

Nepal Engineering College
nec-BDH Program, Prayagpokhari, Lalitpur
Syllabus for nec-BDH Entrance Test 2026

Subject Weightage and Rules of *nec*-BDH Entrance Test

a. The Syllabus and Weightage of Subjects in the *nec*-BDH Entrance Test will be as follows:

SN	Subject	Weightage
1	Engineering Mathematics	20%
2	Physics	15%
3	Chemistry	7.5%
4	Strength of Material (SOM) and Theory of Structures (TOS)	15%
5	Surveying	15%
6	Building Materials and Construction (BMC)	15%
7	English	12.5%

- b. The duration of entrance test is two hours.
c. *nec*-BDH Entrance Test will be OMR paper-based multiple-choice questions.
d. There is not negative marking for the wrong answers.
e. Use of programmable devices is prohibited.
f. For more details contact us at 01-5914585.

1. Syllabus of Mathematics [20%]:

- Objective Basic Engineering Mathematics Vol. I

2. Syllabus of Physics [15%]:

- Objective Physics from Intermediate Level (IE)

3. Syllabus of Chemistry [7.5%]:

- Objective Chemistry from Intermediate Level (IE)

4. Syllabus of SOM & TOS [15%]:

- Force, moment, couple, equilibrium, center of gravity, 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. Syllabus of Surveying [15%]:

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

6. Syllabus of BMC [15%]:

- Stones, bricks, clay and clay product, lime, cement, timber and timber product, metals and alloys, paints and varnishes, glass, plaster of parish, 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. Syllabus of English [12.5%]:

- Structures – article, singular and plural, noun, pronoun, verb, tense, adjective, adverbs, word choices, phrase.
- Letter writing, report writing and essay writing.