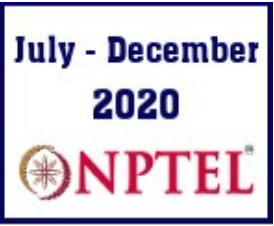
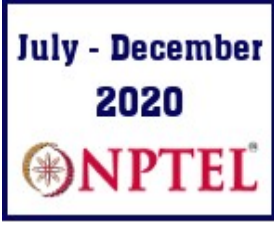
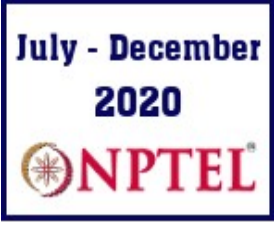
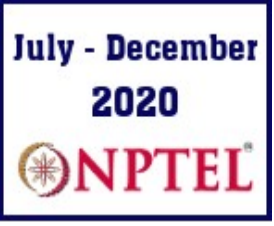
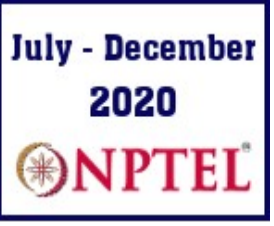
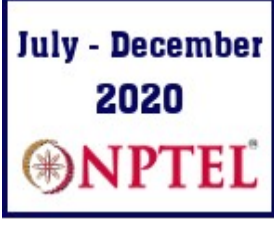
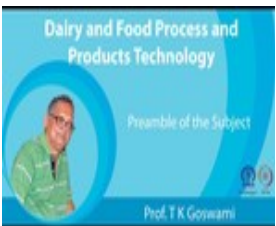
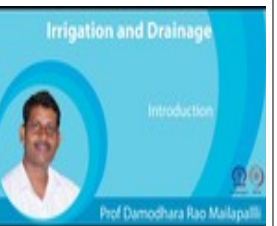
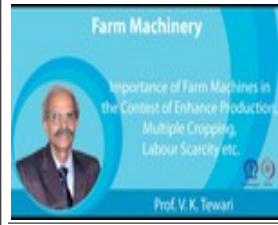


AEROSPACE ENGINEERING

Advance Aircraft Maintenance	Aircraft Stability and Control	Aircraft Structures - I	Engineering Thermodynamics	Introduction to Aerospace Engineering
 101104075	 101104062	 101105084	 101104063	 101101079
Introduction to Airbreathing Propulsion	Introduction to Aircraft Design	Introduction to Ancient Indian Technology	Introduction to CFD	Space Flight Mechanics
 101104084	 101101083	 101104065	 101105085	 101105083
UAV Design - Part II				
 101104083				

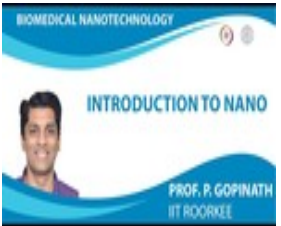
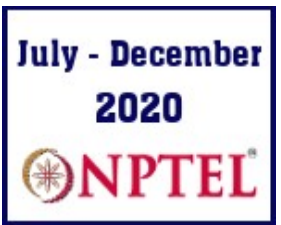
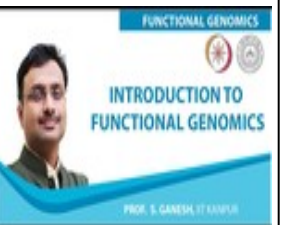
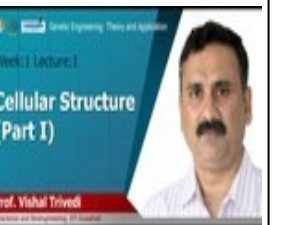
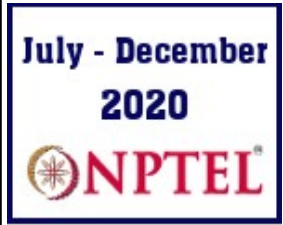
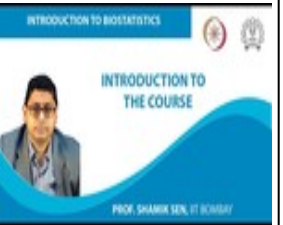
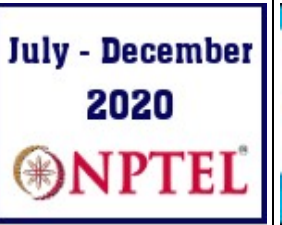
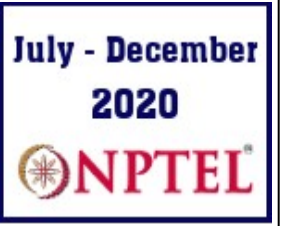
AGRICULTURE

Fundamentals of Food Process Engineering	Dairy and Food process and products technology	Thermal Operations in Food Process Engineering: Theory and Applications	Irrigation and Drainage	Organic Farming for Sustainable Agricultural Production
 <u>126105011</u>	 <u>126105013</u>	 <u>126105018</u>	 <u>126105010</u>	 <u>126105014</u>
Farm Machinery	Thermal Processing of Foods			
 <u>126105009</u>	 <u>126103017</u>			

