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<th>Programme</th>
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FYP Matters

Assoc Prof Hari K Garg
CEG FYP Coordinator
CG4001 BEng Dissertation

- Also known as Final Year Project (FYP)
- Objectives:
  - Embark on a project that involves a mix of research, design and development components
  - Apply knowledge and skills acquired in the classroom to develop innovative ways of solving problems
  - Acquire skills for independent and lifelong learning
Cont’d

- Putting what you have learnt together, from “hard” to “soft” skills
  - Define problem
  - Solve problem, justify decision
  - Present and communicate ideas
  - Write and organize ideas clearly
  - Manage your time
Why is FYP important?

- Programme Requirement, 12 MCs

- Large (over 2 semesters) project + individual effort
  - One of your main “portfolio” in your undergraduate studies

- A chance to work closely with a faculty member
  - You need a reference someday ....
CEG – FYP Management

CG4001 FYP site https://ceg.nus.edu.sg/cg4001/
FYP Assessment – Timeline

• First Semester: Continual Assessment
  • (Week 12) Report
  • (Reading Week) “Informal” Presentation

• Second Semester: Final Assessment
  • (Week 12) Report
  • (Reading Week) Formal Presentation

• Final Report/Survey
  • (Week after exam) Upload Report & Presentation slides (pdf) to Dspace and/or ScholarBank@NUS + Submit Exit Survey & FYP Survey online
Evaluation

First Semester

- Supervisor 20%
- Main Evaluator 10%

Second Semester

- Supervisor 20%
- Main Evaluator 30%
- Moderator 20%
Assessors at Continual Assessment

- **Supervisor (20%)**
  - 1. Understanding
  - 2. Execution & Overall Achievements
  - 3. Effort
  - 4. Initiative
  - 5. Interim Report

- **Main Evaluator (10%)**
  - 1. Oral presentation
  - 2. Report: Statement of Problem
  - 3. Report: Critical Evaluation of Literature
  - 4. Report: Organization
  - 5. Overall Methodology
  - 6. Overall Implementation & Analysis
Assessors at Final Assessment

- Supervisor (20%)
  1. Report: Statement of Problem
  2. Report: Critical Evaluation of Literature
  3. Report: Organization
  4. Overall
  5. Overall Implementation & Analysis
Assessors at Final Assessment

- **Main Evaluator (same person as CA) (30%)**
  - 1. Oral presentation
  - 2. Overall Methodology
  - 3. Overall Implementation & Analysis
  - 4. Report: Statement of Problem
  - 5. Report: Critical Evaluation of Literature
  - 6. Report: Organization

- **Moderator (20%)**
  - 1. Oral presentation
  - 2. Overall Methodology
  - 3. Overall Implementation & Analysis
Student Feedback – A Sample

A sample of feedbacks (edited and summarized)

• .... I'm glad to have gone through the experience ....

• ... real work is subject to change and I have to be versatile ..... FYP is definitely one of the most meaningful module to me.

• Great experience, eye opener, learnt many new things beyond lectures

• ... CEGers are not required to do final year project (in the future). I do think this is bad news for them ...
The project honestly wasn't easy, but a fruitful experience nonetheless.

Steep learning curve, as there was no bridge between taking modules and beginning research.

FYP is difficult but necessary

The entire FYP journey was filled with ups and downs
FYP – Things to Remember

- You have to take the initiative
- Meet your supervisor regularly and seek help when you encounter problems
  - Request for meetings
  - Setup regular appointments
- Find out from your supervisor what is the expectation
- Manage your time, make sure you are making progress along the way and not wait till end of the project and start to panic
ECE FYP Poster Competition

- FYP supervisors to recommend their students based on good progress and achievements-to-date in their FYP.
- Poster competition to be held in Week 13 of Semester 2 (mid-Apr).
- Nominated students to prepare an A1-size poster on their FYP and present their work to a judging panel.
- Three prizes worth $200, $150 and $100 plus certificate.
SoC FYP/UROP Innovation Prize

- Recognise students who have developed innovative, practical and commercialisable ideas with the potential of substantial real-world impact.
- The successful awardee will win a cash prize up to S$2,000.
- The Singapore Infocomm Technology Federation (SiTF) looks to review some of the promising projects for funding under the 123JumpStart where selected project can potentially be funded up to $250,000.

https://www.comp.nus.edu.sg/entrepreneurship/awards/ia/
Examples of Past Achievement

- Publications
  - Ling Chun Kai (Class of 2015), AAAI 2016 and at last 7 more published since 2016

- Awards:
  - 6 University-level Outstanding Undergraduate Researcher (OUR) Prizes
  - 9 projects successfully got the SoC Innovation & Entrepreneurship awards and grants since 2015
  - Done well in national-level and international-level competitions
1. ENGINEERING FYP INFORMATION LITERACY TUTORIAL AND ZOTERO WORKSHOP

24 Aug 2019 (Saturday), 10am – 3pm
Faculty of Engineering, LT 7
Register at this link: https://nus.edu/2XGN2xS

OR

2. ENGINEERING FYP INFORMATION LITERACY TUTORIAL

28 Aug 2019 (Wednesday), 2.30pm – 4.30pm
Engineering Auditorium (EA)
Register at this link: https://nus.edu/30WawfH
Calling for Achievements & News in Competitions, Projects, Sports, etc., so that we can brag broadcast!

