| Subject Name- Hydraulics & Hydraulic Machines | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-2101 | Hydraulics & Hydraulic Machines | 2101 | INTRODUCTION | https://youtu.be/iTanaNwMDKo?list=PL9RcWoqXmzaLnlGN39w2-1jyFyI_ALVa3&t=3 |
| | | | Open channel flow part 1 | https://youtu.be/X_Gt4-q8wLs |
| | | | Open channel flow part 2 | https://youtu.be/A4EJyKq5Srs?t=1 |
| | | | Properties of fluid mech. | https://youtu.be/sA99mw3D2Ds?t=1 |
| | | | Flow of liquid through pipes | https://youtu.be/S-oHA7sDyJU?t=1 |
| | | | Measurements of liquid pressure in pipes | https://youtu.be/GGqKLJ0EzwM?t=10 |
| | | | Flow measuring devices | https://youtu.be/gByrUkZUnKo?t=3 |
| | | | Hydraulic machines | https://youtu.be/zu3nP0dTLso?t=5 |
| | | | Hydrostatic pressure | https://youtu.be/C0ujLqKPWew?t=3 |
| | | | Types of fluid flow | https://youtu.be/q0WG__VV8so?t=73 |

| Subject Name- SURVEYING -I | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-2102 | Surveying I | 2102 | INTRODUCTION | https://youtu.be/gI-A3vViKQU?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW&t=1 |
| | | | Linear Measurement & Chain Survey Part A | https://youtu.be/1UqHJJQ2HR8?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW&t=2 |
| | | | CHAIN SURVEY | https://youtu.be/2oFNqesdMlg?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW&t=1 |
| | | | COMPASS SURVEY | https://youtu.be/8XlekeucMDw?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW |
| | | | LEVELLING | https://youtu.be/GOIX45UseLU?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW |
| | | | CONTOURING | https://youtu.be/A6EXFvwuw24?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW |
| | | | Error in Measurements(Law of Weight & M.P.V) | https://youtu.be/nXRFIT8LKTg?list=PLOzrLH8gDdTaej5I1GKIATUWh0AuI9zgW&t=19 |
| | | | AREA AND VOLUME CALCULATION | https://youtu.be/e0-kw_zKnsg?t=1 |
| | | | Contouring area and volume | https://youtu.be/A6EXFvwuw24?t=306 |
| | | | Calculation of area and volume curve | https://youtu.be/9-VkLHHiDs0?t=3 |
| | | | Area calculation cross staff survey | https://youtu.be/5O_cj8yK0Pc?t=3 |
| | | | Leveling example | https://youtu.be/RbfEVXM7ET4?t=2 |
| | | | Correction of local attraction | https://youtu.be/JvOphyhwV44?t=3 |
| | | | Surveying most imp question | https://youtu.be/Jkj5PJfUcRc?t=4 |

| Subject Name- MECHANICS OF STRUCTURE | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-2103 | MOS | 2103 | Simple Stress and Strain (Lecture 1) : Introduction | https://youtu.be/YyRs1UrHHDQ?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN&t=62 |
| | | | Simple Stress and Strain Principle of Superposition | https://youtu.be/qGdlQUNcssQ?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN&t=3 |
| | | | Bending stress in beam | https://youtu.be/H_4COoFxEiA?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN&t=1 |
| | | | SFD and BMD for Cantilever Beam | https://youtu.be/5xhtbt9LSSM?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN&t=20 |
| | | | SFD and BMD for Overhang Beam | https://youtu.be/SmlnpMgHZSg?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN |
| | | | Axially and Eccentrically Loaded Column Direct and Bending Stress | https://youtu.be/carD-fWiPLE?list=PLNUrArhKbyAK-p19pF3nSQa3EUqDv9OmN&t=4 |
| | | | ELASTIC CONSTANT | https://youtu.be/Ama7TmoB6Bk?t=2 |
| | | | PRINCIPLE OF STRESS | https://youtu.be/C207JS-HM4Q?t=3 |
| | | | MOMENT OF INERTIA | https://youtu.be/-ycm-87c50g?t=93 |
| | | | BENDING STRESSES IN BEAM | https://youtu.be/xGPGrS-k6eo?t=58 |
| | | | COLUMNS LECTURE 1 | https://youtu.be/89dr7hJM6Nc?t=5 |
| | | | COLUMNS LECTURE 2 | https://youtu.be/a5D0oLvFvNc?t=2 |
| | | | COLUMNS LECTURE 3 | https://youtu.be/gO-aj46A55g?t=3 |

