



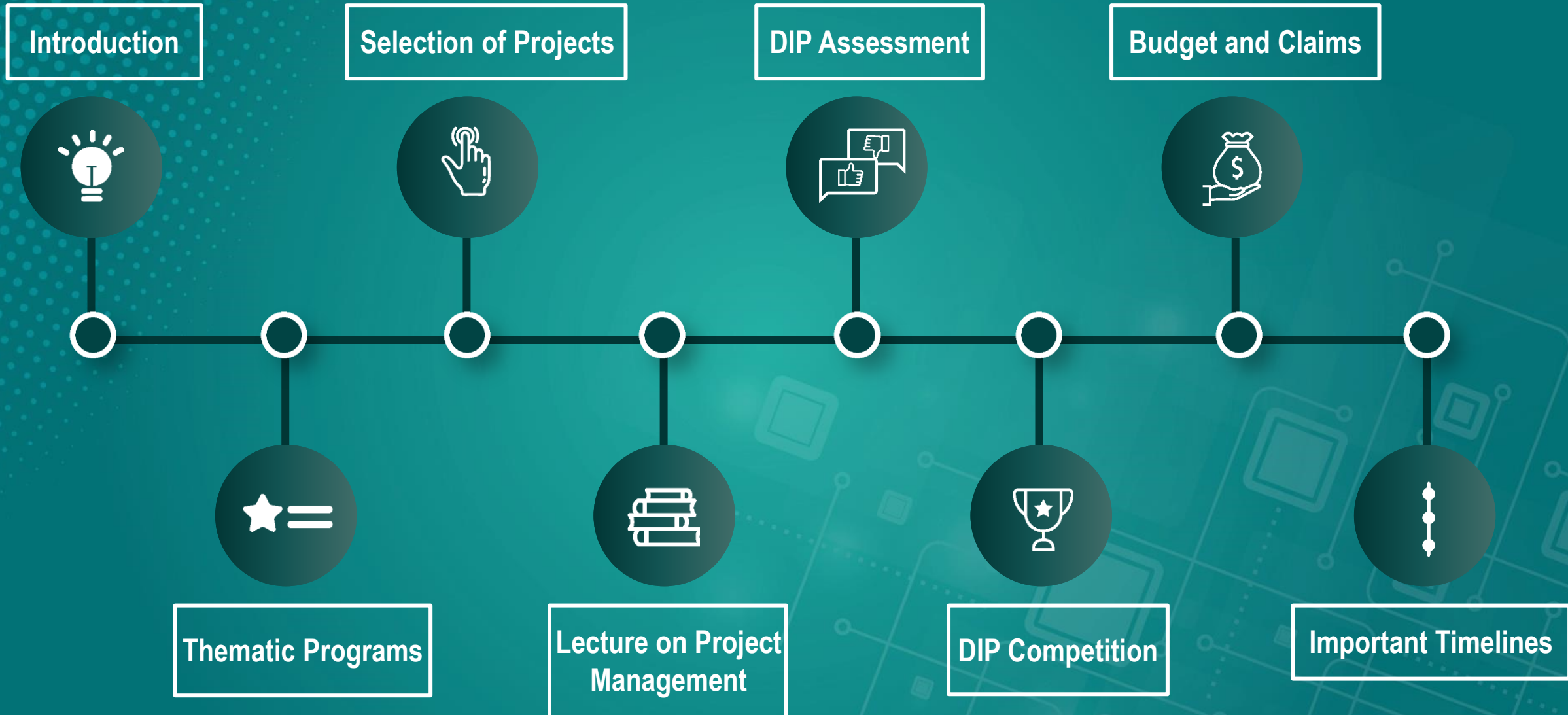
**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

DESIGN AND INNOVATION PROJECT (DIP)

