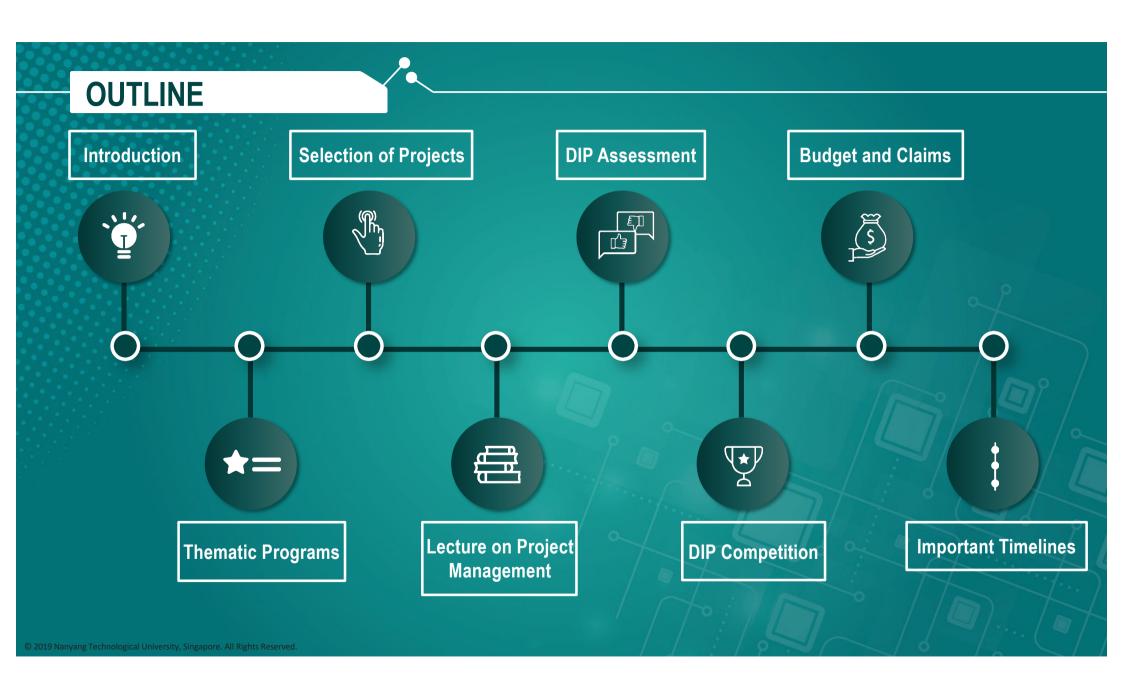


DESIGNAND INNOVATION PROJECT (DIP)

EE3180 DESIGN AND INNOVATION PROJECT

EEE DIP CHAIRMAN: Hung Dinh NGUYEN



* INTRODUCTION



Compulsory for all full-time third year EEE students



3-AU



Carried out in Semester 1 and 2





Design



Simulate



Prototype



Test



















Supervised by up to 2 faculties





Students are required to work on DIP for 6 hours per week over the 13 weeks

MANDATORY

1.30pm – 4.30pm Every Wednesday In Assigned Lab.

FLEXIBLE

Determined by project supervisor and students

★= THEMATIC PROGRAMMES



TP01: Smart and Micro Grids for Integration of Renewable Energy Sources

Coordinator: Prof Amer Ghias



TP02: Smart Electronics

Coordinator: Prof Poenar Daniel Puiu



TP03: Cyber Security

Coordinator: Dr Chan Chee Keong



TP04: UAVIONICS

Coordinator: Prof Lim Meng Hiot

https://entuedu-my.sharepoint.com/:x:/g/personal/ewphau_staff_main_ntu_edu_sg/ERo-t61hLlpDkL4-o-1mUoIBQPyAeEG3ra3gtOglaArsSg?e=VULaIT&wdLOR=c0CBAE88A-6AA0-EB43-841D-AAF979BCFC0C

★= THEMATIC PROGRAMMES



TP05: Photonics

Coordinator: Prof Wong Liang Jie



TP06: Robotics & Intelligent Systems

Coordinator: Prof Soh Yeng Chai



TP07: Machine Learning and Data Analytics

Coordinator: Prof Jiang Xudong

★= THEMATIC PROGRAMMES



TP08: Escape Game Design & Implementation

Coordinator: Prof Hu Guoqiang



TP09: Smart Mobile Apps (SMAPPS)

Coordinator: Dr Tan Chee Wah Wesley



TP10: Radar and Satellite Systems

Coordinator: Prof Abdulkadir C. Yucel



TP11: Electromedical and Microelectronics

Coordinator: Prof Kim Munho

ELECTURE ON PROJECT MANAGEMENT



Complete, Friday of Week 3







Supervisor

- Progress Blogs Individual & Group
- Project Charter
- **✓** Project Report
- Oral & Video Presentation
- Class Participation and Engagement

A+

Overall Individual Grade

Moderator

- Logbook/Interview
- Video Presentation & Demonstration
- **✓** Project Report

Progress Blog

https://blogs.ntu.edu.sg/ee3180-2324s2-eXXX

PROGRESS BLOG

Complete by 23:59, Friday of Week 13



Individual Blog

Each student in the group will post their individual contribution to the project from week 1 to week 13.



