



**Alexandria University**  
**Faculty of Engineering**  
*Electrical Engineering Department*

**ECE 336: Semiconductor Devices**  
**Project Description**

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- The course project is a survey report about a selected topic.
- The project can be done individually or in a group up to 5 students maximum.
- The topic of the project can be selected from the following suggested list of topics:
  - Micro-Electro Mechanical Systems (MEMS)
  - Nano Technology applications in the electronic devices
  - 3D MOSFETs and 3D Ics
  - Photonic semiconductors
  - Quantum Computing
  - Ultimate limits of integrated electronics
  - Integrated strategy for foundry industry
  - Carbon nanotube field effect transistor
  - Quantum effects in nanoscale electronic devices
  - Non-silicon semiconductor devices
  - Other related topics can be accepted after getting the instructor's approval
- The project report should be written similar to a scientific paper published in a conference
- The paper organization should be as follows: Abstract, Introduction, Body (start, progress, state of the art), CAD Tools, Conclusions and Future Work
- **The report submission deadline is 1/1/2015** and maximum number of pages is 10 (IEEE conference proceedings double column format).  
[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)
- Project Grading: The project paper will be graded according to the following guidelines
  - Originality (no copy and paste) 40%
  - Completeness of information 25%
  - Quality of presentation 20%
  - Organization and referencing 10%
  - Innovations and others 5%