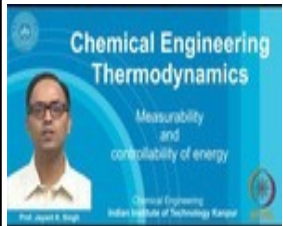
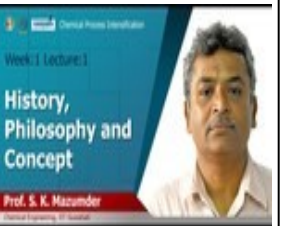
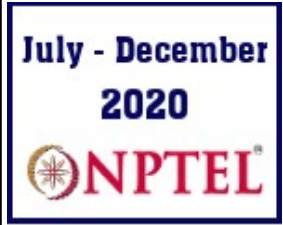
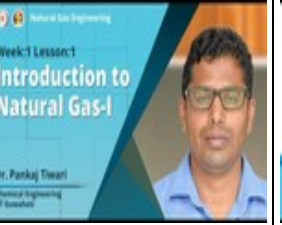
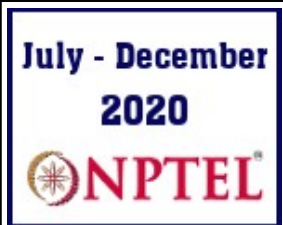
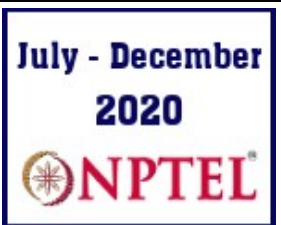
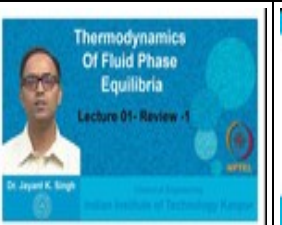
ARCHITECTURE

Building Materials and Composites	Environmental Soil Chemistry	Structural System in Architecture	Urban Landuse and transportation planning	Architectural Acoustics
July - December 2020  124105013	July - December 2020  124105014	July - December 2020  124105015	July - December 2020  124105016	 124105004
Contemporary Architecture and Design	Disaster Recovery And Build Back Better	Housing Policy & Planning	Principles and applications of building science	Role of Craft and Technology in Interior - Architecture
 124107005	 124107010	 124107001	 105107156	 124107006
Urban governance and Development Management (UGDM)	Visual Communication Design for Digital Media			
 124107007	 124107002			

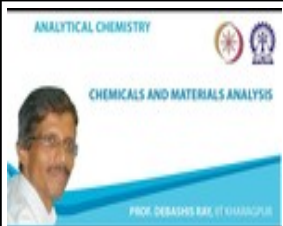
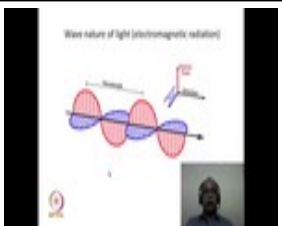
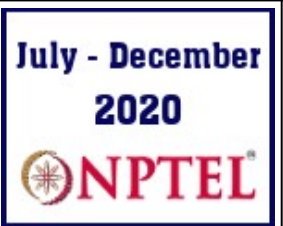
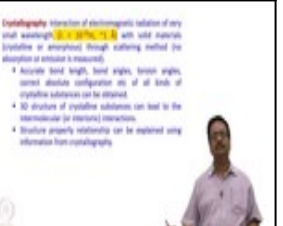
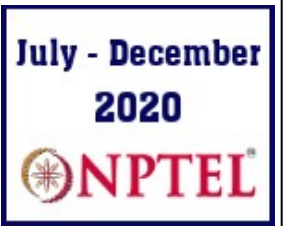
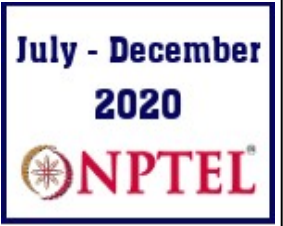
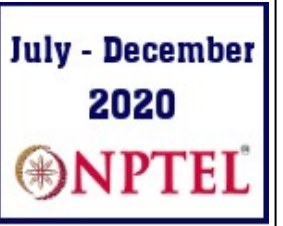
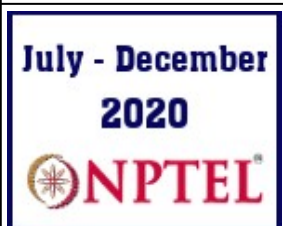
BIOTECHNOLOGY

Animal Physiology	Biomedical nanotechnology	Biomicrofluidics	Bioreactors	Computer Aided Drug Design
				
102104058	102107058	102105068	102106053	102106070
Drug Delivery: Principles and Engineering	Experimental Biotechnology	Functional Genomics	Fundamentals of micro and nanofabrication	Genetic Engineering: Theory And Application
				
102108077	102103083	102104056	102108078	102103074
Immunology	Industrial Biotechnology	Introduction to Biostatistics	Introduction to Developmental Biology	Introduction to mechanobiology
				
102105083	102105058	102101056	102106084	102101058
Introduction to Proteogenomics	Introduction To Proteomics	Nanotechnology in Agriculture	Plant Cell Bioprocessing	Plant Developmental Biology
				
102101076	102101055	102104069	102106080	102107075
Principles Of Downstream Techniques In Bioprocess	Tissue engineering	Transport Phenomena in Biological Systems	Wildlife Conservation	Wildlife Ecology
				
