

# Nepal Engineering College

[Affiliated to Pokhara University]

nec - BDH Program, nec City office , Satdobato, Lalitpur

Ph No: 01 5548585

Entrance syllabus for BE Civil [for diploma holders]:

**Time : 2 hrs**

1. Objective Physics from intermediate level (IE) [30 marks] **FM : 200 marks**
2. Objective Chemistry from intermediate level (IE)[15 marks]
3. Objective Basic Engineering Mathematics Vol. I [40 marks]
4. Strength of material and theory of structures: [ 30 marks]

Force, moment , couple, equilibrium, center of graviy, centroid, moment of inertia, friction, support reactions and load, simple stress and strain, analysis of plain trusses, thrust , shear and bending moment, theory of simple bending , simple strut theory.

**5. Surveying: [ 30 marks]**

Linear measurements, chain surveying, compass survey, levelling, contouring, plane tabling, theodolite, tranverse surveying, trigonometrical leveling, stadia and tacheometry, simple circular curve, vertical curve, transition curve.

**6. Building materials and construction: [ 30 marks]**

Stones, bricks, clay and clay product, lime , cement, timber and timber product, metals and alloys, paints and varnishes, glass, plaster of paris, terrazzo tiles.

Bearing capacity of soil, foundation, wall, damp proofing, concrete and concrete construction, formwork and scaffolding, doors and windows, lintels, floor and floor finishes, stair and roof, finishing works.

**7. English: [ 25 marks]**

Structures- article, singular and plural, noun, pronoun, verb tense, adjective, adverbs, word choices, phrase.

Letter writing, report writing and essay writing.

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**Work experience FM 50**

Marks distribution for work experience:

- Fresh : 0 [ Marks]
- 1 year : 5 [ Marks]
- 2 years : 10 [ Marks]
- 3 years : 20 [ Marks]
- 4 years : 30 [ Marks]
- 5 years : 40 [ Marks]
- 6 years and above: 50 [ Marks]