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| Discipline:ELECTRICAL ENGINEERING | Semester :3rd | Name of the Teaching Faculty: BISWANATH PRATAP SINGH |
| Subject: INTRODUCTION TO ELECTRIC GENERATION SYSTEMS | No. of days/per week class allotted:03 | Semester From date : <u>14.07.2025</u> To:- <u>15.11.2025</u> No. of weeks:18 |
| Week | Class Day | Theory Topics |
| 1 ST | 1 ST | Layout and working of a typical thermal power plant with steam turbines and electric generators |
| | 2 ND | Layout and working of a typical thermal power plant with steam turbines and electric generators |
| | 3 RD | Layout and working of a typical thermal power plant with steam turbines and electric generators |
| 2 ND | 1 ST | Properties of conventional fuels used in the energy conversion equipment used in thermal power plants: Coal, Gas, Diesel, Nuclear fuels-fusion and fission action |
| | 2 ND | Properties of conventional fuels used in the energy conversion equipment used in thermal power plants: Coal, Gas, Diesel, Nuclear fuels-fusion and fission action |
| | 3 RD | Safe Practices and working of various thermal power plants: coalbased, gas- based, diesel-based, and nuclear-based |
| 3 RD | 1 ST | Safe Practices and working of various thermal power plants: coalbased, gas- based, diesel-based, and nuclear-based |
| | 2 ND | Functions of the following types of thermal power plants and their major auxiliaries |
| | 3 RD | Functions of the following types of thermal power plants and their major auxiliaries |
| 4 TH | 1 ST | Coal fired boilers: fire tube and water tube |
| | 2 ND | Gas/diesel based combustion engines |
| | 3 RD | Gas/diesel based combustion engines |
| 5 TH | 1 ST | Types of nuclear reactors :Disposal of nuclear waste and nuclear |
| | 2 ND | Types of nuclear reactors :Disposal of nuclear waste and nuclear s |
| | 3 RD | Gas/diesel based combustion engines |
| 6 TH | 1 ST | Coal fired boilers: fire tube and water tube |
| | 2 ND | Large Hydropower Plants |
| | 3 RD | 2.1 Energy conversion process of hydro power plant |
| 7 TH | 1 ST | 2.2 Classification of hydro power plant: High ,medium and low head |
| | 2 ND | 2.2 Classification of hydro power plant: High ,medium and low head power plant |
| | 3 RD | High head-Pelton turbine |
| 8 TH | 1 ST | Medium head-Francis turbine |

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| | 2 ND | Low head-Kaplan turbine |
| | 3 RD | Safe Practices for hydro power plants |
| 9 TH | 1 ST | Locations of these different types of large hydro power plants in India |
| | 2 ND | Locations of these different types of large hydro power plants in India |
| | 3 RD | Micro-Hydropower Plants |
| | 1 ST | Lay out of micro hydro power plants |
| 10 TH | 2 ND | Lay out of micro hydro power plants |
| | 3 RD | 3.2 Different types of micro-hydro turbines for different heads: 3.2.1 Pelton turbines 3.2.2 Francis turbines 3.2.3 Kaplan turbines |
| | 1 ST | Pelton turbines |
| 11 TH | 2 ND | Francis turbines |
| | 3 RD | Kaplan turbines |
| | 1 ST | Locations of these different types of micro-hydro power plants in India |
| 12 TH | 2 ND | Locations of these different types of micro-hydro power plants in India |
| | 3 RD | Economics of Power Generation and Interconnected Power System |
| | 1 ST | Related terms: connected load, firm power, cold reserve, hot reserve, spinning reserve. Base load and peak load plants; Load curve, load duration curve, integrated duration curve |
| 13 TH | 2 ND | Related terms: connected load, firm power, cold reserve, hot reserve, spinning reserve. Base load and peak load plants; Load curve, load duration curve, integrated duration curve |
| | 3 RD | Cost of generation: Average demand, maximum demand, demand factor, plant capacity factor, plant use factor, diversity factor, load factor and plant load factor |
| | 1 ST | Cost of generation: Average demand, maximum demand, demand factor, plant capacity factor, plant use factor, diversity factor, load factor and plant load factor |
| 14 TH | 2 ND | Choice of size and number of generator units |
| | 3 RD | Combined operation of power station Causes, Impact and reasons of Grid system fault: State grid, national grid, brownout and blackout; sample blackouts at national and international level. |
| | 1 ST | Combined operation of power station Causes, Impact and reasons of Grid system fault: State grid, national grid, brownout and blackout; sample blackouts at national and international level. |
| 15 TH | 2 ND | EXTRA CLASS |
| | 3 RD | DOUBT CLEARING CLASSES |
| | 1 ST | EXTRA CLASS |
| 16 TH | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | EXTRA CLASS |
| | 1 ST | DOUBT CLEARING CLASSES |
| 17 TH | 2 ND | EXTRA CLASS |
| | 3 RD | DOUBT CLEARING CLASSES |
| | 1 ST | EXTRA CLASS |
| 18 TH | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | EXTRA CLASS |