102106048	102106081	102106083	102104068	102104073

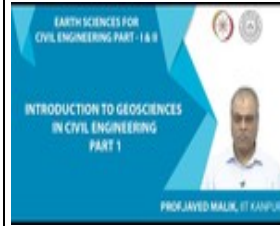
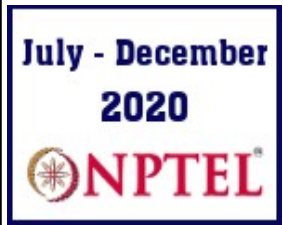
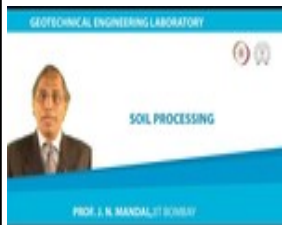
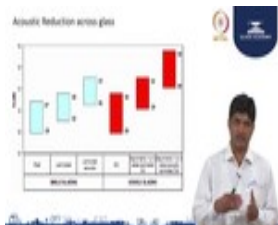
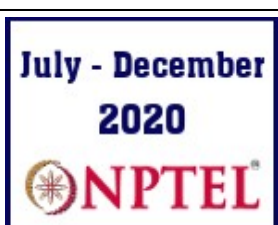
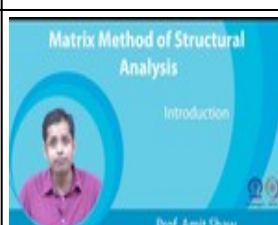
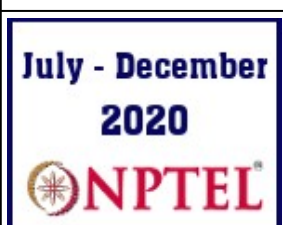
CHEMICAL ENGINEERING

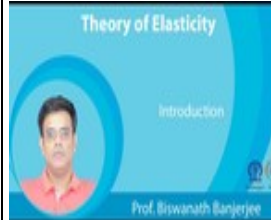
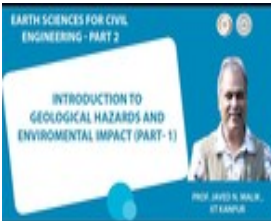
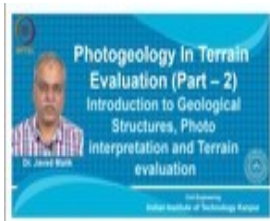
Chemical Engineering Thermodynamics	Chemical Process Control	Chemical Process Intensification	Chemical Process Safety	Chemical Reaction Engineering-I
 103104151	 103101142	 103103152	 103107156	 103103153
Colloids and Surfaces	Fluid and Particle Mechanics	Fluidization Engineering	Heat Transfer	Infrared spectroscopy for pollution monitoring
 105106204	 103106158	 103103132	 103105140	 103108139
Introduction to Polymer Physics	Mechanical Operation	Mechanical Unit Operations	Natural Gas Engineering	Phase equilibrium thermodynamics
 103103139	 103107123	 103103155	 103103140	 103105127
Plant Design and Economics	Polymers: concepts, properties, uses and sustainability	Technologies For Clean And Renewable Energy Production	Thermodynamics of Fluid Phase Equilibria	Unit operations of particulate matter
 103105166	 105106205	 103107157	 103104129	 103107127

CHEMISTRY AND BIOCHEMISTRY

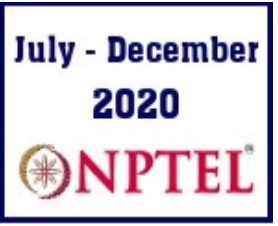
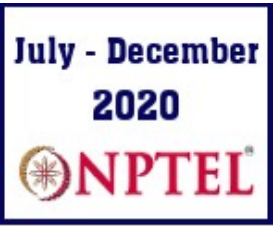
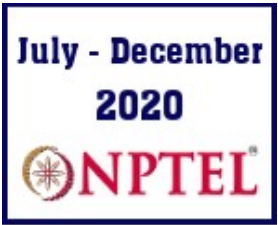
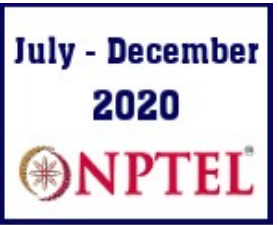
Analytical chemistry	Application of Spectroscopic Methods in Molecular Structure Determination	Basic Statistical Mechanics	Biophysical chemistry	Chemical Crystallography
 104105084	 104106075	 104101125	 104102009	 104106093
Co-Ordination Chemistry (Chemistry Of Transition Elements)	Introduction to Chemical Thermodynamics and Kinetics	Introduction to Polymer Science	Introductory Organic Chemistry I	Laser: Fundamentals and Applications
 104105033	 104106089	 104105124	 104106119	 104104085
Mechanisms in Organic Chemistry	Metals in Biology	One and two dimensional NMR Spectroscopy for chemists	Principles Of Organic Synthesis	Quantum Chemistry of Atoms and Molecules
 104101115	 104101116	 104108124	 104103110	 104101124
Quantum Mechanics and Molecular Spectroscopy	Reagents In Organic Synthesis	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Stereochemistry	
 104101126	 104103111	 104102113	 104105086	

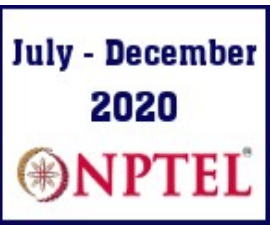
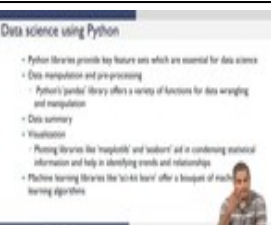
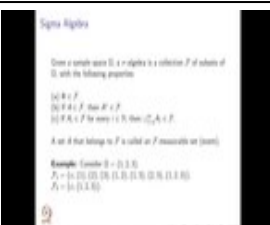
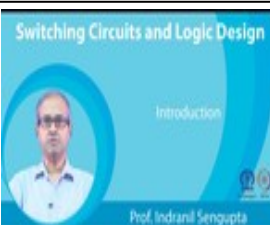
CIVIL ENGINEERING

Advanced Concrete Technology	Design of Masonry Structures	Design Of Reinforced Concrete Structures	Design of steel structures	Earth Sciences For Civil Engineering (Part - I)
				
105106176	105106197	105105105	105105162	105104152
Earthquake Resistant Design of Foundations	NOC:Environmental Engineering-Chemical Processes	Fluid Mechanics	Foundation Engineering	Geosynthetics Testing Laboratory
				
