

Policy on Field Practice

Field Practice in Civil Engineering for final year BTech and MTech students.

Civil Engineering as a profession is very broad and individuals who practice it should be knowledgeable in numerous areas such as in:

1. Building Planning and Drawing (CE436)
2. Materials of Construction and Strength of Materials (CE332 & CE335)
3. Building Construction, (CE335)
4. Concrete Technology, (CE432)
5. Surveying and Advanced Surveying, (CE333 & CE434)
6. Structural Analysis, (433)
7. Design of Reinforced Concrete elements. (CE532 & CE632)
8. Design of Steel Structures,
9. Water supply and Sanitation, (CE631 & CE731)
10. Soil Testing (CE533 and C3634) and
11. Construction project management (Including procurement and preparation of BOQ). (CE 636 & CE734)

The students of both BTech and MTech are required to do compulsory internship for 60 days and 30 days respectively as per the curriculum.

The field experience is in addition to the laboratory practical experiments and the final year projects that they undertake as per the curriculum.

It is found during their presentation on the internship after completion that the students have not got the required exposure about the site experience or the field practice, which is an opportunity for them to get a required field experience.

During the stake holder's meeting too, the present students who were present expressed that they have not got enough exposure on the practical aspects of civil engineering as they did not get the chance to learn enough during their internship.

It is often expressed by the students that they do not get the required exposure at the site during internships as the project personnel are too busy to explain to them or involve them in the day to day activities as they do not have experience.

In this regard, it is proposed to offer the final year BTech and MTech students, sessions on field practice, which is related to the courses they study from II year to the IV year of BTech. The field practice sessions provided should help the students to get the field exposure required and make them more confident after graduating.

In this regard, an area of 20 m x 10 m would be required to provide the field experience sessions. In addition to the space, other facilities required are also indicated in the drawing. These sessions are proposed to be conducted in the afternoons, during which, One, mason / carpenter and one helper would be required for demonstration to the students.

The other requirements are listed below:

1. One excavated pit of size: 1500 mm x 1500 mm
2. One excavated pit of size 2500 mm x 1500 mm
3. One foundation constructed up to plinth level –Plinth 2000 mm x 450 mm
4. One masonry wall with foundation constructed with table moulded bricks for 2000 mm x 230 mm x 2100 mm
5. One masonry wall constructed over foundation and plastered on both sides. 2000 mm x 2100 mm x 230 mm x 2100 mm
6. One masonry wall constructed over foundation with dadoing for 2100mm x 230 mm x 2100 mm and flooring with antiskid flooring tiles.
7. Two walls constructed over foundation of size 2500 mm x 230 mm x 3000 mm
8. One door frame of size 125 mm x 62.5 mm and one window frame of 100 mm x 50 mm along with shutters.
9. Structural Steel Materials like, Angles, Channels, ISMB sections and gusset plates for demonstration of bolted connections and welded connections.

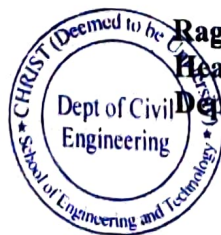
During the sessions, it is proposed to provide the students hands on experience in setting out, excavation for foundation, construction of foundation, construction of masonry, plastering, painting, details of Joinery and joints in structural steel members.

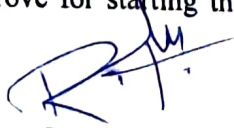
The exercise will also include on estimating the material & manpower requirement and planning the work for the day. The proposed plan in form of drawing and the schedule is attached herewith, which shows the various exercises planned.

The sessions are planned to be executed by the inhouse faculty with industry experience by also involving the junior faculty too to transfer the knowledge to them, so that they too can manage the sessions independently in the future.

It is requested to kindly, considered the proposal and approve for starting the same at the earliest for the current batch of BTech and MTech students.

Date: 03 Aug 2018




Raghunandan Kumar
Head of Department
Department of Civil Engineering