| **Subject Name-** TRANSPORTATION ENGINEERING -1 | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | RAILWAY ENGINEERING | https://youtu.be/4T4JDmzXaVM?t=33 |
| PCE-2104 | TRANSPORTATION ENGINEERING -1 | 2104 | INTRDUCTION | https://youtu.be/McCKn5txwlQ?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=2 |
| | | | TYPES OF GAUGES | https://youtu.be/X8zWlXcA0xw?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=1 |
| | | | CONING OF WHEEL | https://youtu.be/7jgHaZBzXm0?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=2 |
| | | | SLEEPERS | https://youtu.be/xnBj6DB28zI?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=1 |
| | | | SUPER ELEVATION | https://youtu.be/Bk08KmnonNc?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=2 |
| | | | RAILWAY GEOMETRIC DESIGN | https://youtu.be/JAVaEz-xTH8?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=2 |
| | | | CANT DEFFICIENCY | https://youtu.be/MoluvPCdOCs?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=1 |
| | | | NEGETIVE SUPERELEVATION | https://youtu.be/wvH9g3YsWME?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=11 |
| | | | TRANSITION CURVE | https://youtu.be/FNM-YdJbygM?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA |
| | | | GRADE COMPANSATION | https://youtu.be/SRH45eMqSCw?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA |
| | | | Complete Revision of Railway Engineering | https://youtu.be/fl4pVMnB4cM?list=PLbCDLPSRuhSPwEqI0ZPho3CoDN_RIWDeA&t=1 |
| | | | Subgrade and Survey Work | https://youtu.be/xC6BfssHpPM?t=45 |
| | | | SLEEPERS AND FASTENERS | https://youtu.be/D5hzRaru54g?list=RDCMUCEzATllBMthNRZTbvzayzYQ&t=4 |
| | | | POINT AND CROSSING | https://youtu.be/AjWmO6s0008?t=27 |
| | | | STATION AND YARDS | https://youtu.be/Q6SoBuL03xY?t=3 |

| Subject Name- MATERIAL TECHNOLOGY | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-2105 | MATERIAL TECHNOLOGY | 2105 | Introduction and classification of material | https://youtu.be/3P369snsmpc?t=50 |
| | | | Introduction of brick masonry | https://youtu.be/3XGt-p-hpdU?t=42 |
| | | | Types of brick bond in masonry | https://youtu.be/Z_jieunkTtw?t=29 |
| | | | Building material | https://youtu.be/yK9963NIlQY?t=44 |
| | | | Comparison b/w cement and lime | https://youtu.be/-fHjSvVrsgs?t=29 |
| | | | Lime material | https://youtu.be/Hb1xT-CYesc?t=107 |
| | | | Cement material uses and purposes | https://youtu.be/04PleMBm_5A?t=1 & https://youtu.be/75v09DHaUjY?t=3 |
| | | | Aggregate | https://youtu.be/AR_IFrT1BMA?t=2 |
| | | | mortar | https://youtu.be/Xp2v-ODrEd0?t=2 |
| | | | concrete | https://youtu.be/2Y-hJjeHKGA?t=2 |
| | | | timber | https://youtu.be/ksCX-rwx31Q?t=8 |
| | | | Paint and varnishes | https://youtu.be/TNh5rPszCak?t=7 |
| | | | Metals(steel & aluminum) | https://youtu.be/D7heBv0HEl0?t=5 |
| | | | Other building material (Glass) | https://youtu.be/loCKY6kZM-U?t=1 |