11/07/2025

Teaching Faculty

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| Discipline: ELECTRICAL ENGINEERING | Semester :3rd | Name of the Teaching Faculty: PRATIK DAS |
| Subject: ELECTRICAL CIRCUIT | No. of days/per week class allotted:03 | Semester From date : <u>09.09.2025</u> To:- <u>15.11.2025</u> |
| Week | Class Day | Theory Topics |
| 1 ST | 1 st 2 nd 3 rd | Generation of alternating voltage, Phasor representation of sinusoidal quantities R, L, C circuit elements its voltage and current response Impedance, reactance, impedance triangle of R-L, R-C, R-L-C combination of A.C series circuit |
| 2 ND | 1 st 2 nd 3 rd | Power factor, active power, reactive power, apparent power of R-L, R-C, R-L-C combination of A.C series circuit Power triangle ,vector diagram of R-L, R-C, R-L-C combination of A.C series circuit Resonance of R-L, R-C, R-L-C combination of A.C series circuit |
| 3 RD | 1 st 2 nd 3 rd | Bandwidth, Quality factor and voltage magnification in series R-L, R-C, R-L-C circuit Impedance, reactance, Phasor diagram, impedance triangle of R-L, R-C and R-L-C parallel combination of A.C. circuits Power factor, active power, apparent power, reactive power, power triangle of R-L, R-C and R-L-C parallel combination of A.C. circuits |
| 4 TH | 1 st 2 nd 3 rd | Resonance in parallel R-L, R-C, R-L-C circuit Bandwidth, Quality factor and voltage magnification in parallel R-L, R-C, R-L-C circuit Phasor and complex representation of three phase supply, Phase sequence and polarity |
| 5 TH | 1 st 2 nd 3 rd | Types of three-phase connections Phase and line quantities in three phase star and delta system Balanced and unbalanced load |
| 6 TH | 1 st 2 nd 3 rd | Neutral shift in unbalanced load Three phase power, active, reactive and apparent power in star and delta system Source transformation |
| 7 TH | 1 st 2 nd 3 rd | Star/delta and delta/star transformation Mesh Analysis Node Analysis |
| 8 TH | 1 st 2 nd 3 rd | Superposition theorem Thevenin's theorem Norton's theorem |
| 9 TH | 1 st 2 nd 3 rd | Maximum power transfer theorem Reciprocity Theorem Open Circuit Impedance Parameters |
| 10 TH | 1 st 2 nd 3 rd | Short Circuit Admittance Parameters, Transmission Parameters, Hybrid Parameters Interrelationship of Two Port Network Inter Connection of Two Port Network |


