

CIVIL ENGINEERS TRAINING ACADEMY- CETA

A Technical as well as Theoretical Learning Home of Civil Engineer

Building Analysis, Design, Estimating Related Excel Tutorial Videos

A. Earth Quake and Wind Load Analysis Excel File

1. A.1. Earth Quake Analysis Excel As per BNBC-2020, ASCE 7-05, ASCE 7-10

Bangla Video:- <https://youtu.be/AoHscjj5Aiw>

English Video:- https://www.youtube.com/playlist?list=PLTscI_CLWNfA65uq-ZkLoks_FINdDGnUR

2. A.2. Wind load Analysis Excel As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/A4XfwBdHWiM>

English Video:- https://www.youtube.com/playlist?list=PLTscI_CLWNfBN7GPVg7bS1-nBR1TnUJsN

3. A.3. Vertical EQ Load Analysis Excel As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/A4XfwBdHWiM>

English Video:- https://www.youtube.com/playlist?list=PLTscI_CLWNfBN7GPVg7bS1-nBR1TnUJsN

B. Building Model check Excel File

4. B1. P-Delta Check As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/e6P8CSfIAX0>

English Video:- <https://youtu.be/gM5leQLiihM>

5. B2. Base-Shear Check (Seismic Value) As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/coXQ--NjXTE>

English Video:- <https://youtu.be/-2EUnl-dQuA>

6. B3. Sway limitation Check As per BNBC-2020, ASCE 7-05

Bangla Video: <https://youtu.be/a668LGof6O4> (Drift)

Bangla Video: <https://youtu.be/wBWrChhsqWo> (Sway)

English Video: <https://youtu.be/uL4OgVE2wMw> (Sway)

English Video: <https://youtu.be/D3qKHloIOJM> (Drift)

7. B4. Soft story Check As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/e6P8CSfIAX0>

English Video:- <https://youtu.be/dhIxywB6SF8>

8. B5. Torsional Irregularity Check As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtu.be/oZEwDnqvW6o>

English Video:- <https://youtu.be/ELDCzzLz7GY>

9. B6. Drifts and Check As per BNBC-2020, ASCE 7-05

Bangla Video:- <https://youtube.com/playlist?list=PLxle8F-wJI7P43K0GljphED4I5TRXu6Zx>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C. Building Design Excel sheet

C1. Two Way Slab Design Advanced Excel Sheet in WSD/ASD Method

Bangla Video:- <https://youtu.be/OaWFOndsCU>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C2. Two Way Slab Design Advanced Excel Sheet in USD/LRFD Method

Bangla Video:- <https://youtu.be/OaWFOndsCU>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C3. RC Beam Design Advanced Excel Sheet

Bangla Video:- <https://youtu.be/uuyc-EBn6M8>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

***C4. Column (Rec.) Design Advanced Excel**

Bangla Video:- <https://youtu.be/3nbEkwoz4iU>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

***C5. Column (Circular) Design Advanced Excel Sheet**

Bangla Video:- <https://www.youtube.com/playlist?list=PLxle8F-wJI7P43K0GljphED4I5TRXu6Zx>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

***C6. Isolated Footing Design Advanced Excel Sheet**

Bangla Video:- <https://www.youtube.com/playlist?list=PLxle8F-wJI7P43K0GljphED4I5TRXu6Zx>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

***C7. Combined Footing Design Advanced Excel Sheet**

Bangla Video:- www.youtube.com/c/socebd/playlists

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C8. Shear Wall Design Advanced Excel Sheet

Bangla Video:- <https://youtu.be/1f1r9ylZ5Ew>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C9. Cantilever Slab (Balcony) Design (WSD)

Bangla Video:- <https://youtu.be/wq-GM4bkMKI>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C10. Single Footing (Square) Design (USD)

Bangla Video:- <https://youtu.be/HI0lZzVFQf0>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C11. Single Footing (Rectangle) Design (USD)

Bangla Video:- <https://youtu.be/Yg6c9OQpq5c>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

C12. Rectangle Column Design Excel

Bangla Video:- <https://youtu.be/VoR6XnVuhbA>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

D. Staircase Design Excel sheet

D1-D6. Staircase Design Excel Sheet -Case 1 – Case 6

Bangla Video:- <https://www.youtube.com/playlist?list=PLxle8F-wJl7NhJhs46zXHw2EumRcklcK0>

English Video:- <https://youtu.be/V97hF11F5qw>

E. Building Detailing & Reinforcement Calculation Related Excel sheet

E1. (For Beam) Shear Reinforcement, Torsional Reinforcement and Main Reinforcement Calculation Advanced Excel Sheet From Design data/ Software as per BNBC 2020 and ACI 318

Bangla Video:- <https://youtu.be/AL77Gl6Kff8>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

E2. (For Column) Shear Reinforcement, Torsional Reinforcement and Main Reinforcement Calculation Advanced Excel Sheet From Design data/ Software as per BNBC 2020 and ACI 318

Bangla Video:- https://youtu.be/V_xtyiKb2jA

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

E3. (For Shear Wall) Shear/Horizontal Reinforcement and Main/Vertical Reinforcement Calculation Advanced Excel Sheet from Design data/ Software as per BNBC 2020 and ACI 318

Bangla Video:- <https://youtu.be/ypz9NEr5val>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

E4. Development length and lapping length calculation excel sheet as per BNBC 2020 and ACI

Bangla Video:- <https://youtu.be/BH142sIYQNM>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

F. Building Estimating & Costing Related Excel Sheet & Important File

F1. Foundation Estimating & Costing ExcelSheet

Bangla Video:- <https://youtu.be/KGgmlH1A2XE>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

F1. Beam Estimating & Costing ExcelSheet

Bangla Video:- <https://youtu.be/m1OahPjkk8>

English Video:- www.youtube.com/c/SchoolofCivilEngineering/playlists

(Minimum Software Requirement:

For Better Experiences please use MS Office (Excel) 2013 or above version. (Using the Lower version of MS Office than 2013, some functions may not work.)

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