CMPS1211 Team Project
DUE DATE: Section 1 Thu 2 May 2024; Section 2/3 Wed 1 May 2024
FORMAT: Digital submission and Presentation
TOTAL POINTS: 60 (10% of course grade)

INSTRUCTIONS:

You will work with your assigned team for this assignment to complete the tasks.

A template for the cover page is provided on the CMPS1211 Moodle site. This cover page includes a signature block. Team members must briefly indicate their contribution(s) to the Project and the percentage of the project their contribution(s) represent.

This information and their dated signature confirm that they have contributed to and are knowledgeable of the work done for the Project submission. Team member names that are not included or appear on the signature block without a signature will not receive a grade.

PROJECT SCOPE

To allow for maximum creativity/ freedom of choice, the project is a report and presentation on **ANY** HARDWARE TOPIC RELATED TO, BUT NOT COVERED IN, the CMPS1211 course. The key factor is that your chosen topic will **generate significant interest and capture your audience's attention** for 10 – 12 minutes.

NOTE: BEFORE proceeding with the team projects, teams must submit their selected topics to the lecturer for approval by SUNDAY, 31 MARCH.

EXAMPLE TOPICS
3D Multi-Sensor Transmitters
3D-Printed Electronics
5D Optical Storage
At-Home Digital Diagnostics
Biocompatible Electronics
Chiplets and Heterogeneous Integration
Gallium Nitride (GaN) Transistors
Heat-Assisted Magnetic Recording (HAMR)
Helium Drives
High-Performance/ Power-Saving Processors
Holographic Displays
Hybrid flash storage array
Neuromorphic Computing Chips
Next-Generation Memory Technologies
On-Premises Servers
Perovskite Solar Cells
Project Silica
Rapid Virus Testing
Spintronics

1. PROJECT REPORT DOCUMENT

AESTHETICS
a. Cover Page: Include your name, the course, the Semester, the date, and other relevant/appropriate information)
b. Content page: The document's contents (include any pages preceding this page).

CONTENT (**minimum 4 pages – minimum 2000 words**)
a. Description of the topic of the project.
b. Rationale for the topic selected.
c. Information on the selected topic with relevant diagrams, pictures, explanations, and supporting documentation.

CONCLUSION (**1 page – minimum 500 words**)
Provide an evaluation of your project that includes:
- relevant observations and conjectures pertaining to the topic's information usefulness;
- the interest the topic will generate for your audience.

2. PROJECT PRESENTATION

a. Conduct a PowerPoint presentation to peers in class on the designated day. The presentation should be well delivered with engaging visual and verbal content.
b. Your entire presentation should last between **10-12 minutes**. Practice before the appointed time to ensure your delivery is smooth and interesting. You will be graded on your timing - come prepared since the clock starts when your team is called on to present.

PROJECT SUBMISSION

BEFORE CLASS via email on the due date - a ZIP file containing (1) the report in PDF format and (2) the PowerPoint presentation.

TEAMS

SECTION 1: Thu 2 May 2024 - 2:00 AM - 3:15 PM

TEAM 1	TEAM 2	TEAM 3	TEAM 4
Bol, H	Alfaro, W	Choc, S	Borland, Z
Burns, I	Augustine, D	Rash, E	Daniels, T
Gonzalez, C	Hung, A	Staine, K	Martinez, J
Sierra, J	Sanchez, R	Tobar, A	Spain, Z
Vassel, K	Tun, A	Tzib, J	Teck, J

SECTION 2: Wed 1 May 2024 - 8:00 AM - 9:15 AM

TEAM 1	TEAM 2	TEAM 3	TEAM 4
Bobadilla, A	Arnold, K	Montoya, J	Andrews, A
Correa, S	Koop, J	Moreira, E	De La Fuente, M
Tut, J	Moore, D	Teul, J	Gonzalez, S
Witzil, J	Portillo, D	Torres, C	Palma, X

SECTION 3: Wed 1 May 2024 - 12:00 PM - 1:15 PM

TEAM 1	TEAM 2	TEAM 3	TEAM 4
Acosta, A	Aban, D	Anderson, J	Magdaleno, B
King, P	Briceno, A	Lucas, J	Meighan, T
Martinez, A	Cartagena, D	Milian, A	Morales, H
Moh, S	Juarez, G	Pulido, G	Ramos, D
Taylor, G	Patnett, Z	Vaughan, G	Williams, D

GRADING CRITERIA

1 Project Report Document (25)

a. Professional Appearance	1.00
b. Cover page/ Contents page/ Length (minimum 2000 words)	3.00
c. Description of the topic of project	4.00
d. Rational for topic selected	4.00
e. Information on selected topic	4.00
f. Supporting documentation	4.00
g. Conclusion (minimum 500 words)	5.00

2 Project Presentation (32)

a. Organization	4.00
b. Visual Aids	4.00
c. Mechanics	4.00
d. Eye Contact	4.00
e. Verbal Techniques	4.00
f. Subject Knowledge	4.00
g. Content	
Topic description	1.00
Topic Rational	1.00
Topic Information	1.00
Conclusions	1.00
h. Timing (10-12 minutes limit)	4.00

3 Project Submission (3)

a. Archive (Zip or 7z)	1.00
b. Report PDF and Presentation PowerPoint	2.00
Total Value/ Points	60.00

PRESENTATION RUBRIC				
	1	**2**	**3**	**4**
Organization	Audience cannot understand presentation because there is no sequence of information.	Audience has difficulty following presentation because student jumps around.	Student presents information in logical sequence which audience can follow.	Student presents information in logical, interesting sequence which audience can follow.
Visual Aids	Student uses superfluous visual aids or no visual aids.	Student occasionally uses visual aids that rarely support the presentation.	Student's visual aids relate to the presentation.	Student's visual aids explain and reinforce the presentation.
Mechanics	Student's presentation has four or more spelling errors and/or grammatical errors.	Presentation has three misspellings and/or grammatical errors.	Presentation has no more than two misspellings and/or grammatical errors.	Presentation has no misspellings or grammatical errors.
Eye Contact	Student makes no eye contact and only reads from notes.	Student occasionally uses eye contact, but still reads mostly from notes.	Student maintains eye contact most of the time but frequently returns to notes.	Student maintains eye contact with audience, seldom returning to notes.
Verbal Techniques	Student mumbles, incorrectly pronounces terms, and speaks too quietly for audience in the back of class to hear.	Student's voice is low. Student incorrectly pronounces terms. Audience members have difficulty hearing presentation.	Student's voice is clear. Student pronounces most words correctly. Most audience members can hear presentation.	Student uses a clear voice and correct, precise pronunciation of terms so that all audience members can hear presentation.
Subject Knowledge	Student does not have grasp of information about subject.	Student is uncomfortable with information, provides only rudimentary information and fails to elaborate.	Student is at ease and provides most information with explanations and some elaboration.	Student demonstrates full knowledge (more than required) by providing information with explanations and elaboration.
Content	Project description	Project Rational	Content	Conclusions
Timing	<8 mins	8 - <10 mins	>12 mins	10-12 mins