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| Discipline:ELECTRICAL ENGINEERING | Semester :3rd | Name of the Teaching Faculty: BISWANATH PRATAP SINGH |
| Subject: ELECTRICAL& ELECTRONICS MEASURENT | No. of days/per week class allotted:03 | Semester From date : <u>14.07.2025</u> To:- <u>15.11.2025</u> No. of weeks:18 |
| Week | Class Day | Theory Topics |
| 1 ST | 1 ST | Fundamentals of Measurements |
| | 2 ND | Measurement: Significance, units, fundamental quantities and standards |
| | 3 RD | Classification of Instrument System |
| 2 ND | 1 ST | Null and deflection type instruments |
| | 2 ND | Absolute and secondary instruments |
| | 3 RD | Analog and digital instruments |
| 3 RD | 1 ST | Static and dynamic characteristics, types of errors |
| | 2 ND | Calibration: need and procedure |
| | 3 RD | Classification of measuring instruments: indicating, recording and integrating instruments |
| 4 TH | 1 ST | Essential requirements of an indicating instruments |
| | 2 ND | Classification of measuring instruments: indicating, recording and integrating instruments |
| | 3 RD | Measurement of voltage and current |
| 5 TH | 1 ST | DC Ammeter: Basic, Multi range, Universal shunt |
| | 2 ND | DC Voltmeter: Basic, Multi-range, concept of loading effect and sensitivity |
| | 3 RD | AC voltmeter: Rectifier type (half wave and full wave) |
| 6 TH | 1 ST | CT and PT: construction, working and applications |
| | 2 ND | Measurement of Electric Power |
| | 3 RD | Analog meters: Permanent magnet moving coil (PMMC) and Permanent magnet moving iron (PMMI) meter, their construction, working, salient features, merits and demerits |
| 7 TH | 1 ST | Dynamometer type wattmeter: Construction and working |
| | 2 ND | Errors and compensations of PMMI,PMMC and Dynamometer type wattmeter |
| | 3 RD | Active and reactive power measurement: One, two and three wattmeter method |
| 8 TH | 1 ST | Effect of Power factor on wattmeter reading in two wattmeter |

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| | | method |
| | 2 ND | Maximum Demand indicator(Definition only) |
| | 3 RD | Measurement of Electric Energy |
| 9 TH | 1 ST | Single and three phase electronic energy meter: Constructional features and working principle |
| | 2 ND | Errors and their compensations |
| | 3 RD | Calibration of single-phase electronic energy meter using direct loading |
| 10 TH | 1 ST | Circuit Parameter Measurement, CRO and Other Meters |
| | 2 ND | Measurement of resistance |
| | 3 RD | Low resistance: Kelvin's double bridge, |
| 11 TH | 1 ST | Medium Resistance: Voltmeter and ammeter method |
| | 2 ND | High resistance: Megger and Ohm meter: Series and shunt |
| | 3 RD | Measurement of inductance using Anderson bridge (no derivation and phasor diagram) |
| 12 TH | 1 ST | Measurement of capacitance using Schering bridge (no derivation and phasor diagram) |
| | 2 ND | Single beam/single trace CRO (Working principle and block diagram only) |
| | 3 RD | Digital storage Oscilloscope: Basic block diagram, working, Cathode ray tube, electrostatic deflection, vertical amplifier, time base generator, horizontal amplifier, measurement of voltage/ amplitude/ time period/ frequency/ phase angle delay line, specifications. |
| 13 TH | 1 ST | Other meters: Earth tester, Digital Multimeter; L-C-R meter, Frequency meter (ferromagnetic and Weston type), Phase sequence indicator, power factor meter (single phase and three phase dynamometer type), Synchro scope, Tri-vector meter |
| | 2 ND | Signal generator: need, working and basic block diagram. |
| | 3 RD | Other meters: Earth tester, Digital Multimeter; L-C-R meter, Frequency meter (ferromagnetic and Weston type), Phase sequence indicator, power factor meter (single phase and three phase dynamometer type), Synchro scope, Tri-vector meter |
| 14 TH | 1 ST | Digital storage Oscilloscope: Basic block diagram, working, Cathode ray tube, electrostatic deflection, vertical amplifier, time base generator, horizontal amplifier, measurement of voltage/ amplitude/ time period/ frequency/ phase angle delay line, specifications |
| | 2 ND | Analog meters: Permanent magnet moving coil (PMMC) and Permanent magnet moving iron (PMMI) meter, their construction, working, salient features, merits and demerits |
| | 3 RD | Classification of measuring instruments: indicating, recording and integrating instruments |
| 15 TH | 1 ST | Effect of Power factor on wattmeter reading in two wattmeter |
| | 2 ND | EXTRA CLASS |
| | 3 RD | DOUBT CLEARING CLASSES |
| 16 TH | 1 ST | EXTRA CLASS |

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| | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | EXTRA CLASS |
| 17 TH | 1 ST | DOUBT CLEARING CLASSES |
| | 2 ND | EXTRA CLASS |
| | 3 RD | DOUBT CLEARING CLASSES |
| 18 TH | 1 ST | EXTRA CLASS |
| | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | EXTRA CLASS |

