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|---|---|
| 2 - | Design different elements of structural systems |
| 3 - | Reproduce knowledge of mathematics, science and engineering |
| d.General and Transferable Skills: : | |
| 1 - | Lead and motivate individuals. |
| 2 - | Manage time and meet deadlines |

Course Topic And Contents :

| Topic | No. of hours | Lecture | Tutorial / Practical |
|---|--------------|---------|----------------------|
| Bolted connections: Non-pretensioned bolted connections: shear, tension & shear and tension | 5 | 3 | 2 |
| Bolted connections: Pretensioned bolted connections: shear, tension & shear and tension | 5 | 3 | 2 |
| Welded connections; shear, tension & shear and tension | 10 | 6 | 4 |
| Eccentric connections: Types I & II bolted connections | 5 | 3 | 2 |
| Eccentric connections: Types I & II bolted connections (II) | 5 | 3 | 2 |
| Eccentric connections: Types I & II welded connections | 5 | 3 | 2 |
| Design of Crane Girders | 10 | 6 | 4 |
| Beam-columns: Rolled section beam-columns | 5 | 3 | 2 |
| Beam-columns: Built-up sections beam-columns | 5 | 3 | 2 |
| Beam-columns: Batten plates, lacing bars and details | 5 | 3 | 2 |
| Column bases: hinged and fixed bases | 10 | 6 | 4 |
| Portal frames and splices | 5 | 3 | 2 |

Teaching And Learning Methodologies :

Lecture
Class Work

Course Assessment :

| Methods of assessment | Relative weight % | Week No | Assess What |
|-------------------------|-------------------|---------|-------------|
| Assignments/Studio work | 5.00 | | |
| Final exam | 40.00 | | |
| Performance | 10.00 | | |
| Quizzes | 5.00 | | |
| Two Mid Term Exams | 40.00 | | |

Course Notes :

Student Lecture Notes

