



MSME- TECHNOLOGY CENTRE, GUWAHATI
TOOL ROOM & TRAINING CENTRE
Ministry of Micro, Small & Medium Enterprises, Govt. of India



COURSE NAME: e – Learning on Application of Staad Pro
Course Duration: 24 Hours

Sl no.	TOPICS
1	INTRODUCTION <ul style="list-style-type: none">• INTRODUCTION TO STAAD PRO INTERFACE• CO-ORDINATE CALCULATION & STRUCTURE CREATION USING COORDINATE• USES OF GEOMETRY TOOLS LIKE COPY, PASTE, NODE, VIEWS, CHECKING DIMENSIONS, ROTATE, TEXT, CHANGING COLORS & CHOOSING UNITS ETC.
2	BEAM ANALYSIS <ul style="list-style-type: none">• GENERATING THE MODEL GEOMETRY IN PLANE INTERFACE BEAM ANALYSIS & CALCULATIONS• PRACTICE EXERCISE
3	FRAME ANALYSIS <ul style="list-style-type: none">• CREATING FRAME STRUCTURE BY CALCULATING COORDINATE POINTS. GENERATING THE MODEL GEOMETRY• FRAME ANALYSIS & CALCULATIONS• PRACTICE EXERCISE
4	TRUSS ANALYSIS <ul style="list-style-type: none">• TRUSS MODEL GENERATION AND ANALYSIS IN TRUSS STRUCTURE.• APPLYING LOAD (WIND LOAD, SEISMIC LOAD, FLOOR LOAD, LIVE LOAD, DEAD LOAD) BY USING TRUSS MEMBER
5	SPACE STRUCTURE <ul style="list-style-type: none">• SPACE FRAME STRUCTURE, NAVIGATION TO LEAD THE CO-ORDINATES TO CREATE THE STRUCTURE.• STRUCTURE INCLUDING NODE BEAM & ELEMENT

	<ul style="list-style-type: none"> • EXERCISE
6	<p>WATER TANK</p> <ul style="list-style-type: none"> • MAKING RECTANGULAR & CIRCULAR WATER TANK WITH THE HELP OF LINEAR & CIRCULAR TRANSLATIONAL REPEAT • EXERCISE
7	<p>RCC STRUCTURE</p> <ul style="list-style-type: none"> • STRUCTURE GENERATION USING STRUCTURE WIZARD METHOD • APPLYING LOAD (WIND LOAD, SEISMIC LOAD, FLOOR LOAD, LIVE LOAD, DEAD LOAD) BY USING MULTY STOREY BUILDING. • DESIGN OF BEAM AND COLUMN UNDERSTAND THE CONCRETE PARAMETERS TO DESIGN BEAM, COLUMN & SLAB • DESIGN OF BEAM AND COLUMN, FILE TRANSFER, CONCRETE DESIGN, STEEL DESIGN, SLAB DESIGN, SHEAR FORCE /BENDING MOMENT, SOLVE SOME ERROR • EXERCISE ON MULTI STOREY RCC RESIDENTIAL BUILDING DESIGN .
8	<p>RCC FOUNDATION</p> <ul style="list-style-type: none"> • RCC FOUNDATION DESIGN FOR VARIOUS PARAMETERS INCLUDING GRADE OF CONCRETE & STEEL • PROBLEMS ON RCC FOUNDATION
9	<p>FLOOR PLAN IN AUTOCAD IMPORT TO STAAD PRO AND DESIGN THE SAME</p>