12/11/2023

Teaching Faculty

~~Dr. G. M.~~
HOD, EE
11/07/25

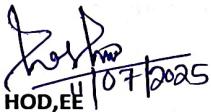
~~A. J.~~
11/07/2023
Academic Coordinator

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| Discipline:ELECTRICAL ENGINEERING | Semester :3rd | Name of the Teaching Faculty: PRABHAT RASHMI MALLIK |
| Subject: DC MACHINES AND TRANSFORMERS | No. of days/per week class allotted:03 | Semester From date : <u>14.07.2025</u> To:- <u>15.11.2025</u> No. of weeks:18 |
| Week | Class Day | Theory Topics |
| 1 ST | 1 ST | 1.DC GENERATOR 1.1 D.C. generator: construction, parts, materials and their functions |
| | 2 ND | 1.1 D.C. generator: construction, parts, materials and their functions |
| | 3 RD | 1.2 Principle of operation of DC generator |
| 2 ND | 1 ST | 1.2.1 Fleming's right hand rule |
| | 2 ND | 1.2.2 Derive the emf equation of DC Generator |
| | 3 RD | 1.2.3 Schematic diagrams of different types of DC generator |
| 3 RD | 1 ST | 1.2.4 Armature reaction |
| | 2 ND | 1.2.5 Commutation |
| | 3 RD | 1.2.6 Applications of D.C. generators |
| 4 TH | 1 ST | 2.D.C. motor 2.1 D.C. motor: Types of DC motors |
| | 2 ND | 2.1.1 Fleming's left hand rule |
| | 3 RD | 2.1.2 Principle of operation of Back e.m.f. and its significance |
| 5 TH | 1 ST | 2.1.3 Voltage equation of DC motor |
| | 2 ND | 2.1.4 Torque and Speed; Armature torque, Shaft torque, BHP, Brake test, losses, efficiency |
| | 3 RD | 2.1.4 Torque and Speed; Armature torque, Shaft torque, BHP, Brake test, losses, efficiency |
| 6 TH | 1 ST | 2.2 DC motor starters: Necessity, two point and three point starters |
| | 2 ND | 2.3 Speed control of DC shunt and series motor: Flux and Armature control |
| | 3 RD | 2.4 Brushless DC Motor: Construction and working |
| 7 TH | 1 ST | 3. SINGLE PHASE TRANSFORMERS 3.1 Types of transformers: Shell type and core type |
| | 2 ND | 3.2 Construction: Parts and functions |
| | 3 RD | 3.3 Materials used for different parts: CRGO, CRNGO, HRGO, amorphous cores |
| 8 TH | 1 ST | 3.4 Transformer: Principle of operation |
| | 2 ND | 3.5 EMF equation of transformer: Derivation, Voltage transformation ratio |
| | 3 RD | 3.6 Significance of transformer ratings |
| 9 TH | 1 ST | 3.7 Transformer No-load and on-load phasor diagram, Leakage |

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| | | reactance |
| | 2 ND | 3.8 Equivalent circuit of transformer: Equivalent resistance and reactance |
| | 3 RD | 3.9 Voltage regulation and Efficiency: Direct loading, OC/SC method, All day efficiency |
| 10 TH | 1 ST | 3.9 Voltage regulation and Efficiency: Direct loading, OC/SC method, All day efficiency |
| | 2 ND | 4.THREE PHASE TRANSFORMERS |
| | 3 RD | 4.1 Bank of three single phase transformers,(Y-Y,Δ-Δ ,Δ-Y, Y- Δ) |
| 11 TH | 1 ST | 4.2 Single unit of three phase transformer |
| | 2 ND | 4.3 Distribution and Power transformers: Construction and cooling |
| | 3 RD | 4.4 Criteria for selection of distribution transformer, and power transformer. |
| 12 TH | 1 ST | 4.5 Need of parallel operation of three phase transformer |
| | 2 ND | 4.6 Conditions for parallel operation. |
| | 3 RD | 4.7 Polarity tests on mutually inductive coils and single phase transformers |
| 13 TH | 1 ST | 4.8 Polarity test, Phasing out test on Three-phase transformer |
| | 2 ND | 5. SPECIAL PURPOSE TRANSFORMERS |
| | 3 RD | 5.1 Single phase and three phase autotransformers: Construction, working and applications. |
| 14 TH | 1 ST | 5.1 Single phase and three phase autotransformers: Construction, working and applications. |
| | 2 ND | 5.1 Single phase and three phase autotransformers: Construction, working and applications. |
| | 3 RD | 5.2 Isolation transformer: Constructional Features and applications |
| 15 TH | 1 ST | 5.2 Isolation transformer: Constructional Features and applications |
| | 2 ND | 5.2 Isolation transformer: Constructional Features and applications |
| | 3 RD | 5.2 Isolation transformer: Constructional Features and applications |
| 16 TH | 1 ST | EXTRA CLASSES |
| | 2 ND | EXTRA CLASSES |
| | 3 RD | EXTRA CLASSES |
| 17 TH | 1 ST | PROBLEM SOLVING CLASSES |
| | 2 ND | PROBLEM SOLVING CLASSES |
| | 3 RD | PROBLEM SOLVING CLASSES |
| 18 TH | 1 ST | DOUBT CLEARING CLASSES |
| | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | DOUBT CLEARING CLASSES |

