

## STUDY PLAN

| Measurement and instrumentation                                   |              | UEE                                                                                 |              | Estimation and Costing    |              |
|-------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------|---------------------------|--------------|
| Topic                                                             | Recording    | Topic                                                                               | Timing       | Topic                     | Timing       |
| Introduction to Electrical & Electronics Engineering Measurements | Recording-1  | Type of Motor and Characteristics                                                   | Recording-1  | Estimation & Costing - 1  | Recording-1  |
| Error Analysis Part-1                                             | Recording-2  | Type of loads                                                                       | Recording-2  | Estimation & Costing - 2  | Recording-2  |
| Error Analysis Part-2                                             | Recording-3  | System of electric traction and track electrification                               | Recording-3  | Estimation & Costing - 3  | Recording-3  |
| Types of Dampings and torques                                     | Recording-4  | Speed-time curves for different services                                            | Recording-4  | Estimation & Costing - 4  | Recording-4  |
| PMMC                                                              | Recording-5  | Calculation of various quantities of Electrical Traction                            | Recording-5  | Estimation & Costing - 5  | Recording-5  |
| Rectifier type instruments                                        | Recording-6  | Methods of Electrical Heating                                                       | Recording-6  | Estimation & Costing - 6  | Recording-6  |
| Moving iron type instruments -1                                   | Recording-7  | Methods of Electrical Welding                                                       | Recording-7  | Estimation & Costing - 7  | Recording-7  |
| Moving iron type instruments -2                                   | Recording-8  | Introduction and terms used in Illumination                                         | Recording-8  | Estimation & Costing - 8  | Recording-8  |
| Moving iron type instruments -3                                   | Recording-9  | Discharge Lamps, MV and SV Lamps                                                    | Recording-9  | Estimation & Costing - 9  | Recording-9  |
| Power factor meter, flux meter, Frequency meter                   | Recording-10 | Basic Principle of Light Control , Types and design of lightning and flood lighting | Recording-10 | Estimation & Costing - 10 | Recording-10 |
| Measurement of Power-1                                            | Recording-11 |                                                                                     |              |                           |              |
| Measurement of Power-2                                            | Recording-12 |                                                                                     |              |                           |              |
| Energy meter -1                                                   | Recording-13 |                                                                                     |              |                           |              |
| Energy meter -2                                                   | Recording-14 |                                                                                     |              |                           |              |
| Instrument transformers Part-1                                    | Recording-15 |                                                                                     |              |                           |              |
| Instrument transformers Part-2                                    | Recording-16 |                                                                                     |              |                           |              |
| CRO - 1                                                           | Recording-17 |                                                                                     |              |                           |              |

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|---------------------------------|--------------|-------|--------|------------------------|--------|
| Topic                           | Recording    | Topic | Timing | Topic                  | Timing |
| CRO - 2                         | Recording-18 |       |        |                        |        |
| AC bridges 1                    | Recording-19 |       |        |                        |        |
| AC bridges 2                    | Recording-20 |       |        |                        |        |

