QUICKSTEP COMPUTER CENTER

National Accreditation Board of Education Training.
(NABET)- Quality council of India) An ISO 9001:2008

ETABS SYLLABUS

I.   OVERVIEW OF THE PROGRAM

- FUNDAMENTAL CONCEPTS
- VARIETY OF OPTIONS
- SOFTWARE ALGORITHM
- ADVANCED CAPABILITIES
- DATA SHARING WITH OTHER SOFTWARE PROGRAMS
- SIGNIFICANCE OF MENU BUTTONS AND ICONS
- SAMPLE MODELS AND TEMPLATES
- HELP AVAILABLE WITHIN THE PROGRAM

II.   MODELLING PROCESS AND TECHNIQUES

- GEOMETRY CREATION PROCESS
- MODELLING THROUGH IMPORT METHOD (2D IMPORT)
- PROPERTY ASSIGNMENT THROUGH AUTOMATION AND THROUGH THE EXISTING TEMPLATES
- LOADING:
  DEAD,LIVE,WIND,EARTHQUAKE,TEMPERATURE,WALL,WATER,CINDER
- DETAILS OF WIND TUNEL & ITS LOADINGS, STANDARDISATION OF WIND MODEL & ETABS MODEL
- RELEASES, SUPPORTS,DIAPHRAGMS,ALL DEFINITION PARAMETERS
- CHECKING OF MODELLING TECHNIQUES
- MODELLING STEEL & COMPOSITE STRUCTURE

111.ANALYSIS PROCESS AND TECHNIQUES

- STATIC ANALYSIS
- DYNAMIC ANALYSIS
- SIGNIFICANCE OF EACH ANALYSIS AND ITS USE
- CHECKING LATERAL STABILITY DEFLECTIONS DRIEFS, TORSIONAL IRREGULARITIES, MASS IRREGULARITIES, STIFFNESS IRREGULARITIES, ETC

IV   DESIGN PROCESS AND TECHNIQUES

- DESIGN OF COLUMNS AND BEAMS METHODOLOGY LIMITATIONS ETC
- DESIGN OF COMPOSITE FRAME SECTIONS
- DESIGN OF WALLS,SLABS,FOUNDATION&RAFT
- DESIGN METHODOLOGY

V. REPORTING

- **OUTPUT AND DISPLAY**
- **REPORTING SUMMARY IN EXCEL**
- **DETAILINGS AND REPORT SUMMARY**
- **STUDY OF THE REPORT**

USER INTERFACE

- ➢ **MODELLING**
- ➢ **TEMPLATES**
1. **MODEL VIEWS**
    - ➢ **GRID SYSTEM**
    - ➢ **DRAWING TOOLS**
    - ➢ **PLANS AND ELEVATIONS**
    - ➢ **INTERACTIVE TABLE DATA EDITING**
    - ➢ **MESHING TOOLS**
2. **BUILDING COMPONENTS**
    - ➢ **LOADING**
    - ➢ **ANALYSIS**
    - ➢ **PERFORMANCE BASED DESIGN**
    - ➢ **DESIGN**
    - ➢ **OUTPUT AND DISPLAY**
    - ➢ **DETAILINGS**
    - ➢ **REPORTING**

IMPORT AND EXPORT