Teaching Faculty


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| Discipline: ELECTRICAL ENGINEERING | Semester :3rd | Name of the Teaching Faculty: BISWANATH PRATAP SINGH AND PRABHAT RASHMI MALLIK |
| Subject: RENEWABLE ENERGY POWER PLANTS | No. of days/per week class allotted:03 | Semester From date : <u>14.07.2025</u> To:- <u>15.11.2025</u> No of Weeks-18 |
| Week | Class Day | Theory Topics |
| 1 ST | 1 ST 2 ND 3 RD | Solar PV and Concentrated Solar Power Plants 1.1 Solar Map of India: Global solar power radiation, Solar PV |
| 2 ND | 1 ST 2 ND 3 RD | 1.2 Concentrated Solar Power (CSP) plants, construction and working of: Power Tower, Parabolic Trough, Parabolic Dish, Fresnel Reflectors 1.2 Concentrated Solar Power (CSP) plants, construction and working of: Power Tower, Parabolic Trough, Parabolic Dish, Fresnel Reflectors 1.2 Concentrated Solar Power (CSP) plants, construction and working of: Power Tower, Parabolic Trough, Parabolic Dish, Fresnel Reflectors |
| 3 RD | 1 ST 2 ND 3 RD | 1.2 Concentrated Solar Power (CSP) plants, construction and working of: Power Tower, Parabolic Trough, Parabolic Dish, Fresnel Reflectors 1.2 Concentrated Solar Power (CSP) plants, construction and working of: Power Tower, Parabolic Trough, Parabolic Dish, Fresnel Reflectors 1.3 Solar Photovoltaic (PV) power plant: components layout, construction, working. Roof top solar PV power system |
| 4 TH | 1 ST 2 ND 3 RD | 1.3 Solar Photovoltaic (PV) power plant: components layout, construction, working. Roof top solar PV power system 1.3 Solar Photovoltaic (PV) power plant: components layout, construction, working. Roof top solar PV power system 1.3 Solar Photovoltaic (PV) power plant: components layout, construction, working. Roof top solar PV power system |
| 5 TH | 1 ST 2 ND 3 RD | Large Wind Power Plants 2.1 Wind Map of India: Wind power density in watts per square meter Lift and drag principle; long path theory 2.1 Wind Map of India: Wind power density in watts per square meter Lift and drag principle; long path theory 2.1 Wind Map of India: Wind power density in watts per square meter Lift and drag principle; long path theory |
| 6 TH | 1 ST 2 ND 3 RD | 2.2 Geared type wind power plants: components, layout and working. Direct drive type wind power plants: components, layout and working 2.2 Geared type wind power plants: components, layout and working. Direct drive type wind power plants: components, layout and working 2.2 Geared type wind power plants: components, layout and working. Direct drive type wind power plants: components, layout and working |
| 7 TH | 1 ST | 2.3 Constant Speed Electric Generators: Squirrel Cage Induction |

