

Syllabus for Civil Department

Subject	Theory part	Math part
Engineering Materials	Cement, Sand, Bricks, Stone, Concrete, Lime, Wood	Sand FM Calculation
Construction process	Foundation, Curing, Bond, Flore, Plaster, Pointing, Stair, NCF, Wash, point & rennin, Sharing, Under pinning	-
Estimating and costing	Brick Work, Cement, Sand, Khoa, M S bar etc. All type unit weight.	Colum, Beam, Stair, Footing, pond, R.cc Work Retaining Wall.
Theory & Design of Structure	Force, Lamps Theorem, C.G, M of Inertia, Stress, Strain, Deflection, Colum, Beam, Slab, S.F.D & B.M.D, Friction, Moment, Wall, Stair.	S.F.D & B.M.D Deflection, Friction, H.P math CG and Inertia Type math, Hooks math
Surveying	Chain scenery, Leveling, Curve, Contour, Bearing, Plane Table Survey, Earth Curve Error.	Chain math, Aria, Error Math cursor, tow & Three prep, Curve Bearing, High Low method
Geotechnical Engineering	Soil Related theory	Soil Math
Transportation Engineering	High Way, Railway, Airport	S.S.D, P.S.D, Super Elevation,
Water Resource	Run off, Duty, Delta.	Duty , Delta, Crop & Bake period math
Hydraulics	Weir, notch, pipe flow, Manometer.	Moments & pipe flow, Bernoulli

Reference Book

Written-

- 1) Comfort/ Optimum/ প্রযুক্তি ডুয়েট ভর্তি গাইড
- 2) Professors PSC non cadre Question bank
- 3) Diploma Department book (Related topics)

Preliminary-

- 4) Professors Preli Question Bank
- 5) Objective Civil Engineering- R S Khurmi
- 6) Perfect Non Cadre Preli Guide
- 7) BCS Preli Digest (Professors)