Activity report – Staad.Pro Training for students of B.Tech and M.Tech Civil Engineering

(Under TEQIP III Twinning activity with REC REWA)

A training activity on design and analysis of structures using STAAD.PRO was arranged for the students of final year B.Tech Civil Engineering and M.Tech Civil Engineeirng(Structures) of SPCE and students from REC REWA under TEQIP III. The training was conducted in different sessions during March-April 2021. The software skills are highly beneficial to students for their final year projects as well as add to their skill set while seeking job. The training was provided by Mr.Manan Shah. A summary of training sessions conducted is given below :

Session no.	Topics covered
S1	Introduction to software and various tools available in the software, unit system, SFD,BMD theory concepts, etc.
S2	Calculation of SFD and BMD for simply supported beam (Manually as well as Staad Pro.) i.e. Validation problem and various shortcuts in software,Geometry commands and static loads in software
S3	Application of floor loads and temperature loads in sofware
S4	Understanding and application of wind load in software
S5	Basics of earthquake engineering and application of seismic coefficient method in software
S6	Application of response spectrum method in software
S7	Application of moving load in software
S8	How to use STAAD EDITOR in software,How to make auto and manual load combinations in software,truss validation problem
S9	Understanding of G+3 Special moment resisting frame structure
S10	Modelling of G+3 Special moment resisting frame structure
S11	Application of loads and analysis of G+3 Special moment resisting frame structure
S12	Understanding post processing commands in software
S13	Design of G+3 Special moment resisting frame structure

S14	Modelling and analysis of rectangular and circular water tank in software
S15	Modelling and analysis of transmission tower in software
S16	Discussion on assignment problem