105107204	105107176	105103192	105105176	105101176
Geotechnical Engineering Laboratory	Glass in buildings : Design and applications	Glass Processing Technology	Global Navigation Satellite Systems And Applications	GPS Surveying
				
105101160	105106177	105106178	105107194	105107157
Integrated Waste Management for a Smart City	Introduction to Engineering Sesimology	Introduction to Multimodal Urban Transportation Systems (MUTS)	Matrix Method of Structural Analysis	Mechanics Of Materials
				
105105160	105108204	105105204	105105180	105106172
Municipal Solid Waste Management	Photogeology in Terrain Evaluation (Part - 1)	Project Planning & Control	Reinforced Concrete Road Bridges	Remote Sensing and GIS
				
105103205	105104167	105106149	105105165	105103193

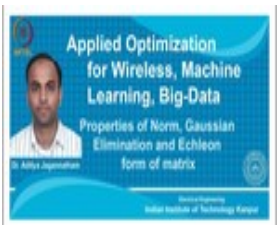
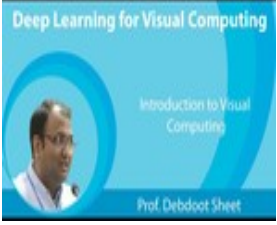
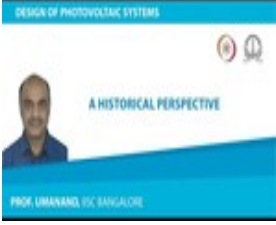
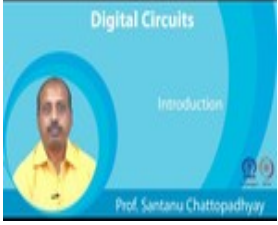
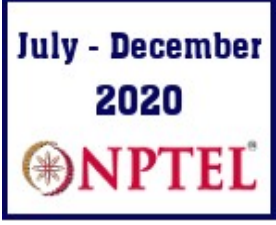
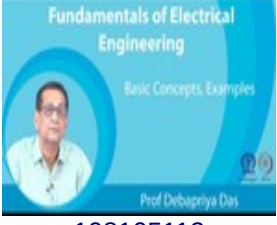
River Engineering	Soil Mechanics / Geotechnical Engineering - I	Strength Of Materials	Structural analysis-I	Theory of Elasticity
 105103204	 105105168	 105105108	 105105166	 105105177
NOC:Earth Sciences for Civil Engineering (Part 2)	Photogeology in Terrain Evaluation (Part 2)			
 105104156	 105104177			

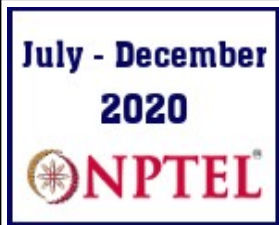
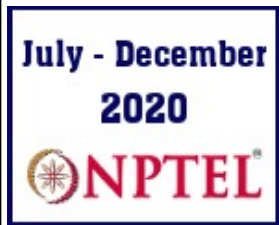
COMPUTER SCIENCE & ENGINEERING

Applied Natural Language Processing	Artificial Intelligence Search Methods For Problem Solving	Bandit Algorithm (Online Machine Learning)	Big Data Computing	C Programming and Assembly Language
				
106106211	106106126	110101145	106104189	106106210
Cloud computing	Computer architecture and organization	Computer Graphics	Data Base Management System	Data Science for Engineers
				
106105167	106105163	106103224	106105175	106106179
Data Structure and algorithms using Java	Deep Learning	Deep Learning for Computer Vision	Demystifying Networking	Design and analysis of algorithms
				
106105225	106105215	106106224	106101209	106106131
Discrete Mathematics	Google Cloud Computing Foundation Course	Hardware modeling using verilog	Introduction to algorithms and analysis	Introduction To Haskell Programming
				
106106183	106105223	106105165	106105164	106106137
Introduction to Industry 4.0 and Industrial Internet of Things	Introduction to internet of things	Introduction to Machine Learning	Introduction to Operating Systems	Introduction to Programming in C
				
106105195	106105166	106106139	106106144	106104128

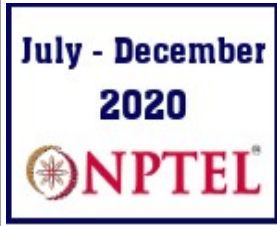
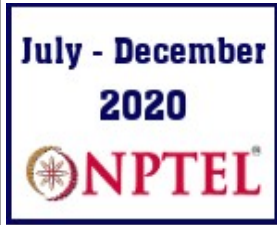
Object Oriented Analysis and Design	Object Oriented System Development using UML, Java and Patterns	Practical Machine Learning with Tensorflow	Problem solving through Programming In C	Programming in C++
				
<u>106105153</u>	<u>106105224</u>	<u>106106213</u>	<u>106105171</u>	<u>106105151</u>
Programming in Java	Programming, Data Structures And Algorithms Using Python	Python for Data Science	Reinforcement Learning	Scalable Data Science
				
<u>106105191</u>	<u>106106145</u>	<u>106106212</u>	<u>106106143</u>	<u>106105186</u>
Social Networks	Software Engineering	Software Testing	Switching Circuits and Logic Design	The Joy of Computing using Python
				
<u>106106169</u>	<u>106105182</u>	<u>106101163</u>	<u>106105185</u>	<u>106106182</u>

