EL309 VLSI LAB

ASSIGNMENT #1

Marks: 100 **Assignment start date: 13-03-2019**

Assignment Deadline: 27-03-2019 @ in lab

You are required to search and write a formal technical report, not more than 5 pages, on the following topic:

Topic: Design Rules Check (DRC) Errors

Your report should include:

(1) Name of at-least 25 different DRC errors which commonly occur during digital ICs layout design
(2) A brief description of each DRC error/Reason why does a specific DRC error occur? It is essential to use the sketch of layouts to explain a DRC error.
(3) How to eliminate these DRC errors in layout?

Submission

- Write a formal technical report not more than 5 pages long. Please remember I am not looking for a type of the report you submit in your labs. **I want a proper technical report, else you will get nominal marks. Learn how to write a technical report.**
- The report should be **type-written**. Hand written assignments will not be accepted.
- Include references for your work in **IEEE format**. Please learn how to provide references in IEEE format.
- There will be a **plagiarism check for the assignment via plagiarism software**. Following formula will be used for marking of the plagiarised assignments:

  If (Plagiarism <= 20 %)

  Deduction = 0 marks; normal grading

  else

  Deduction = 100 marks; 0 mark will be awarded

- Please learn how does **plagiarism software work?**
- Hard and soft copies of the assignment report are required, soft copies in the assignment section of slate and hard copies in the lab.
- **Your report submitted on slate should not include any scanned text/comment/derivation/mathematical formula. Only scan version of figures and circuits (if any) is allowed.**
- In case of any query related to the assignment, you are welcome to email me (rashid.karim@nu.edu.pk) or visit my office.