| Subject- EIE Semester- 6th Branch- Electrical Engineering NAME OF FACULTY-LIPSARANI BAGH Date- 16.01.2024 to 28.04.2024 | | | | | |
|---|---|---|---------|---------------|----------------------|
| | | | WEEK NO | NO OF CLASSES | |
| | | | | AVAILBLE | TOPICS TO BE COVERED |
| 1 | 4 | 1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cable, circuit, circuit breaker, | | | |
| | | conductor voltage (low, medium, high, EH), live, dead, cut-out, conduit, system, | | | |
| | | danger, Installation, earthing system, span, volt, switch gear, etc. | | | |
| 2 | 5 | 1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45,Cont 1.3 General conditions relating to supply and use of energy: rule 47, 48, 49, 50, 51, | | | |
| | | 1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91 | | | |
| 3 | 5 | ELECTRICAL INSTALLATIONS 2. 1 Electrical installations, domestics, | | | |
| | | industrial, Wiring System, Internal distribution of Electrical Energy Methods of wiring, syste | | | |
| | | of wiring, wire and cable, conductor materials used in cables, insulating materials mechanic | | | |
| 4 | 3 | determination of size of fuse – wire, fuse units. Earthing conductor, earthing,IS specification | | | |
| | | regarding earthing of electrical installations, points to be earthed. | | | |
| | | Determination of size of earth wire and earth plate for domestic and industrial installations | | | |
| 1 | 5 | 2.3LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design | | | |
| 5 | | lighting schemes factory lighting, public lighting installations, street lighting, general rules for | | | |
| | | wiring, determination of number of points (light, fan, socket, outlets), determination of tot | | | |
| | | load, determination of Number of sub-circuits. | | | |
| | | SOLVE NUMERICALS INTERNAL WIRING | | | |
| 6 | 5 | 3. 2 Prepare one estimate of materials required for CTS wiring for small domestic installation | | | |
| | | of one room and one verandah within 25 m2 with given light, fan & plug points. Cont | | | |
| | | | | | |
| 7 | | 3.4 Prepare one estimate of materials required for concealed wiring for domestic installat | | | |
| | 3 | of two rooms and one latrine, bath, kitchen & verandah within 80m2 with given light, fan 8 | | | |
| | | plug points 3. 5 Prepare one estimate of materials required for erection of an experiment of the property of | | | |
| | | conduct wiring to a small workshop installation about 30m2 and load within 10 KW. Cont SOLVE NUMERICALS OVER HEAD INSTALLATION | | | |
| 8 | 5 | 4.1. Main components of overhead lines, line supports, factors Governing Height of pole, | | | |
| | | conductor materials, Cont | | | |
| | | determination of size of conductor for overhead transmission line, cross arms, pole bracket | | | |
| | | and clamps, Cont | | | |
| 9 | 4 | guys and stays, conductors configurations, spacing and clearances, span lengths, overhead | | | |
| | | insulators, types of insulators, lighting arresters, danger plates, anti-climbing devices, bird | | | |
| | | guards, beads of jumpers, jumpers, tee-offs, guarding of overhead lines.Cont | | | |
| | | 4.2. Prepare an estimate of materials required for LT distribution line within load of 100 KV | | | |
| | | maximum and standard spans involving calculation of the size of conductor (from conductor | | | |
| | | chart) | | | |
| 10 | 4 | current carrying capacity and voltage regulation consideration using ACSR Cont | | | |
| | | 4.3 . Prepare an estimate of materials required for LT distribution line within load of 100 KV | | | |
| | | maximum and standard spans involving calculation of the size of conductor (from conductor | | | |
| | | chart), current carrying capacity and voltage regulation consideration using ACSR Cont | | | |
| | | * | | | |
| | | | | | |
| 11 | 5 | 4.4. Prepare an estimate of materials required for HT distribution line (11 KV) within 2km a | | | |
| | | load of 2000 KVA maximum and standard spans involving calculation of the size of conduct | | | |
| | | (from conductor chart), current carrying capacity and voltage regulation of the size of | | | |
| | | conductor (from conductor chart), current carrying capacity | | | |
| | | and voltage regulation consider action using ACSR Cont | | | |
| | | OVER HEAD SERVICE LINES 5. 1 Components of service lines, service | | | |
| | | line (cables and conductors), bearer wire, | | | |
| 12 | 5 | lacing rod. Ariel fuse, service support, energy box and meters etc.Cont | | | |
| | | 2 Prepare and estimate for providing single phase supply of load of 5 KW (light, fan, socket | | | |
| | | a single stored residential building | | | |
| 13 | | | | | |
| | 5 | 5. 3 Prepare and estimate for providing single phase supply load of 3KW to each floor | | | |
| | | of a double stored building having separate energy meter Cont | | | |
| | | 5. 4 Prepare one estimate of materials required for service connection to a factory | | | |
| | | building with load within 15 KW using insulated wire. Cont | | | |
| 14 | 5 | 5. 5 Prepare one estimate of materials required for service connection to a factory | | | |
| | | building with load within 15 KW using bare conductor and insulated wire | | | |
| | | combined. ESTIMATING FOR DISTRIBUTION SUBSTATIONS | | | |
| | | 6. 1 Prepare one materials estimate for following types of transformer substations. | | | |
| | - | 6.1.1 Pole mounted substation Cont SOLVE NUMERICALS Cont | | | |
| 15 | 2 | 6.1.2 Plinth Mounted substationn. bb Cont | | | |
| 13 | | | | | |

Mag 1/24 Sign of Faculty

Sign of Academic Coordinator