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| | | Generators(SCIG) |
| | ^{2ND} | 2.3 Constant Speed Electric Generators: Squirrel Cage Induction Generators(SCIG) |
| | ^{3RD} | 2.4 Wound Rotor Induction Generator (WRIG); Variable Speed Electric Generators: Doubly-fed induction generator (DFIG), wound rotor synchronous generator (WRSG), permanent magnet synchronous generator (PMSG). |
| ^{8TH} | ^{1ST} | 2.4 Wound Rotor Induction Generator (WRIG); Variable Speed Electric Generators: Doubly-fed induction generator (DFIG), wound rotor synchronous generator (WRSG), permanent magnet synchronous generator (PMSG). |
| | ^{2ND} | 2.4 Wound Rotor Induction Generator (WRIG); Variable Speed Electric Generators: Doubly-fed induction generator (DFIG), wound rotor synchronous generator (WRSG), permanent magnet synchronous generator (PMSG). |
| | ^{3RD} | 2.4 Wound Rotor Induction Generator (WRIG); Variable Speed Electric Generators: Doubly-fed induction generator (DFIG), wound rotor synchronous generator (WRSG), permanent magnet synchronous generator (PMSG). |
| ^{9TH} | ^{1ST} | Small Wind Turbines 3.1 Horizon axis small wind turbine: direct drive type, components and working Horizontal axis small wind turbine: geared type, components and working |
| | ^{2ND} | 3.1 Horizon axis small wind turbine: direct drive type, components and working Horizontal axis small wind turbine: geared type, components and working |
| | ^{3RD} | 3.1 Horizon axis small wind turbine: direct drive type, components and working Horizontal axis small wind turbine: geared type, components and working |
| ^{10TH} | ^{1ST} | 3.2 Vertical axis small wind turbine: direct drive and geared, components and Working Types of towers and installation of small wind turbines on rooftops and open fields |
| | ^{2ND} | 3.2 Vertical axis small wind turbine: direct drive and geared, components and Working Types of towers and installation of small wind turbines on rooftops and open fields |
| | ^{3RD} | 3.2 Vertical axis small wind turbine: direct drive and geared, components and Working Types of towers and installation of small wind turbines on rooftops and open fields |
| ^{11TH} | ^{1ST} | 3.2 Vertical axis small wind turbine: direct drive and geared, components and Working Types of towers and installation of small wind turbines on rooftops and open fields |
| | ^{2ND} | 3.3 Electric generators used in small wind power plants |
| | ^{3RD} | 3.3 Electric generators used in small wind power plants |
| ^{12TH} | ^{1ST} | Biomass-based Power Plants 4.1 Properties of solid fuel for biomass power plants: bagasse, wood chips, rice husk, municipal waste |
| | ^{2ND} | 4.1 Properties of solid fuel for biomass power plants: bagasse, wood chips, rice husk, municipal waste |
| | ^{3RD} | 4.1 Properties of solid fuel for biomass power plants: bagasse, wood chips, rice husk, municipal waste |
| ^{13TH} | ^{1ST} | 4.2 Properties of liquid and gaseous fuel for bio mass power plants: Jatropha, biodiesel gobar gas |

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| | 2 ND | 4.2 Properties of liquid and gaseous fuel for bio mass power plants: Jatropha, biodiesel gobar gas |
| | 3 RD | 4.2 Properties of liquid and gaseous fuel for bio mass power plants: Jatropha, biodiesel gobar gas |
| | 1 ST | 4.3 Layout of a Bio-chemical based (e.g. biogas) power plant: |
| 14 TH | 2 ND | 4.3 Layout of a Bio-chemical based (e.g. biogas) power plant: |
| | 3 RD | 4.4 Layout of a Thermo-chemical based (e.g. Municipal waste) power plant |
| | 1 ST | 4.4 Layout of a Thermo-chemical based (e.g. Municipal waste) power plant |
| 15 TH | 2 ND | 4.5 Layout of a Agro-chemical based (e.g. bio-diesel) power plant |
| | 3 RD | 4.5 Layout of a Agro-chemical based (e.g. bio-diesel) power plant |
| | 1 ST | EXTRA CLASSES |
| 16 TH | 2 ND | EXTRA CLASSES |
| | 3 RD | EXTRA CLASSES |
| | 1 ST | EXTRA CLASSES |
| 17 TH | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | DOUBT CLEARING CLASSES |
| | 1 ST | DOUBT CLEARING CLASSES |
| 18 TH | 2 ND | DOUBT CLEARING CLASSES |
| | 3 RD | DOUBT CLEARING CLASSES |


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