube.com/watch?v=c6woVjcC-q8			
			Heat Treatment		https://www.youtube.com/watch?v=bnmlu2if7Wg			
			Thermodynamics		https://www.youtube.com/watch?v=9kiaOhMSpSc			
			I.C. Engine		https://www.youtube.com/watch?v=K-Z5jAHJdlc			
			Air Compressor		https://www.youtube.com/watch?v=TAo5c2fbXOQ			
			Hydro Dynamics		https://www.youtube.com/watch?v=F7L4ZCWtp94			
			Power Transmission		https://www.youtube.com/watch?v=XTogm8Ui1Ds			
			Renewable Sources of Energy		https://www.youtube.com/watch?v=oIPqmTBY9Lg			