ELECTRICAL ENGINEERING

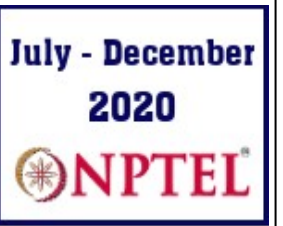
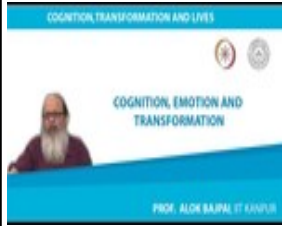
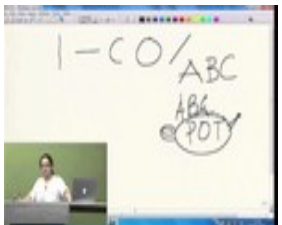
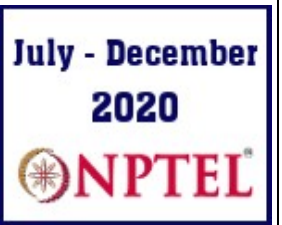
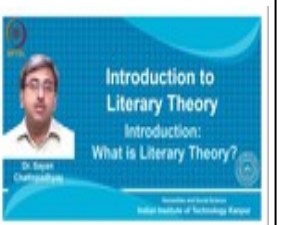
Advances in UHV Transmission and Distribution	An Introduction to Coding Theory	Analog communication	Analog Electronic Circuit	Applied Electromagnetics For Engineers
				
108108099	108104092	117105143	108102112	108104099
Applied Optimization for Wireless, Machine Learning, Big Data	Basic Electrical Circuits	Basics of software defined Radios and Practical Applications	Computer Aided Power System Analysis	Control engineering
				
108104112	117106108	108107107	108107127	108106098
Control systems	DC Microgrid and Control System	Deep Learning For Visual Computing	Design of photovoltaic systems	Digital Circuits
				
107106081	108107143	108105103	117108141	108105113
Digital Image Processing	Digital VLSI Testing	Electrical Distribution System Analysis	Electrical Equipment and Machines: Finite Element Analysis	Electrical Machines - I
				
117105135	117105137	108107112	108101167	108105155
Fabrication Techniques for MEMs-based sensors : clinical perspective	Fiber Optic Communication Technology	Fundamentals of Electrical Engineering	Image Signal Processing	Information Theory
				
108108113	108106167	108105112	108106168	108108168

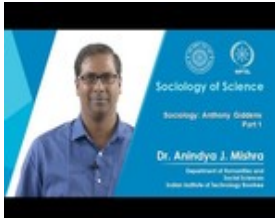
Introduction to Smart Grid	Introduction to Wireless and Cellular Communications	Introductory Neuroscience & Neuro Instrumentation	Linear System Theory	Microelectronics: Devices To Circuits
				
108107113	106106167	108108167	108106150	108107142
Microwave Engineering	Microwave Theory and Techniques	Millimeter Wave Technology	Op-Amp Practical Applications: Design, Simulation and Implementation	Peer To Peer Networks
				
108103141	108101112	117105139	108108114	108104167
Power Electronics	Power system analysis	Power System Protection	Power System Protection and Switchgear	Principles of Signal Estimation for MIMO/ OFDM Wireless Communication
				
108102145	117105140	108105167	108107167	117104118
Probability Foundations for Electrical Engineers	Semiconductor Devices and Circuits	Introduction to Embedded System Design	Fundamentals of Electric vehicles: Technology & Economics	
				
108106083	108108112	108102169	108106170	

ENGINEERING DESIGN

Design, Technology and Innovation	Ergonomics Workplace Analysis	Functional and Conceptual Design	Innovation by Design	Introduction to Robotics
				
<u>107101088</u>	<u>107103085</u>	<u>107106089</u>	<u>107101086</u>	<u>107106090</u>
System design for sustainability	Understanding Design	Understanding Ethnography		
				
<u>107103081</u>	<u>107101087</u>	<u>107101091</u>		

HUMANITIES AND SOCIAL SCIENCES

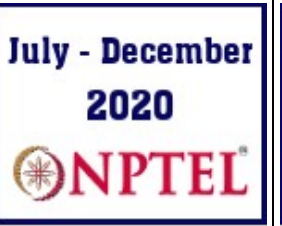
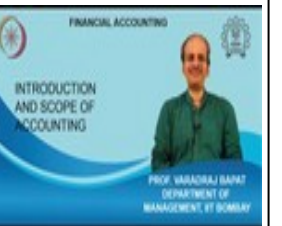
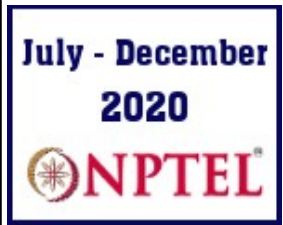
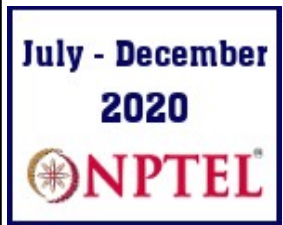
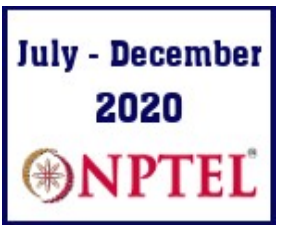
Applied Linguistics	Appreciating Carnatic Music	Appreciating Linguistics: A typological approach	Body language: Key to professional Success	Classical Sociological Theory
				
109106114	109106087	109106159	109107154	109106180
Cognition, Transformation and Lives	Consumer Psychology	Developing Soft Skills and Personality	Development Research Methods	Ecology and Society
				
109104121	109103136	109104107	109103153	109103123
Educational leadership	Elements of Visual Representation	Energy Economics And Policy	Entrepreneurship and IP strategy	Feminist Writings
				
109105122	109104088	109106161	109105176	109106146
Film Appreciation	Gender and literature	German - I	German - II	Great Experiments in Psychology
				