| **Subject Name-** CIVIL Engineering DRAWING | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-2151 | CIVIL ENNG.DRAWING | 2151 | INTRODUCTION | https://youtu.be/pdbQvIbGd_4?t=5 |
| | | | LETTERING AND NUMBERING | https://youtu.be/onJIaSAkiEs?t=3 |
| | | | Principle of Planning of Residential | https://youtu.be/mM_HkSm_wKY?t=43 |
| | | | PRINCIPLE OF BUILDING DRAWING | https://youtu.be/8KM7sJwD2D8?t=2 |
| | | | BUILDING BYE LAWS | https://youtu.be/42TqQC5XbN8?t=60 |
| | | | PLAN, SECTION & ELEVATION OF BUILDINGS | https://youtu.be/ecTk6szWBkg?t=125 |
| | | | PLAN, SECTION & ELEVATION OF BUILDINGS | https://youtu.be/LeeguTosmHA?t=42 |
| | | | Glazed door and windows Flush door | https://youtu.be/VQ8hs8VtFQw?t=1 |
| | | | LINTEL AND ARCHES | https://youtu.be/CD2QOsa1RMc?t=46 |
| | | | Plan and Cross Section of Dog legged stair | https://youtu.be/APhVFtrQm5k?t=6 |
| | | | Plan and Cross Section of open well stair. | https://youtu.be/SN4nnHDMHCs?t=6 |
| | | | Plan and Cross Section of Cantilever stair. | https://youtu.be/wOmwKa67XIM?t=3 |
| | | | Sectional Elevation of King Post truss. | https://youtu.be/e_PFn2ndWhU?t=2 |
| | | | Sectional Elevation of Queen Post truss. | https://youtu.be/kGlguOJMdZw?t=5 |
| | | | Sectional | https://youtu.be/XaoO3KN8xsM?t=3 |

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| | | | Elevation of Couple close roof. | |
| | | | Foundation Plan and Section of under load bearing structures. | https://youtu.be/O8cu3_Q_uTs?t=64 |
| | | | Foundation Plan and Section of Stepped foundation | https://youtu.be/DB_1tWwRB_Q?t=1 |
| | | | Sectional Plan, half Elevation and Cross Section of Arch Culvert | https://youtu.be/Jm3jGKIse40?t=3 |
| | | | Sectional Plan, half Elevation and Cross Section of Pipe Culvert | https://youtu.be/JIvx702nSfE?t=3 |
| | | | Sectional Plan, half Elevation and Cross Section of R.C.C. Slab Culvert | https://youtu.be/UDiKpoQ3BZg?t=2 |

| Subject Name- Construction Techniques & Quality Control | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| PCE-2152 | CTQC | 2152 | Definition & Classification of Buildings | https://youtu.be/uAt7a8dsxN4?t=7 |
| | | | necessity, procedure, site clearance etc. | https://youtu.be/1DajW9BG9DA?t=80 |
| | | | BACK FILLING AND PLINTH FILLING | https://youtu.be/rbH_QsK0img?t=2 |
| | | | Bearing capacity of foundation soil. | https://youtu.be/7MhDejIkB9Y?t=60 |
| | | | Foundation and its types | https://youtu.be/__qmgFcj-6A?t=5 |
| | | | Introduction of masonry | https://youtu.be/WiuhvXC0c0w |
| | | | Stone masonry bonding and its types rouble stone masonry | https://youtu.be/YbGs2bJQyCA?t=69 |
| | | | Floor Finishes for Different Areas | https://youtu.be/_i7-KJADRz0?t=1 |
| | | | What is VDF Flooring? Vacuum Dewatered Flooring | https://youtu.be/vLNmpK9YjL8 |
| | | | BRICK LINTEL USED IN CONSTRUCTION OF BUILDING | https://youtu.be/MBppPS6-x3E?t=31 |
| | | | TERMINOLOGY USED IN ARCHES | https://youtu.be/bwQgGmPJl7M?t=1 |
| | | | Doors | https://youtu.be/dFyxYwn663Q?t=2 |
| | | | types of door and windows | https://youtu.be/eZdyarpM2bA?t=1 |
| | | | windows | https://youtu.be/MWkXGZjOB3s?t=1 |
| | | | Stairs and staircases | https://youtu.be/V25plrWEH1k?t=4 |
| | | | Plastering and pointing comparison and difference | https://youtu.be/amfx5UJGokI?t=4 |
| | | | Types of roof | https://youtu.be/SzNYv2IKXBE?t=100 |

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| | | | Cracks - building maintenance - part 1 | https://youtu.be/GXBwCFvdE1w?t=116 |
| | | | CRACKS IN BUILDING (cause, types and remedy) | https://youtu.be/dgGl8GSSUPA?t=2 |
| | | | What is grouting Grouting in building Construction | https://youtu.be/SQofeXVUr0M?t=13 |
| | | | Demolishing of building | https://youtu.be/aGc4jas5Qao?t=42 |