Group Blog

Discussion forum for all team members in the group to interact and contribute from week 1 to week 13.



Project Charter

Submit report by 23:59, Friday of Week 4



Project Description



Milestone



Project management / Budget



Risk

Final Group Project Report

Submit report by 23:59, Monday of Week 13



Each student needs to contribute to ONE final group report. Group leader will consolidate & submit the group report to NTULearn for assessment.



40-50 pages (excluding appendices)



Group Leader to submit as
Assignment in NTULearn
under DIP project group
Course ID for plagiarism
check



Compulsory Peer Review for All Group Members

SUBMIT REVIEW FRIDAY OF WEEK 13

- Information gathering
- Initiative/motivation to learn and participate responsibly
- Positive collaboration with team members
- Application of creative/innovative ideas
- Technical knowledge & skills

- Problem solving ability
- Achievement and work quality
- Personal discipline
- Attendance
- Etc.



Compulsory Peer Review for All Group Members

SUBMIT REVIEW FRIDAY OF WEEK 13



Every student should do the peer review ranking seriously and independently



Students who purposely manipulate the peer review outcome will face serious consequence including disciplinary action from the School



Do NOT rank yourself



During assessment by supervisor and moderator, the following results will be considered as references:

- DIP Competition Result
- Ranking in Peer Review





DIP COMPETITION DATE

Monday of Week 14



Projects within respective thematic programmes will compete against each other



Competition results will be used as reference for final assessment results



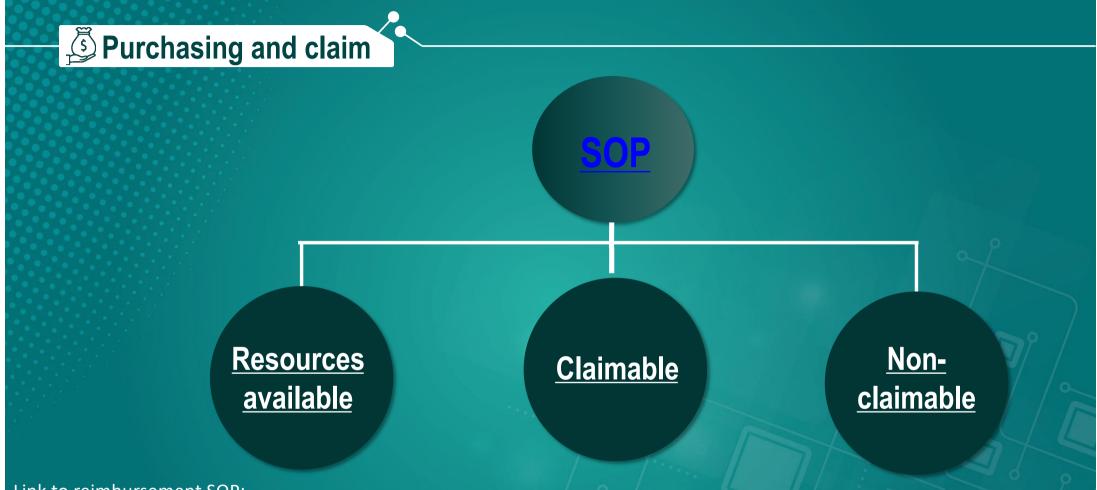
Existing resources in labs should be utilised



Total budget for each thematic programme = S\$1000 x No. of Projects (excluding GST)



Every purchase should be approved by Project Supervisor. Overspending without prior approval at the school level will NOT be reimbursed.



Link to reimbursement SOP:

https://entuedu.sharepoint.com/sites/Student/cs/eee/Shared%20Documents/Forms/AllItems.aspx?id=%2Fsites%2FStudent %2Fcs%2Feee%2FShared%20Documents%2FUndergraduate%2FFull%2DTime%2FCourse%20Information%2FDIP%2Freimbur sement%2Epdf&parent=%2Fsites%2FStudent%2Fcs%2Feee%2FShared%20Documents%2FUndergraduate%2FFull%2DTime% 2FCourse%20Information%2FDIP

IMPORTANT TIMELINES BRIEFING SESSION PROJECT 17[™] January **MANAGEMENT LECTURES** (1:30PM-3:00PM) DEADLINE **Complete Online FOR PROJECT** 2nd February (Fri, Wk3) **CHARTER REPORT DEADLINE FOR** DEADLINE FOR PEER REVIEWS 9th February (Fri. **REPORT** Wk4) **SUBMISSION DEADLINE FOR PROGRESS BLOG** 15TH April (Mon. Wk13) 19TH April (Fri. Wk13) **OFFICIAL DATE OF DIP COMPETITION** 22nd April (Mon. Wk 14)



RESOURCES



More information and updates at DIP website:

https://entuedu.sharepoint.com/:u:/r/sites/Student/cs/eee/SitePages/Undergrad

<u>Time/Course%20Information/Design%20</u> <u>and%20Innovation%20Project%20-</u> %20Introduction.aspx?csf=1&web=1&e=I

<u>%2UIntroduction.aspx?csf=1&web=1&e=</u> <u>yCPcN</u>

