



Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)

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Lab requirements in the NKN course on “VLSI Chip Design Hands on using open source EDA”

1) **OS** - Ubuntu (All scripts and opensource tool installation has been verified rigorously with Ubuntu. *(Please ignore this step if you already have Ubuntu installed)*)

You can download/install latest version from below link

<https://ubuntu.com/download/desktop>

2) **RAM** - min 4GB - max GB is good enough (4GB is needed just for Ubuntu installation)

3) **Memory** - min 15GB/student - max 25GB/student (4GB for Ubuntu installation, 4GB for tool installation, rest for students to save files during workshop and while solving assignments)

4) **Internet speed** - 5Mbps per student during the 5-day tenure of workshop. I guess, Institute will have high speed a broadband connection. That should be sufficient to download labs on the fly.

I would suggest to download OS (if not downloaded) before the first coordinator sensitization workshop, as that will take some time. Its around 2GB Ubuntu ISO image

5) **For students with Windows laptop** - Please Lecture 1) and 2) of below free course, and use above Ubuntu OS. I will explain this part in coordinator sensitization workshop

<https://www.udemy.com/vsd-a-complete-guide-to-install-open-source-eda-tools/>

6) **Regarding Firewall** - As long as below links are accessible, we are fine

<https://github.com/kunalg123/>

<https://www.vlssystemdesign.com/>

<https://www.udemy.com/vsd-a-complete-guide-to-install-open-source-eda-tools/>

<http://opencircuitdesign.com/>

The below 2 links are to show a taped-out opensource RISC-V based SoC layout on last day

<https://efabless.com/> (**Only for instructor on last hour of last day**)

<https://www.linkedin.com/> (**Only for instructor on last hour of last day**)