| **Subject Name-** ESTIMATION AND COSTING -1 | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | |
| | | | | |
| PCE-2153 | ESTIMATION AND COSTING -1 | 2153 | Estimate \| Purpose of Estimate \| Types of Estimate (QSC) | https://youtu.be/FkNNxQYyW0c |
| | | | Preliminary Estimate \|\| Uses \|\| Types/Methods (QSC) | https://youtu.be/pvKjzKKpRjk |
| | | | Detailed Estimate \|\| Types \|\| Uses (QSC) | https://youtu.be/PI_fzYzdSRU |
| | | | Methods of Detailed Estimate \|\| Measurement Sheet \|\| Abstract Sheet (QSC) | https://youtu.be/RFOypgc9lsg |
| | | | Modes Of Measurement (QSC) | https://youtu.be/Wq7NAW_YHAM |
| | | | Difference between Plinth area, Carpet area & Built-up area (QSC) | https://youtu.be/uAaDjPvGTDo |
| | | | Difference between Revised Estimate & Supplementary Estimate (QSC) | https://youtu.be/T-Cl2WTQolA |
| | | | Preliminary Estimate Numerical \| Plinth Area Method \| | https://youtu.be/ngjaqk1YtW4 |
| | | | Rate Analysis \|\| Their Purposes \|\| Data Requirement \|\| (QSC) | https://youtu.be/bawmndYXXR8 |
| | | | How to Calculate P.C.C. Work Required Materials Quantity \|\| Numerical Solution \|\| (QSC) | https://youtu.be/74ygB04Hy3A |

| | | | | | |
|---|---|---|---|---|---|
| | | | Quantity Calculation of R.C.C. work Materials \|\| Solution Method \|\| (QSC) | https://youtu.be/ByNrIVOLqYo | |
| | | | How to Calculate R.C.C. Beam Required Materials Quantity \|\| Numerical Solution \|\| (QSC) | https://youtu.be/YFvfLvge91k | |
| | | | How to Calculate Quantity Of Bricks & Mortar in Brickwork \| Numerical Solution \| QSC | https://youtu.be/HazdCR4Kyy8 | |
| | | | Long wall and Short wall Method \| Numerical Solution Type-1 \| QSC | https://youtu.be/0R6gjYsKa-A | |
| | | | Long wall and Short wall Method \| Numerical Solution Type-2 \| QSC | https://youtu.be/4AeHKDnpNss | |
| | | | Centre Line Method \| Detailed Procedure \| QSC | https://youtu.be/cbV-lbd4N1Y | |
| | | | Bar Bending Schedule Basic Formulas \| Cutting Length Formulas \| BBS Calculation \| Quantity Surveying | https://youtu.be/-gP1Bwg6eOw | |
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| Subject Name- Geotechnical Engineering | | | | | |
|---|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | | **Links** |
| PCE-2154 | **Geotechnical Engineering** | PCE-2154 | Introduction | | https://youtu.be/HFJXxSJb9sI |
| | | | Origin and Definition of Soils | | https://youtu.be/m1a-7HsF1A0 |
| | | | Classification of Soils- I | | https://youtu.be/AXVeUENvuCk |
| | | | Classification of Soils- II | | https://youtu.be/pEp3j7TXAeA |
| | | | Soil constituents | | https://youtu.be/FWpehg7NZWk |
| | | | Soil Aggregate and Phase Relations | | https://youtu.be/LGBAVUf6TXU |
| | | | Classification of Soils and Sieve Analysis | | https://youtu.be/jUGCSsRXp3s |
| | | | Particle size analysis of fine grained soil | | https://youtu.be/3Uxw4SR6Mvo |
| | | | Soil water interaction | | https://youtu.be/uW3lnmL1e8E |
| | | | Compaction of soil | | https://youtu.be/l2EgTuxfEOc |
| | | | Permeability of soil and ground water flow | | https://youtu.be/jZ64x-Dmfes |
| | | | Coefficient of Permeability | | https://youtu.be/ryBrrxdQ8L4 |

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| | | | Seepage theory | | https://youtu.be/3PNprvCEIes |
| | | | Stress analysis in soil mass due to external loading | | https://youtu.be/EzbX8ZBdiN0 |
| | | | Consolidation of soil | | https://youtu.be/LCCJL3m4_6A |
| | | | Shear Strength of soil | | https://youtu.be/LViTxWFa7tQ |
| | | | Earth Pressure on Retaining Wall | | https://youtu.be/w7sEErR82eg |
| | | | Foundation engineering | | https://youtu.be/2ugkE5EvLZg |
| | | | Geotechnical investigation | | https://youtu.be/P0j_pt4BLS0 |

