JADAVPUR UNIVERSITY COMPUTER AIDED DESIGN CENTRE Faculty Council of Engineering and Technology Kolkata - 700 032

Certificate Course on Structural Analysis And Design (STAAD)

STAAD.Pro is one of the most widely used s tructural analysis and de sign s oftware products worldwide. This is a generalised application software for almost all types of Civil Engineering structure. R.C.C. Framed structures of moderate he ight or any types of s teel f rames can be modelled very efficiently by its graphical user interface or in editor. The specialty of STADD.pro software is it has a very simple STAAD editor language to input the structure.

Civil, Construction, and Structural Engineers will highly appreciate this course.

Course Duration: 62 hrs

Eligibility: BE/BTech/AMIE passed in C ivil/Construction engineering (final year s tudents ar e also eligible).

Course Content

Class No.	Theory/ Lab	TOPIC	Duration of Class
Class –01	Theory	Introduction & General Idea of STAAD	2 hrs
Class - 02	Theory	Input Instructions for Geometry Generation For Plane Frames	
			2 hrs
Class –03	Theory	Input Instructions for Geometry Generation for space frames	2 hrs
Class - 04	Theory	Input Instructions for Geometry Generation of Tutorial	
		Problems set-1	2 hrs
Class - 05	Lab	Practice for Tutorial Problems set-1	2 hrs
Class-06	Theory	Input Instructions for Local axis, section, support & member	
C1 07			2 nrs
Class –07	Theory	Input Instructions for member Load, Floor Load, Joints Loads	
		etc	2 hrs
Class - 08	Theory	Input Instructions for Seismic Load Generation	2 hrs
Class –09	Theory	Input Instructions for Loads of Tutorial Problems set-2	2 hrs
Class -10	Lab	Practice for Tutorial Problems set-2	2 hrs
Class –11	Theory	Input Instructions for Wind and Moving Load Generation	2 hrs
Class –12	Theory	Input Instructions for Concrete and steel design	2 hrs

Class -13	Theory	Input Instructions for Loads of Tutorial Problems set-3	2 hrs
Class-14	Lab	Practice for Tutorial Problems set-3	2 hrs
Class-15	Theory	Input Instructions for Projects No-1 (Building day-1)	2 hrs
Class-16	Lab	Practice for Projects No-1 (Building day-1)	2 hrs
Class-17	Theory	Input Instructions for Projects No-1 (Building day-2)	2 hrs
Class –18	Lab	Practice for Projects No-1 (Building day-2)	2 hrs
Class-19	Theory	Input Instructions for Projects No-1 (Building day-3)	2 hrs
Class –20	Lab	Practice for Projects No-1 (Building day-3)	2 hrs
Class –21	Theory	Input Instructions for Seismic Load Generation in advance	2 hrs
Class –22	Theory	Input Instructions for Projects No-2 (moving load)	2 hrs
Class –23	Lab	Practice for Projects No-2 (moving load)	2 hrs
Class –24	Lab	Practice for Projects No-2 (moving load)	2 hrs
Class –25	Theory	Input Instructions for Projects No-3 (Plain truss)	2 hrs
Class –26	Lab	Practice for Projects No-3 (Plain truss)	2 hrs
Class - 27	Lab	Practice for Projects No-3 (Plain truss)	2 hrs
Class –28	Theory	Input Instructions for Projects No-4 (Over Head Water	2 hrs
C1	Tak	Tank)	2 11/5
Class - 29	Lab	Practice for Projects No-4 (Over Head Water Tank)	2 hrs
Class - 30	Lab	Practice for Projects No-4 (Over Head Water Tank)	2 hrs
Class - 31	Lab	Practice for Projects No-4 (Over Head Water Tank)	2 hrs
Exam	Theory	Theory Examination Test Part-01	
Exam	Theory	Theory Examination Test Part -02	
Exam	Lab	Lab Examination	

Certificate: Completion certificate (in printed form) will be provided at the end of the course.