109106086	109103122	109106166	109106165	109105118
Health Research Fundamentals	History of English Language and Literature	Intermediate Level of Spoken Sanskrit	Introduction To Japanese Language And Culture	Introduction To Literary Theory
				
109106095	109106124	109105169	121104005	109104135

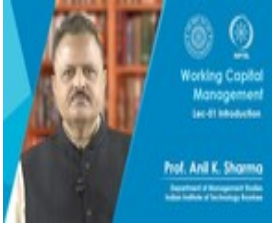
Introduction to Western Political Thought	Managing Intellectual Property in Universities	Modern Indian Art From the Colonial Period to the Present	Patent Drafting for Beginners	Patent Law for Engineers and Scientists
 July - December 2020 109103176	What is intellectual property (IP)? • There are different kinds of IPR, for e.g., inventions are protected by patents • Literary works are protected by copyright • IP is different from IPR  July - December 2020 109106148	 July - December 2020 109104176	 109106128	 110106081
Patent Search for Engineers and Lawyers	Poetry	Postmodernism in Literature	Science, Technology and Society	Short Fiction in Indian Literature
 110105140	 July - December 2020 109106176	 109106130	 109103121	 109106138
Sociological Perspectives on Modernity	Sociology of Science	Soft skills	Technical English for Engineers	Text, Textuality and Digital Media
 109103133	 109107131	 109107121	 109106094	 109102156
The Popular Gothic Novel	The Psychology Of Language	Water, Society and Sustainability		
 July - December 2020 109106177	 109103152	 109105136		

LAW

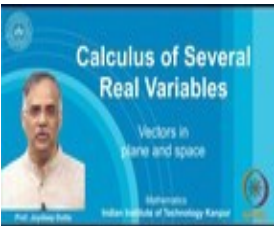
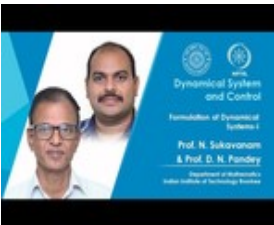
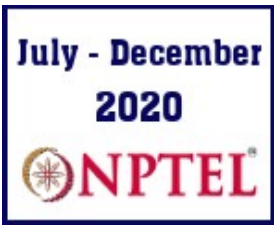
Constitution of India and Environmental Governance: Administrative and Adjudicatory Process	Constitutional Studies	Right to Information and Good Governance
July - December 2020  129106002	July - December 2020  129106003	July - December 2020  129106001

MANAGEMENT

Business Analytics & Data Mining Modeling Using R Part II	Business Analytics & Text Mining Modeling Using Python	Cost Accounting	Customer Relationship Management	Decision Support System for Managers
				
110107095	110107129	110101132	110105145	110105147
Decision-Making Under Uncertainty	Design Thinking - A Primer	Economics of Health and Health Care	Ethics in Engineering Practice	Financial Accounting - IITB
				
110106134	110106124	110104095	110105097	110101131
Financial accounting - IITMandi	Gender justice and workplace security	Human resource development	Industrial Safety Engineering	Innovation, Business Models and Entrepreneurship
				
110106147	110105080	109105121	110105094	110107094
International Business	Introduction to Marketing Essentials	Knowledge Management	Leadership	Management Accounting
				
110107145	110107147	110105076	122105021	110107127
Management Information System	Managerial Economics	Managing Services	Manufacturing Strategy	Marketing Management-I
				
110105148	110101005	110104065	110107116	110104068

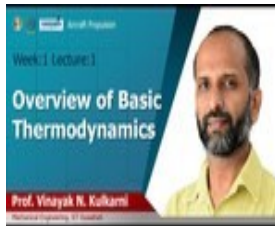
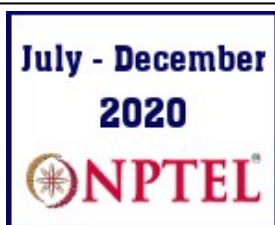
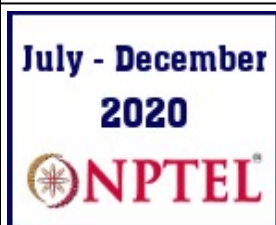
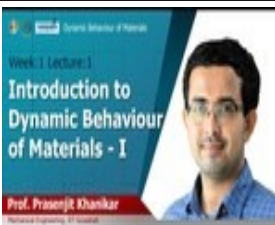
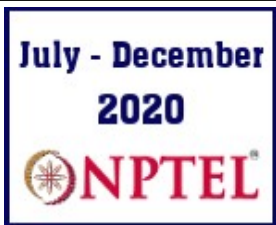
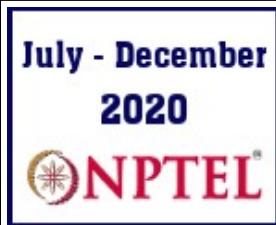
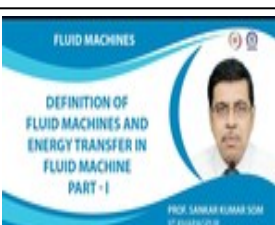
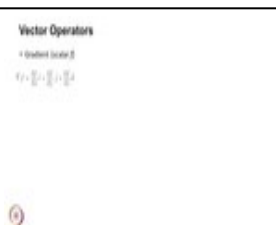
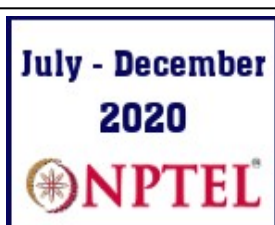
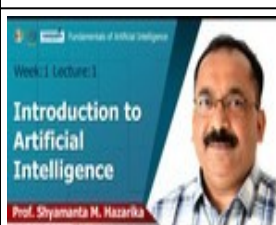
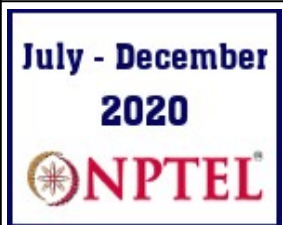
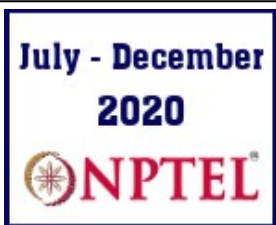
Marketing research and analysis	Organization Development and Change in 21st Century	Organizational Behaviour	Path Integral Methods in Physics & Finance	Principles of Management
 MARKETING RESEARCH AND ANALYSIS INTRODUCTION TO MARKETING RESEARCH PROF. J.K. NAYAK, IIT ROORKEE 110107080	 July - December 2020 110101146	 July - December 2020 110106145	 July - December 2020 110107146	 July - December 2020 110105146
Project management for managers	Soft Skills For Business Negotiations And Marketing Strategies	The Future of Manufacturing Business: Role of Additive Manufacturing	Training of Trainers	Working Capital Management
 PROJECT MANAGEMENT FOR MANAGERS INTRODUCTION OF PROJECT MANAGEMENT PROF. MUNISH KUMAR BAJAJ, IIT ROORKEE 110107081	 Soft Skills for Business Negotiations and Marketing Strategies Introduction to the Course Prof. Uttam Kumar Banerjee 110105090	 July - December 2020 110106146	 Training of Trainers Introduction to Training - I Prof. Sanjosh Bangnekar Department of Management Studies Indian Institute of Technology Bombay 110107126	 Working Capital Management Lec-01 Introduction Prof. Anil K. Sharma Department of Management Studies Indian Institute of Technology Bombay 110107093