● ————— **EE3080 DESIGN AND INNOVATION PROJECT**

EEE DIP CHAIRMAN: DR. MUHAMMAD FAEYZ KARIM

OUTLINE



INTRODUCTION



Compulsory for all
full-time third year
EEE students



2-AU



Carried out in
Semester 1 and 2



INTRODUCTION



Design



Simulate



Prototype



Test

INTRODUCTION



Project Group between 5 - 7 students

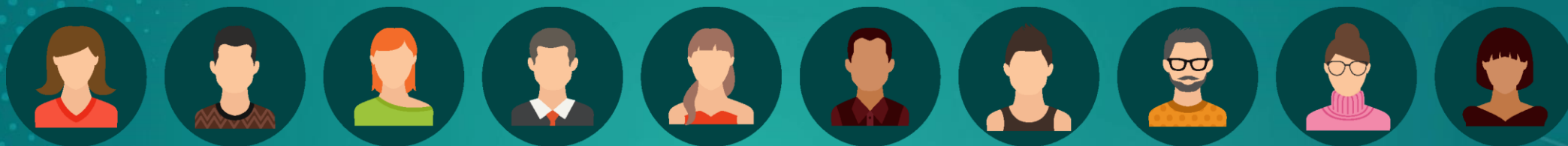


**Nominate
Group Leader**



**Nominate
Treasurer**

INTRODUCTION



Project Group between 5 - 7 students



Assigned a lab



Supervised by up to 2 faculties

INTRODUCTION



Project Group between 5 - 7 students

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



**Smart and Micro
Grids for
Integration of
Renewable Energy
Sources**

Coordinator:
Prof Wang Peng



Cyber Security

Coordinator:
Dr Chan Chee
Keong



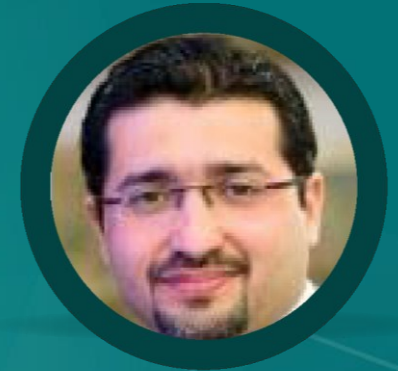
**Smart Electronics
& Electromedical
Technologies**

Coordinator:
Dr. Ji Jon Sit



**UAVIONICS
(Sem 1)**

Coordinator:
Prof Lim Meng Hiot



**Smart Mobile Apps
(SMAPPS)**

Coordinator:
Dr. Muhammad
Faeyz Karim

★= THEMATIC PROGRAMMES



Robotics (Sem 2)

Coordinator:
Prof Hang Wan



Photonics, Radar and Satellite Systems

Coordinator:
Prof Wei Lei



Machine Learning and Data Analytics

Coordinator:
Prof Jiang Xudong



Escape Game Design & Implementation

Coordinator:
Prof Liu Linbo

LECTURE ON PROJECT MANAGEMENT

TEL- Project Management

Complete, Friday of Week 3



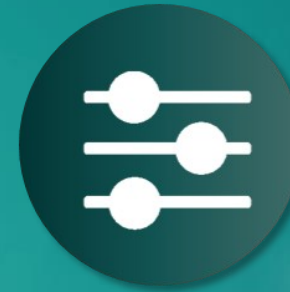
Initiate



Plan



Execute



Monitor and Control



Close



3 Hour Lecture



Compulsory



DIP ASSESSMENT

Supervisor

A+

Moderator

Overall Individual Grade



Progress Blogs – Individual & Group



Project Charter



Project Report



Oral Presentation



Attendance and Participation



Logbook/Interview



Demonstration



Project Report



DIP ASSESSMENT

Progress Blog

<https://blogs.ntu.edu.sg/ee3080-2122s1-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.



DIP ASSESSMENT

Project Charter

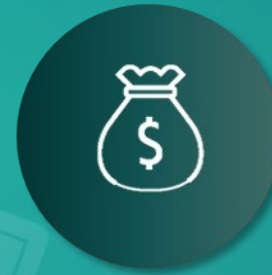
Submit report by 23:59, Friday of Week 4



**Project
Description**



Milestone



Budget



Risk



Project Charter template is available on the EEE DIP website



DIP ASSESSMENT

Final Group Project Report

Submit report by 23:59, Monday of Week 13 **(NEW)**



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



Project Report template is available on the EEE DIP website



DIP ASSESSMENT

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.



Peer review is available on Studentlink



DIP ASSESSMENT

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



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

- DIP Competition Result
- Ranking in Peer Review



Peer review is available on Studentlink



DIP COMPETITION

DIP COMPETITION DATE

Monday of Week 14



Projects within respective thematic programmes will compete against each other



Each student of the winning project will receive a certificate



Competition results will be used as reference for final assessment results



BUDGET AND CLAIMS



Existing resources in labs should be utilised



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



Every purchase should be approved by Project Supervisor



BUDGET AND CLAIMS

PURCHASE OF REQUIRED COMPONENTS

Cost < \$200/claim

Supervisor to
make petty
cash claim

Cost > \$200/claim

Student needs
to seek email
approval as
follows:

Student

Supervisor

DIP Coordinator

Area Lead

IMPORTANT TIMELINES

1 BRIEFING SESSION
11TH August
(1:30PM-3:00PM)

2 PROJECT
MANAGEMENT
LECTURES
Complete Online
27th August

3 DEADLINE
FOR PROJECT
CHARTER REPORT
3rd September

4 DEADLINE FOR
REPORT
SUBMISSION
8TH November

5 DEADLINE FOR
PEER REVIEWS
6 DEADLINE FOR
PROGRESS BLOG
12TH November

7 OFFICIAL DATE OF
DIP COMPETITION
15TH November
MONDAY OF WEEK
14TH

DISCLAIMER STATEMENT

NTU/School of EEE will not be liable for any damage or loss of personal items used in the project.

RESOURCES



More information and updates at:

<https://ts.ntu.edu.sg/sites/intranet/cs/eee/UGProg/FTUGProg/dip/Pages/dipIntro.aspx>