| Subject Name- Transportation Engineering-\|\| | | | | | |
|---|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | | **Links** |
| PCE-2155 | Transportation Engineering-\|\| | PCE-2155 | Introduction | | https://youtu.be/5zKC_aq4ypM |
| | | | Functional Classification, Design Elements | | https://youtu.be/Kglgk3aVASE |
| | | | Cross Section Elements | | https://youtu.be/936Rv57vzQ8 |
| | | | Stopping Sight Distance And Decision Sight | | https://youtu.be/waKLGmYW6E8 |
| | | | Overtaking, Intermidiate and Headlight Sight | | https://youtu.be/pmVNUiF5HB4 |
| | | | Intersection Sight Distance | | https://youtu.be/KWpCtsMG0TQ |
| | | | Horizontal Alignment - I | | https://youtu.be/Y8rB-wm_QqQ |
| | | | Horizontal Alignment - II | | https://youtu.be/TD8hxA3cws8 |
| | | | Vertical Alignment Part - I | | https://youtu.be/Woch8gL5WK0 |
| | | | Vertical Alignment Part - II | | https://youtu.be/qij9U1yUXdk |
| | | | Principles of Pavement Design | | https://youtu.be/exctAga2KXY |
| | | | Traffic Loading | | https://youtu.be/E3LVFRCbero |

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|---|---|---|---|---|---|
| | | | Pavement Materials - I | | https://youtu.be/3oNa9Z94Hiw |
| | | | Pavement Materials - II | | https://youtu.be/_C4A6030w08 |
| | | | Design of Bituminous Mixes | | https://youtu.be/fqYK4JGlVJY |
| | | | Analysis of Flexible Pavements | | https://youtu.be/a-2XUcbdJiw |
| | | | Analysis of Concrete Pavements | | https://youtu.be/pe7ycTC1W_M |
| | | | Flexible Pavement Design Indian Roads Congress | | https://youtu.be/uJntLOgEHD4 |
| | | | Traffic Studies : Part - I | | https://youtu.be/0yzgMc110po |
| | | | Traffic Studies : Part - II | | https://youtu.be/1TKhZ90lngs |

| Subject Name- Construction Planning and Management | | | | | |
|---|---|---|---|---|---|
| **Code** | **Course Tittle** | **Paper Code** | **Topics** | | **Links** |
| PCE-3101 | Construction Planning and Management | PCE-3101 | Introduction to the course | | https://youtu.be/pwv1Nu3TO4A |
| | | | Overview of steps in execution of a project | | https://youtu.be/GAGoqqZSPh4 |
| | | | Resource management in construction projects | | https://youtu.be/kuCHsNXeNMc |
| | | | Estimating quantities | | https://youtu.be/ofkpm4lhJcg |
| | | | Estimation of project cost | | https://youtu.be/GGikveOcaJw |
| | | | Introduction to planning and scheduling | | https://youtu.be/Nto1VbJSQWs |
| | | | Introduction to planning and scheduling (continued) | | https://youtu.be/ki0ld-KXfic |
| | | | Project scheduling | | https://youtu.be/Cx7i2wXB0kA |
| | | | Uncertainties in duration of activities -Using PERT in scheduling | | https://youtu.be/STVlR9nVNxI |
| | | | Project monitoring and control systems | | https://youtu.be/pdmAwuOno48 |
| | | | Resource leveling and allocation | | https://youtu.be/ILhX4xVcxk0 |

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|---|---|---|---|---|---|
| | | | Crashing of networks | | https://youtu.be/2PPSQB9diVs |
| | | | Essentials of a good contract | | https://youtu.be/xpzrn42NOuU |
| | | | Basics of contracting | | https://youtu.be/O2AWwn-_zmg |
| | | | Dispute resolution in construction projects | | https://youtu.be/JAb5_hmdVHw |
| | | | Types of construction contracts - Definitions | | https://youtu.be/d5nXH6epJdU |
| | | | PERT and CPM | | https://youtu.be/iuVu55CnsFc |

