

COURSE OBJECTIVE:

1. To Familiarize Students with Various Branches of Civil Engineering
2. To Familiarize Students With Civil Engineering Materials
3. To Familiarize Students With Building Construction
4. To Familiarize Students With Surveying
5. To Familiarize Students With Disaster Management

COURSE CONTENT:

Introduction: Scope of Civil Engineering, Necessity of Civil Engineering, History of Civil Engineering, Brief Introduction of Branches of Civil Engineering.

Properties, Uses and of Tests of Construction Materials: Cement, Coarse Aggregate, Fine Aggregate, Water, Bricks, Stone, Steel, Plastic, Cement Mortar, Cement Concrete, Reinforced Cement Concrete, Timber, Paint, Distemper, Lime.

Building Construction: Types of Buildings, Requirements of Good Building, and Components of a Building. Bricks Masonry, Stone Masonry, Doors, Windows, Staircases, Lifts & Escalators, Floors, Roofs.

Surveying: Types of Surveying, Linear Measurements, Vertical Measurements & Angular Measurements- General Information.

Disaster Management: Types of Disaster, Disaster Resistant Buildings, Disaster Mitigation & Management.

LABORATORY

Experiments as suggested by the course coordinator.

COURSE OUTCOMES

1. Student would have General Idea of Various Branches of Civil Engineering
2. Students would be Acquainted with Construction Materials
3. Student would have Knowledge of Various Types of Surveying and Survey Equipments
4. Students would come to Know about Disaster Mitigation and Management

EVALUATION

Evaluation will be continuous an integral part of the class followed by final examination.

REFERENCES

1. *Satheesh Gopi , Basic Civil Engineering, Pearson Education.*
2. *M S Palanichamy, Basic Civil Engineering, McGraw Hill Education.*
3. *Mimi Das Saikia, Bhargab Mohan Das, Madan Mohan Das , Elements of Civil Engineering, PHI Learning Private Limited*