Refer to https://ceg.nus.edu.sg/students/achievements/

CEG3 & CEG4 students: Email to Winnie cegcwn@nus.edu.sg
CEG1 & CEG2 students: Email to Mun Bak lowmb@nus.edu.sg
COMPUTER ENGINEERING CAREER ADVISOR

What services can you receive from us?

One-to-one career coaching
✓ Book your appointment at:

Weekly FoE career workshops
✓ Look out for our emails

Other resources offered by CFG:

Recruitment activities & events
✓ CFG calendar of events

Online resources
✓ CFG career resources

Ms. Poh Suan LEE
Career Advisor for Computer Engineering

pohsuanlee@nus.edu.sg
E4-04-13
Grade-free Scheme
S/U Rules

For students from AY2016 intakes (& After)

Refer to Registrar’s Office page on S/U matters with Student Portal
Grade-free Scheme
AY2016 intake (& After)

• Exercise S/U option for up to 32 MCs in the first two regular semesters, and if not fully utilised, up to 12 MCs in subsequent semesters
• Once an ‘S' or ‘U' grade is assigned to a module, it will count towards the 32 MCs limit that can be taken on an S/U basis.

• The S/U option can be exercised on:
  • All level 1000 modules (except for the English for Academic Purposes modules)
  • Level 2000 modules with no other NUS modules as pre-requisites (unless otherwise stipulated by the Facs/Depts)

  ... 

  i.e. CANNOT exercise S/U option on technical electives.
Technical Electives  AY2016 intake

• To achieve depth, CEG students need to read a minimum of two depth electives (8 MCs)
• All technical electives must add up to at least 12 MCs

• Other modules hosted by CS or ECE (i.e. CS or EE coded) may be used to fulfil CEG Technical Elective (TE) requirements (under no particular concentration).
• Generally, a level 3000 module will count as CEG TE Breadth, while a level 4000 will count as CEG TE Depth.

https://ceg.nus.edu.sg/curriculum/electives-ay16/
Taking Additional Technical Electives

- Students are encouraged to read more than the minimum number of Technical Electives (TEs) that are required for their degree programme. These additional TEs can count as unrestricted elective module (UEM).
  - **All technical electives**, regardless of host department & module type code, will be on **graded basis** (since they are all higher-level and/or with NUS prerequisites).

- **FAQ:**
  1. **Q:** Do I need to declare my extra technical elective(s) in order to fulfill UEM requirements?
  2. **A:** No, not necessary to re-declare ‘extra’ TEs as UEM (and vice versa). For ‘My Graduation Audit Report’, the extra modules (not used to fulfill Programme/Major or ULR/GE requirements) will automatically count as UEMs.
Apply For Graduation
via EduRec

AFG/FFG Checklist

https://ceg.nus.edu.sg/students/ffg_checklists/
AFG/FFG Checklist for CEG students in structured DDPs
Apply For Graduation (AFG)

- Apply For Graduation via EduRec in the semester you intend to graduate in
  
  For sem 1, AY19/20, AFG from 25 Jul – 6 Sept 2019
  For sem 2, AY19/20, AFG dates tbc

- It is **student’s responsibility** to check if all graduation requirements (i.e. CEG Programme/Major including technical electives, ULR/GE and UEM) have been fulfilled

- You should do manual cross-check using AFG/FFG checklist and your unofficial transcript
Limit on Level 1000 modules

- Students should not read more than 60 MCs of level 1000 modules towards their degree requirements, excluding
  - CFG1010 Roots and Wings – Personal and Interpersonal Effectiveness 1.0 (2 MCs)
  - CFG1002 Career Catalyst (2 MCs)#
  - ES1103 English for Academic Purposes (4 MCs)
  - Modules under the Design-Your-Own-Module (DYOM) initiative

#Exclusion of CFG1002 from limit on level-1000 modules is applicable to CEG/SoC/FoE students from Cohort 2016/17 onwards.

