<u>Details of expected work for projects ESE4, ESE5, ESC7, ESC8, ESC10</u>

For project topics listed above **ESE4, ESE5, ESC7, ESC8, ESC10** following things are also required as part of the evaluation criterion:

i) Perform model robustness check i.e., if the weights/layers etc. in your neural network design change, what is the implication on the accuracy? You can carry out multiple experiments on your design and then tabulate your obtained results.

ii) If you keep reducing the size of the neural network design (in terms of numbers of parameters), how does the model performance change? You can carry out multiple experiments on your design and then tabulate your obtained results.

iii) Provide an explanation as to how and why your model works. One way of explaining the working is to think in terms of the building blocks of your model. Now, as multiple options/choices exist for these blocks, please provide an explanation as to why the choices that you have made for these blocks (like type and number of layers, type of activation function etc.) work and give the results that you are reporting.

Out of the above, (i) is of 4 marks, (ii) is of 3 marks and (iii) is of 3 marks, rest 6 marks are for the usual report-writing, experimental/simulation results etc.