**Guidelines for the Report**

Following is the sample of how the solution of assignments can be presented in the reports.

**Example 2.3 (From the compendium): Calculate the complex power consumed by an inductor with the inductance of 3.85 H which is fed by an AC voltage source with the phasor  *V*. The circuit frequency is 50 Hz.**

1. **Solution given in compendium (Recommended):**

 (H)

The impedance is given by

 (Ω)

The phasor current through the impedance can be calculated as

 (A)

Thus, the complex power is given by



(VA)

1. **Another acceptable solution:**

****(V)

 (H)

 (Hz)

The impedance is given by

(Ω).

The phasor current through the impedance can be calculated as

 (A)

Thus, the complex power is given by

(VA)

**NOTE:**

Note that in both the presented solutions, all the variables are **defined** (either by value or equation) and their **units are given**. It is recommended to use the format of examples from compendium, because in case you have given a wrong final answer, we could check your earlier numerical values and avoid deducting full marks if the mistake was minor. However, if only the final numerical answer is given, then it is also acceptable.

There are some points which should be taken care of while writing the reports.

* You need to define the unit of each quantity, for example.
* All complex variables must have a bar. For instance, , or

(where  and  must be defined), ***but not*** , or 

* The impedance and complex power must be given in **rectangular form**, voltage and current must be given in **polar form**, angle must be given in **degrees.**
* While writing the numerical answers, use “format short g”, and give the required numerical answers as exactly have been obtained in MATLAB, i.e. without rounding off.
* Only those questions, whose corresponding solution in MATLAB-codes is given in appendix, will be marked. No marks will be awarded to the question if there is mismatch between the solution in the report and the MATLAB-code.