- For AY2015/16 (Poly) intake & after, the 20 MCs of Level-1000 advanced placement credits from Unrestricted Elective Modules (awarded for work completed at the Polytechnic level) will not be counted against the 60-MCs limit on Level-1000 modules.
Limit on Level 1000 modules

- If a student exceeds the 60 MCs limit of level 1000 modules, some of the level 1000 modules taken as UEM will not be counted towards the 160 MCs graduation requirement even though they will still count towards the CAP computation. In such a situation, students may have to take a level 2000 (or higher) module as UEM.

- As an example, if you have 64 MCs of level 1000 modules (i.e. 4 MCs extra), your minimum MCs for graduation becomes 164.

- Refer to http://www.nus.edu.sg/registrar/education-at-nus/undergraduate-education/degree-requirements.html
My Graduation Audit Report
My What-If Report

- The current list of CEG technical electives (TEs), is outdated. It will only be updated in mid-Sept (and mid-Feb for sem 2).
- All CS/EE-coded level 3000/4000 modules (not listed within the six CEG concentrations) may count as CEG TE Breadth/Depth.
- IF a TE shows up as UEM (or vice versa) in your graduation audit report, as long as you have done your own manual cross-check, do not/need not get overly anxious.
- For students with approved module mappings (‘exceptions’), please retrieve your earlier correspondence with Winnie and track fulfilment of the requirements yourself. Graduation checks (by administrators) start around mid-Sept (and mid-Feb for sem 2).
NUS Code of Student Conduct

www.nus.edu.sg/registrar/administrative-policies/acceptance-record.html
Academic Offences

The University takes a strict view of cheating in any form, deceptive fabrication, plagiarism and violation of intellectual property and copyrights laws. Any student who is found to have engaged in such misconduct will be subjected to disciplinary action by the University.

- **Plagiarism**
  - The practice of taking someone else's work or ideas and passing them off as one's own (e.g. copying from your classmates, seniors, books and/or online resources).

- **Violations in Assessment Regulations**
  - Unauthorised materials in assessment venue
  - Unauthorised electronic devices
  - Cheating/copying during assessment

- **Forgery of Medical Certificate / supporting documents**
  - Forging MCs for make up tests/assessments is a criminal offence under Singapore Law.
All students share the responsibility for upholding the academic standards and reputation of the University. Academic honesty is a prerequisite condition in the pursuit and acquisition of knowledge.

Academic dishonesty is any misrepresentation with the intent to deceive or failure to acknowledge the source or falsification of information or inaccuracy of statements or cheating at examinations/tests or inappropriate use of resources.

There are many forms of academic dishonesty and plagiarism is one of them. Plagiarism is generally defined as ‘the practice of taking someone else’s work or ideas and passing them off as one’s own’

The University does not condone plagiarism.

https://www.comp.nus.edu.sg/cug/plagiarism/
Degree Classification

http://www.nus.edu.sg/registrar/education-at-nus/undergraduate-education/continuation-and-graduation-requirements.html#DegreeClassification
## AY2012 intake & after

### Grade Point

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<th>A+/A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D+</th>
<th>D</th>
<th>F</th>
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<tr>
<td>CAP</td>
<td>5.0</td>
<td>4.5</td>
<td>4.0</td>
<td>3.5</td>
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<td>2.5</td>
<td>2.0</td>
<td>1.5</td>
<td>1.0</td>
<td>0</td>
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### Cumulative Average Point (CAP)

\[
(\sum MC_i \times GP_i) / (\sum MC_i)
\]

### Honours Classification

- **Honours (Highest Distinction)**: \(\text{CAP} \geq 4.5\)
- **Honours (Distinction)**: \(4.0 \leq \text{CAP} < 4.5\)
- **Honours (Merit)**: \(3.5 \leq \text{CAP} < 4.0\)
- **Honours**: \(3.0 \leq \text{CAP} < 3.5\)
- **Pass**: \(2.0 \leq \text{CAP} < 3.0\)
Awards

https://ceg.nus.edu.sg/students/awards/
Awards for graduating CEG4

- IES Gold Medal
  - Top graduating student
- Lee Kuan Yew Gold Medal
  - Best performing graduate
- Defence Science and Technology Agency Gold Medal
  - Best local final-year student
- Halbrecht Associates Prize
  - Second top student
- IEEE Singapore Computer Society Gold Medal & Prize
  - A top student
- IEEE Singapore Computer Society Book Prize
  - Best Honours Year term project (i.e. CG4001)
University Health, Wellness & Counselling Centre
http://www.nus.edu.sg/uhc/services/mental-health/student

Emotional & Psychological Well Being
• Anxiety, Depression
• Mental Health, Self-Worth, Shyness, Stress
• Eating Disorders
• Sudden Loss and Grief
• Feelings, Loneliness

Relationship Issues
• Abusive Relationships, Family Stress, Managing Conflicts, Surviving a Breakup

Personal Effectiveness
• Decision Making, Motivation, Test Anxiety, Time Management, Challenges of University Life
Q&A