# MODELS, CHARTS & KNOWLEDGE CORRIDOR

- Beyond conventional teaching methods such as chalk and talk, faculty members in our department enhance the learning experience by utilizing physical models, charts and the knowledge corridor infrastructure.
- It helps to provide a visual representation of complex concepts and ideas. Visual aids enhance the learning experience by making the **information more engaging and memorable.**
- Models and charts allow students to observe and interact with physical representations of technical concepts. This hands-on approach helps students develop a **deeper understanding of the subject matter** by linking theory to real-world applications.
- Models and charts **simplify complex information** by breaking it down into easily understandable components. They present information in a concise and organized manner, making it easier for students to comprehend and retain knowledge.
- Models and charts encourage students to analyze, interpret, and evaluate information. They **stimulate critical thinking** by allowing students to examine relationships, patterns, and connections within the subject matter.
- Models and charts provide a **bridge between theoretical knowledge and practical applications.** They help students connect abstract concepts to real-world examples, illustrating how theory translates into practical solutions.
- Effective Communication: Models and charts facilitate **effective communication between teachers and students.** They serve as a common visual language that simplifies complex information and promotes clearer communication.
- “Knowledge Corridor” which showcases the **basic information, concepts and technical details of Civil Engineering domain**. The information includes basic information related to the subjects and basic knowledge needed in future.

**"Models, charts& knowledge corridor"**

- Beyond conventional teaching methods such as chalk and talk, faculty members in our department enhance the learning experience by utilizing physical models, charts and the knowledge corridor infrastructure.
- These visual aids, crafted under the expertise of our faculty members, supplement the explanation of concepts.
- At the start of each semester during the lesson planning phase, faculty members strategically identify topics for which these models, charts and knowledge corridor elements will be employed.
- This approach not only facilitates visual learning but also fosters interactivity and provides students with a clearer understanding of the concepts being taught.


ENGINEERING
CV 301
SketchUp
3ds Max
ETABS
STAAD.Pro
SAP2000
Abaqus
QGIS


## DETAILS OF REINFORCEMENT BARS

| DIAMETER | CROSS SECTIONAL AREA (sqmm) | MASS PER UNIT LENGTH (kg/m) | MASS OF A 12m LONG BAR (kg) | NUMBER OF BARS IN A BUNDLE | APPROX MASS OF ONE BUNDLE (kg) |
|---|---|---|---|---|---|
| 8mm | 50.27 | 0.395 | 4.740 | 10 | 48.00 |
| 10mm | 78.54 | 0.616 | 7.392 | 7 | 52.00 |
| 12mm | 113.10 | 0.888 | 10.656 | 5 | 54.00 |
| 16mm | 201.06 | 1.579 | 18.948 | 3 | 57.00 |
| 20mm | 314.16 | 2.466 | 29.592 | 2 | 60.00 |
| 25mm | 490.87 | 3.854 | 46.248 | 1 | 47.00 |
| 32mm | 804.25 | 6.313 | 75.756 | 1 | 76.00 |

**Note:** Your valuable suggestions and Critique will help us to improve our teaching quality and offer the best learning environment. Write to us at **hodce.mitt@gmail.com**