| Subject Name-IRRIGATION ENGINEERING | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-3102 | IRRIGATION ENGINEERING | 3102 | Introduction of irrigation | https://youtu.be/rZyB1YhEy58?t=5 |
| | | | Hydrology | https://youtu.be/S-QzWUmidaE?t=2 |
| | | | hydrograph | https://youtu.be/hjiAnAikLGw?t=3 |
| | | | Hydrological cycle | https://youtu.be/9OLylDkatMc?t=2 |
| | | | Run off coefficient | https://youtu.be/3JsMLE-DOZc?t=3 |
| | | | Determination of run off | https://youtu.be/VqAlepstWcY?t=2 |
| | | | Water requirement of crops | https://youtu.be/ysKAnVEXM2k?t=2 |
| | | | Water Requirement of crops ,Base period, crop period ,Duty and Delta of crop | https://youtu.be/944ztoU829w?t=2 |
| | | | Example duty delta etc | https://youtu.be/FZv1vrBVQvE?t=1 |
| | | | Irrigation efficiency | https://youtu.be/Y4ltA_YkLHo?t=2 |
| | | | Canal design part 1 | https://youtu.be/ErtsFq1G-rM?t=4 |
| | | | Canal design part 2 | https://youtu.be/-5zQY7MpsmU?t=2 |
| | | | Dam ,reservoir and spillways part 1 | https://youtu.be/7qflHiXgwgs?t=26 |
| | | | Dam ,reservoir and spillways part 2 | https://youtu.be/V8_HkMODByY?t=13 |
| | | | DIVERSION HEADWORK | https://youtu.be/_27by5K7guI?t=145 |
| | | | Canal head work and seepage | https://youtu.be/932WQbNeg_0?t=3 |
| | | | Canal regulation work | https://youtu.be/TAJF0AXD10o?t=2 |

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|---|---|---|---|---|
| | | | Difference between weir and barrage. | https://youtu.be/-CrzW4_jxpo?t=5 |
| | | | River training work | https://youtu.be/FDiICR4Tvc4?t=7 |
| | | | Water logging | https://youtu.be/6vQCx80sAwU?t=2 |
| | | | Water logging and drainage system | https://youtu.be/fjgiMqjX_0k?t=36 |
| | | | Cross drainage works | https://youtu.be/oDcOSADN1jo?t=4 |
| | | | Aqueduct, syphon aqueduct, super passage, canal syphon | https://youtu.be/5UBoH3yBTxY?t=3 |

| Subject Name- Public Health Engineering | | | | | |
|---|---|---|---|---|---|
| **Code** | **Course Tittle** | **Paper Code** | **Topics** | | **Links** |
| PCE-3103 | Public Health Engineering | PCE-3103 | Introduction to Water & Waste Water Engineering | | https://youtu.be/zVZ9c6EXfTA |
| | | | Water and Waste Water Quality Enhancement | | https://youtu.be/90tbEzCT-q4 |
| | | | Water and Waste Water Quality Estimation | | https://youtu.be/XTkW5_I-NA0 |
| | | | Water and Waste Water Quality Estimation(Contd) | | https://youtu.be/Ej-WdDJvids |
| | | | Water and Waste Water Characteristics | | https://youtu.be/wI7uvQThX8A |
| | | | Water Treatment System Unit Operations | | https://youtu.be/6u9L0nVUYPY |
| | | | Sedimentation | | https://youtu.be/eknrvqLtbsc |
| | | | Coagulation and Flocculation | | https://youtu.be/C8ghKCUfcQk |
| | | | Softening | | https://youtu.be/dCimAH5IRSA |
| | | | Filtration | | https://youtu.be/dOx1A80fxdw |
| | | | Disinfection | | https://youtu.be/ilvthF0_3GI |
| | | | Introduction to Domestic Waster | | https://youtu.be/VTUWwgeIxWM |

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|---|---|---|---|---|---|
| | | | Water Treatment | | |
| | | | Physical Unit Processes for Waste Water Treatment | | https://youtu.be/J37GdesxfZ4 |
| | | | Aeration, Nitrification and Denitrification | | https://youtu.be/f2siFZlzZRY |
| | | | Natural Waste Water Treatment Systems: Ponds& Lagoon | | https://youtu.be/4GvxExPqvfY |
| | | | Anaerobic Treatment | | https://youtu.be/gTYEBJVQIsU |
| | | | Sludge Treatment | | https://youtu.be/X8cqNEqKyHs |
| | | | Wastewater Disposal and Reuse | | https://youtu.be/cNiy1kR-W74 |
| | | | Ion Exchange, Advanced Oxidation Processes | | https://youtu.be/z4-V9IzGmpg |
| | | | Water Distribution Networks | | https://youtu.be/5NzMt6PErYo |
| | | | Sanitary Sewerage System | | https://youtu.be/-clXHOKhfmA |
| | | | Intake structures and Pumping Installations | | https://youtu.be/cvUa82Qb1Hg |

