

Higher Nitec in Civil & Structural Engineering Design

HFCSZ

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Specialisation / Option: Reinforced Concrete Design and Detailing

6 month IA Duration

ED5034FPE-1

1. Produce details of piles and pile caps
2. Produce structural layout plans.
3. Produce plans and sections of reinforced concrete foundation.
4. Produce details of reinforced concrete retaining walls.
5. Produce details of reinforced concrete slab.
6. Produce details of reinforced concrete core walls.
7. Prepare schedules of column and wall.
8. Produce details of reinforced concrete beams and beam schedules.
9. Produce details of reinforced concrete staircase.
10. Produce details of precast concrete component.

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Specialisation / Option: Steel Structure Design and Detailing

6 month IA Duration

ED5034FPE-2

1. Produce layout plans of steel structures and schedules of steel members.
2. Produce detailed connections of steel members.
3. Produce details of straight flight steel staircase.

4. Produce plan, section and elevation of steel truss construction.
5. Produce detailed connections of steel roof truss.
6. Produce details of steel portal frame construction.

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Specialisation / Option: External Works

6 month IA Duration

ED5034FPE-3

1. Produce site layout plan of roads, tree plantings, drainage and sewerage systems.
2. Produce longitudinal and cross-sectional profiles of drains and sewers.
3. Produce details of drains and culverts.
4. Produce details of carriageway.