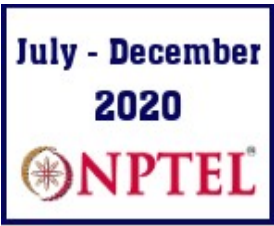
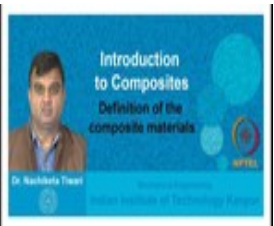
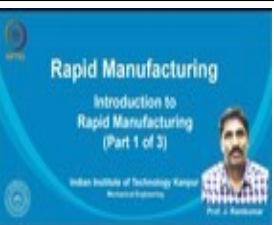
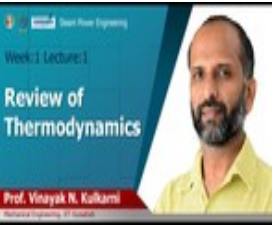
MATHEMATICS

A basic course in number theory	Algebra - I	Calculus Of One Real Variable	Calculus Of Several Real Variables	Complex Analysis
 July - December 2020 111101137	 July - December 2020 111106137	 109104124	 111104125	 July - December 2020 111106141
Computational Commutative Algebra	Computational Number Theory and Algebra	Constrained and unconstrained optimization	Dynamical System and Control	Engineering Mathematics - I
 July - December 2020 111106138	 July - December 2020 111104138	 111105100	 111107118	 111105121
Essential Mathematics for Machine Learning	Groups: Motion, symmetry and puzzles	Integral Transforms and their Applications	Introduction to Abstract and Linear Algebra	Introduction to Abstract Group Theory
 July - December 2020 111107137	 111106114	 111102129	 111105112	 111106113
Introduction to Fuzzy Set Theory, Arithmetic and Logic	Introduction to Methods of Applied Mathematics	Introduction to R Software	Laplace Transform	Linear Algebra
 111102130	 111102133	 111104100	 July - December 2020 111106139	 July - December 2020 111104137
Mathematical Finance	Mathematical Modelling: Analysis and Applications	Mathematical Portfolio Theory	Matrix Analysis with Applications	Measure Theory
 111103126	 111107113	 111103137	 111107112	 July - December 2020 111106140

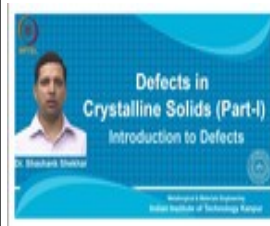
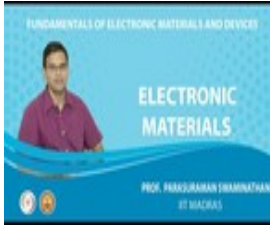
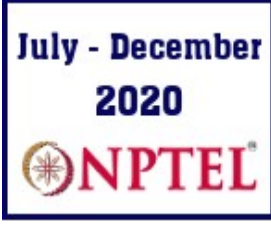
Non-parametric Statistical Inference	Numerical methods	Operations Research	Real Analysis I	Regression Analysis
 July - December 2020 111102143	 111107105	 111107128	 July - December 2020 111106142	 111105042
Scientific Computing using Matlab				
 July - December 2020 111102137				