| **Subject Name-** Structural design and drawing - 1 | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-3104 | Structural design and drawing - 1 | 3104 | INTRODUCTION | https://youtu.be/pIdaC_I6H_M |
| | | | Materials | https://youtu.be/3Do2cZMUGYc |
| | | | Different Methods of Design of Reinforced Concrete Structures | https://youtu.be/ba3mZhOpsTM |
| | | | Working Stress Method | https://youtu.be/j-7aVssJk8I |
| | | | Limit State of Collapse Flexure | https://youtu.be/zVKf6hZfrhA |
| | | | Design of Doubly Reinforced Beam Flexure - I | https://youtu.be/0fTvE8aSsiE |
| | | | Design of Doubly Reinforced Beam Flexure - II | https://youtu.be/JwiHgkC-6Ic |
| | | | Limit State of Collapse Shear | https://youtu.be/iT2pjfYbyZg |
| | | | Design for Shear | https://youtu.be/AfHmpWlcqq4 |
| | | | Design of Slabs Part - 1 | https://youtu.be/PDJPcQq3PZE |
| | | | Design of Slabs Part - II | https://youtu.be/6C3trwHjsbE |
| | | | Design of Slabs Part - III | https://youtu.be/GgatFNtQrBo |
| | | | Design of Slabs Part - IV | https://youtu.be/A9JUGWhEW5A |
| | | | Design of Slabs | https://youtu.be/MkFbC74H0mo |

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|---|---|---|---|---|
| | | | Part - V | |
| | | | Design of Columns Part - I | https://youtu.be/wJWt0dcgafs |
| | | | Design of Columns Part - II | https://youtu.be/p6aDP4ycISM |
| | | | Design of Columns Part - III | https://youtu.be/YbXnWXcbkcc |
| | | | Design of Columns Part - IV | https://youtu.be/gaheNSbhD6w |
| | | | Design of Columns Part - V | https://youtu.be/E0fOCewHOe0 |
| | | | Design of Footings Part - I | https://youtu.be/8ATp13mOhvg |
| | | | Design of Footings Part - II | https://youtu.be/tKGeo4IRQho |

| Subject Name-Surveying II | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | | |
| PCE-3105 | Surveying II | 3105 | Plane table survey explain part 1 | https://youtu.be/tn5nxOQfV9U?t=2 |
| | | | Intersection Method In plane table | https://youtu.be/xUwzJXFfH5c?t=6 |
| | | | Traversing Method In Plane Table Surveying | https://youtu.be/ikmD75PtDNw?t=4 |
| | | | Resection method | https://youtu.be/LLTudvaMFW8?t=6 |
| | | | Part-1 Theodolite Surveying In Hindi (Parts of Theodolite, Varnier scale,) | https://youtu.be/ZkPcr5v7xP8?t=12 |
| | | | Part-2 Temporary Adjustment of Theodolite In Hindi (Centering, Leveling, Focusing ) | https://youtu.be/Hl8lyV0op1U?t=4 |
| | | | Part-3 Horizontal Angle Measurement By Theodolite | https://youtu.be/v7P0yaewxpk?t=2 |
| | | | Part-4 Vertical Angle Measurement By Theodolite | https://youtu.be/quaZ3rTHrvw?t=1 |
| | | | HOW TO CALCULATE VERNIER READINGS OF THEODOLITE AND LEAST COUNT | https://youtu.be/UA4LkCKI3Ak?t=2 |
| | | | Techeometer survey | https://youtu.be/XoWiZZhs8pM?t=77 |

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|---|---|---|---|---|
| | | | Curves | https://youtu.be/sBb2Xf9WktY?t=21 |
| | | | Curve setting out by perpendicular offsets from tangent lines | https://youtu.be/4dzSUkDKDfU?t=2 |
| | | | Curves long chord method | https://youtu.be/Aw5eYAOOgRc?t=2 |
| | | | Advance Survey Equipments | https://youtu.be/nYDqKmOTYKE?t=6 |
| | | | Aerial Survey | https://youtu.be/Eqck-H9stKM?t=2 |
| | | | Remote sensing | https://youtu.be/1zwg-siuvuc?t=31 |
| | | | Remote sensing process | https://youtu.be/UokHOfOyrVw?t=9 |
| | | | Application of remote sensing | https://youtu.be/rd16otLMbVw?t=2 |
| | | | Remote sensing sensors | https://youtu.be/YfPCSSFAfdQ?t=2 |
| | | | | |

