

Selection Process for the post of Junior Engineer (Civil)
(Job Reference No. NFR/2018/10)

All shortlisted candidates are required to appear for the screening test (Stage-I), which will be held on 25th November, 2019. Based on the performance in the screening test, the candidates will be shortlisted for the next round of the Written Test (Stage-II). Stage II is likely to be conducted on 25th and 26th of November, 2019. The venue for both the stages is Administrative Block, IIT Dharwad.

Stage-I: Screening Test

Question paper pattern and syllabus

The screening test is divided into four sections as follows:

Section	Topics/Subjects	Weightage of marks
1	General knowledge	10%
2	English language and aptitude	20%
3	Computer Skills	30%
4	Basic Civil Engineering	40%

Broad areas of syllabus for each section are as follows:

Section	Topics/Subjects	Broad syllabus
1	General knowledge	Everyday applications of science, international organizations, geography, history (both Indian and foreign), economics, current affairs and sports.
2	English language and aptitude	Synonyms, grammar, sentence correction/completion, vocabulary, and general aptitude questions.
3	Computer Skills	Basic tools such as Microsoft Word, Excel etc., general computer terminology, basic software and hardware questions, basics of networking and internet.
4	Basic Civil Engineering	Engineering Mechanics; Building Construction- Building components (substructure, superstructure); Building materials; Construction of substructure; Construction of superstructure; Building finishes; Building maintenance; Building drawing; Concrete Technology; Surveying/Geomatics/Remote Sensing; Traffic & Transportation Engineering & Systems; Computer Aided Design; Geo Technical Engineering; Hydraulics; Water Resources & Management; Irrigation Engineering & Hydrology Mechanics of Structures; Theory of structures; Design of Concrete Structures; Design of Steel Structures; Highway Engineering; Environmental Engineering; Advanced Construction Techniques and Equipment; Estimating and Costing; Contracts and Accounts

Stage-II: Written Test:

The final selection of the candidates will be purely based on their performance in the Written Test. A candidate is required to obtain minimum 45% & more marks (40% & more marks for post reserved for SC category) in the Written Test to be eligible for final selection.

Syllabus for the Written Test: (Written Test will include questions based on a field study).

Engineering Mechanics; Building Construction- Building components (substructure, superstructure); Building materials; Construction of substructure; Construction of superstructure; Building finishes; Building maintenance; Building drawing; Concrete Technology; Surveying/Geomatics/Remote Sensing; Traffic & Transportation Engineering & Systems; Computer Aided Design; Geo Technical Engineering; Hydraulics; Water Resources & Management; Irrigation Engineering & Hydrology Mechanics of Structures; Theory of structures; Design of Concrete Structures; Design of Steel Structures; Highway Engineering; Environmental Engineering; Advanced Construction Techniques and Equipment; Estimating and Costing; Contracts and Accounts etc.