README file for FitFG Software

- Run Setup_FitFG_v0p1.exe to install FitFG
- In the menu hit New
- Select Fit Static and hit OK. The Experimental Data page will open
- Hit Load to enter the datafile with load versus delta (or CMOD) files (Exp_fic.txt file is available for the first test)
- Go to Specimen Data and enter geometric description of the beam
- Length=500mm; span=450mm; height=150mm, thichness=150mm; notch depth=25mm and Elastic Modulus=33900MPa;
- Go to the Numerical Model page enter ft=4,0MPa and Gf=120 MPa. If you choose other cohesive law, enter the corresponding parameters. There are also options for the Numerical Model.
- Hit Calculate. The corresponding curve, the initial guess, will be shown. You may attempt to improve the initial guess by changing parameters and hitting Calculate.
- Go to the Minimize Method . Select the parameters to be adjusted (Ey, ft and Gf). Select the interval for fitting though the Max. Fit Delta
- Go to the Fit Page and hit Fit. It will automatically calculate the parameter that describe the best fit to the given data.
- If you want to do further computations using the same data, please unlock the green locker on the top right corner.