| **Subject Name-** Estimation and costing -2 | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | |
| | | | | |
| PCE-3151 | Estimation and costing -2 | 3151 | ESTIMATION OF ROOF TRUSS | https://youtu.be/D4n7b0mUn8g |
| | | | ESTIMATION OF PANELLED DOOR | https://youtu.be/6ZyrwvgPL7Y |
| | | | ESTIMATION OF GLAZED WINDOW | https://youtu.be/2K0TsJoq-yY |
| | | | ESTIMATION OF SEPTIC TANK | https://youtu.be/vVXtY4cj_s8 |
| | | | ESTIMATION OF WATER SUPPLY WORKS | https://youtu.be/XSRLSETKd18 |
| | | | ESTIMATION OF RCC SLAB BRIDGE(ABUTMENT CALCULATION) | https://youtu.be/Rpl9Hzs5tdk |
| | | | ESTIMATION OF RCC SLAB BRIDGE(WING WALL CALCULATION) | https://youtu.be/Rpl9Hzs5tdk |
| | | | ESTIMATION OF RCC SLAB BRIDGE( ABSTRACT OF QUANTITIES) | https://youtu.be/Rpl9Hzs5tdk |
| | | | NUMERICALS ON SINKING FUND | https://youtu.be/5JMcFe3Wt64 |
| | | | NUMERICALS ON DEPRECIATION | https://youtu.be/5ku5WbfvHzs |

| Subject Name- S.D.D.-II (STEEL STRUCTURE) | | | | |
|---|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** | **LINK** |
| | | | connections in steel structure | https://youtu.be/keEq3yw5AA0?t=18 |
| PCE-3152 | STEEL STRUCTURE | 3152 | riveted connection | https://youtu.be/MUifZR_GB2w?t=16 |
| | | | bolted connection | https://youtu.be/ePEQ2KeIvkM?t=4 |
| | | | eccentric connection | https://youtu.be/OTr8G2ITxII?t=1 |
| | | | welded connection | https://youtu.be/Cgu1ZripS5U?t=5 |
| | | | tension member | https://youtu.be/xQq6cDY51Vs?t=336 |
| | | | Tension member | https://youtu.be/xQq6cDY51Vs?t=26 |
| | | | compression member part I | https://youtu.be/sP3Fzg9C_ow?t=420 |
| | | | compression member part 2 | https://youtu.be/IsJjthlqS7g?t=227 |
| | | | column bases part 2 | https://youtu.be/tTEZpElnIfg?t=12 |
| | | | column bases part 2 | https://youtu.be/si8dSAkQWvg?t=4 |
| | | | steel beam part 1 | https://youtu.be/iLoEQXnFHEM?t=3 |
| | | | steel beam part 2 | https://youtu.be/VYsb7J2-tCo?t=6 |
| | | | plate girder | https://youtu.be/4qkpaRAUMTM?t=1 |
| | | | Components of Roof Truss | https://youtu.be/Pwm-qxmIO5I?t=57 |
| | | | design of roof truss part 2 | https://youtu.be/9RMa3kcoOkU?t=6 |
| | | | Design Of Steel Structures Plastic Design | https://youtu.be/GlzlADbrUyA?t=19 |
| | | | Plastic analysis part 1 shape factor | https://youtu.be/rSlH0NImUVU?t=37 |

| **Subject Name-** WORK ORGANISATION AND MANAGEMENT | | | |
|---|---|---|---|
| **Code** | **Course Title** | **Paper Code** | **Topics** |
| | | | |
| PCE-3161 | WORK ORGANISATION AND MANAGEMENT | 3161 | |

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|---|---|
| INTRODUCTION | https://youtu.be/JCfIjah0Zwg |
| CONSTRUCTION TEAM | https://youtu.be/E-hBrNb-H6U |
| PWD procedure for executing work | https://youtu.be/0sEE1UIIluY |
| Accounts in P.W.D | https://youtu.be/3HuBbP2H7MQ |
| Payments to contactor | https://youtu.be/rfvp3UZ_q18 |
| Specifications of contract | https://youtu.be/NOVD1eDU3Ms |
| Specifications of Building construction system | https://youtu.be/3V8QJbFrE0Q |
| Types of engineering contracts | https://youtu.be/DgAOcH7rYIQ |
| Registration of Contractor's (C&A) | https://youtu.be/t0BWObIUQpw |
| Disaster Management | https://youtu.be/WXQHEmLiXQ4 |