MECHANICAL ENGINEERING

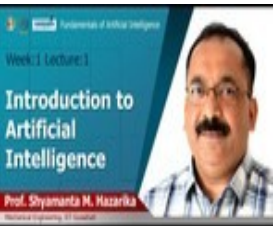
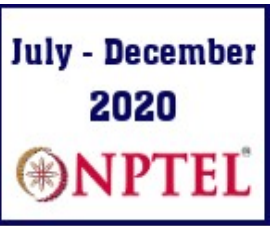
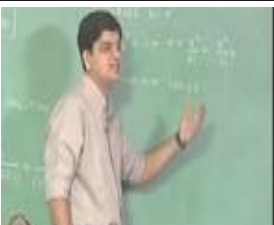
Advanced Fluid Mechanics	Advanced Machining Processes	Advances in welding and joining technologies	Aircraft Propulsion	Automation in Manufacturing
 112105218	 112103202	 112103244	 112103281	 112103293
Basics Of Finite Element Analysis-I	Basics of Materials Engineering	BioMEMS And Microfluidics	Computational Continuum Mechanics	Computational Fluid Dynamics using Finite Volume Method
 112104193	 112106293	 112104181	 112103296	 112106294
Concepts of Thermodynamics	Dynamic Behaviour Of Materials	Engineering drawing and computer graphics	Engineering Metrology	Finite Element Method: Variational Methods to Computer Programming
 112105266	 112103278	 112105294	 112104250	 112103295
Fluid dynamics and turbomachines	Fluid Machines	Foundation of Computational Fluid Dynamics	Foundations of Cognitive Robotics	Fundamentals Of Artificial Intelligence
 112106200	 112105206	 112106186	 112104293	 112103280
Fundamentals of Compressible Flow	Fundamentals of Conduction and Radiation	Fundamentals of Convective Heat Transfer	Fundamentals of manufacturing processes	Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations
 112103294	 112103276	 112103297	 112107219	 112107248

Heat Exchangers: Fundamentals and Design Analysis	High Performance Computing for Scientists and Engineers	Introduction to Composites	Introduction to Mechanical Vibration	Manufacturing Systems Technology - Part I
 112105248	 112105293	 112104229	 112107212	 112104188
Manufacturing Systems Technology - Part II	Mathematical Modeling Of Manufacturing Processes	Mechanical Measurement Systems	Mechanism And Robot Kinematics	Principle of Hydraulic Machines and System Design
 112104189	 112103273	 112107242	 112105236	 112103249
Principles of Metal Forming Technology	Principles of Vibration Control	Product Design and Development	Rapid Manufacturing	Refrigeration and air-conditioning
 112107250	 112104211	 112107217	 112104265	 112107208
Robotics	Selection Of Nano materials For Energy Harvesting And Storage Application	Solid Mechanics	Steam Power Engineering	Theory of Production Processes
 112105249	 112107283	 112102284	 112103277	 112107239
Work System Design	Engineering Fracture Mechanics	Engineering Mechanics		
 112107249	 112106065	 112106286		

METALLURGY AND MATERIAL SCIENCE

Advanced Materials and Processes	Aqueous Corrosion and Its Control	Corrosion - Part II	Defects in Crystalline Solids (Part-I)	Elementary Stereology for Quantitative Metallography
 113105081	 113101098	 113104089	 113104081	 113106081
Energy conservation and waste heat recovery	Fundamentals of electronic device fabrication	Fundamentals Of Material Processing-I	Ironmaking and Steelmaking	Physics Of Materials
 112105221	 113106065	 113104073	 113105098	 113106039
Powder Metallurgy	Structural Analysis of Nanomaterials	Thermo-Mechanical And Thermo-Chemical Processes	Welding of Advanced High Strength Steels for Automotive Applications	X-ray Crystallography & Diffraction
 113106098	 113107081	 113107091	 113106082	 112106227

MULTI-DISCIPLINARY

Designing learner-centric e-learning in STEM disciplines	Ecology and Environment	Fundamentals Of Artificial Intelligence	Introduction to Research	Learning Analytics Tools
				
<u>127101013</u>	<u>127106004</u>	<u>112103280</u>	<u>121106007</u>	<u>106101224</u>
Neuroscience of Human Movements	Numerical Methods for Engineers	Stress Management	Teaching And Learning in General Programs: TALG	
				
<u>127106001</u>	<u>127106019</u>	<u>121105009</u>	<u>127108015</u>	

OCEAN ENGINEERING

Dynamics of
Ocean Structures



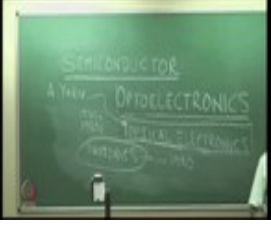
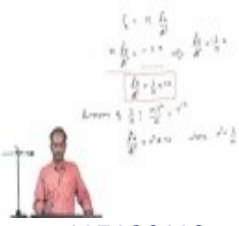
[114106038](#)

Computer Methods
Of Structural
Analysis Of Offshore
Structures

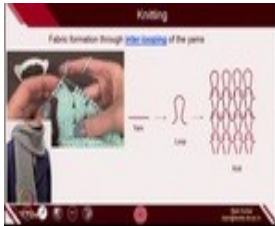


[114106045](#)

PHYSICS

Computational Physics	Experimental Physics I	Introduction to Classical Mechanics	Nuclear and Particle Physics	Numerical Methods And Simulation Techniques For Scientists And Engineers
General Layout Well laid out programs are much more readable. You are more likely to make those mistakes & much more likely to spot them! Eg. 1.00 is clearer than 1.0 Further 3000 codes can start from any column, while 177 starts from column 7 A line in Fortran may have 132 characters. Use '!' to comment between two lines  115106118	 115105110	July - December 2020  115106123	 115103101	 115103114
Semiconductor Optoelectronics	Solar Energy Engineering and Technology	Solar Photovoltaics Fundamentals, Technology And Applications	Solid State Physics	Theoretical Mechanics
 115102103	July - December 2020  115103123	 115107116	 115105099	 115103115
Waves and Oscillations				
 115106119				

TEXTILE ENGINEERING

Principles of Combing, Roving preparation & Ring spinning	Science and Technology of Weft and Warp Knitting	Science of Clothing Comfort	Technical Textiles	Textile Finishing
 116102055	 116102056	 116102047	 116102057	 116102054
Yarn manufacture I : Principle of Carding and Drawing				
 116102048				