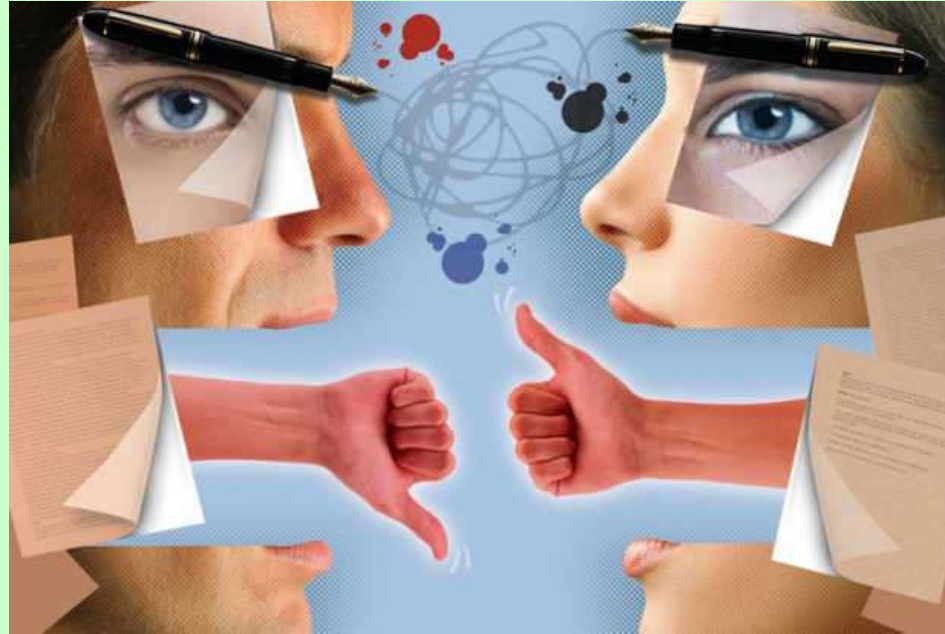


SBS5499 Final Year Project 3 (MEP Design)

<http://ibse.hk/SBS5499/>



Feedbacks on Progress Report & Design Report

Thei

Apr 2019

Feedbacks



- Objectives:
 - Provide feedbacks on Progress Report & Design Report for the whole class
 - Discuss the good & weak points of the students
 - Prepare for the final stage of the design project
- Feedbacks for each student group & individual student can be found on Moodle

Feedbacks



- Assessment results for the whole class
 - Total number of students: 105 (22 groups)
 - Combined results for Progress report (10%) + Design report (40%):
 - Mean = 70.3 (B)
 - Median = 67.2 (B-)
 - Standard deviation = 12.7
 - Range: D to A
 - The performance is better than Semester 1: FYP1 Conceptual Design



Feedbacks



- Top 10 students:
 - 170437195 TO Ho Yin Kevin (Group 19)
 - 170690649 LEUNG Hoi Man (Group 06)
 - 170363177 KWONG Kin Shing (Group 19)
 - 170264857 NG Ka Ying (Group 15)
 - 170206504 NG Yi Yan (Group 15)
 - 170352716 TSE Tsz Fung (Group 19)
 - 170203723 FUNG Ching Hong (Group 06)
 - 170356985 KWOK Ka Po (Group 19)
 - 170360206 TAM Wai Hoi (Group 07)
 - 170011203 CHEUNG Jeremy Daniel (Group 22)



Feedbacks



- Overview:

- Average class performance is GOOD (B-, Mean = 70.3)
- Progress reports (10%) are VERY GOOD (B, Mean = 74.1)
- Design reports (40%) are GOOD (B-, Mean = 69.2)
- Design reports: number of pages: 77 to 600 (Mean = 236, total 5,200 pages for 22 groups)
 - Be environmentally friendly: not to print all of them & use electronic files for assessment/design review
 - Should delete general & irrelevant information in the report (e.g. full equipment catalogues)
 - Should summarise results & reduce unnecessary details (e.g. DIALux or HAP reports)



Feedbacks



- Good points:
 - Drawing skills (schematic diagrams & layouts) of some groups are very good
 - Report organization & design considerations of some groups are good
 - Good use of figures/diagrams to explain design arrangements (instead of words/texts)
 - Good attempt to propose renewable energy systems, GB features & BIM strategy

Feedbacks



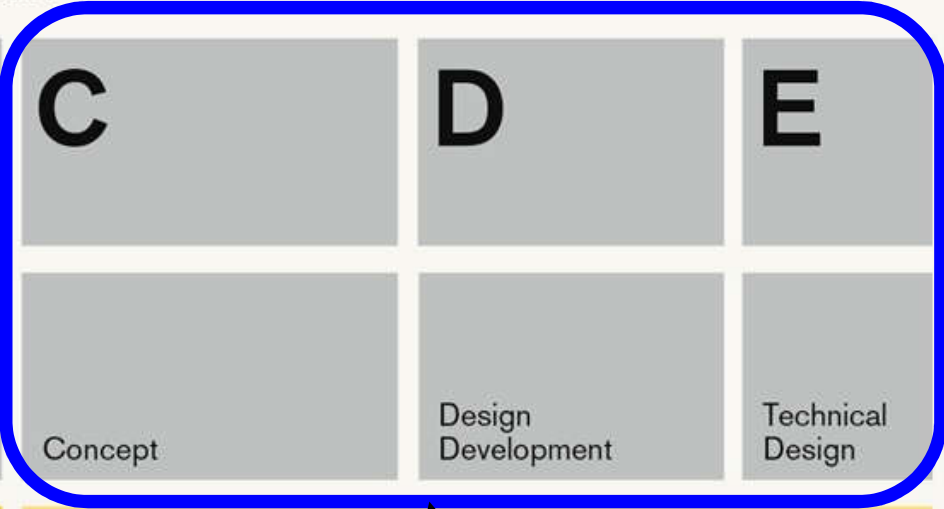
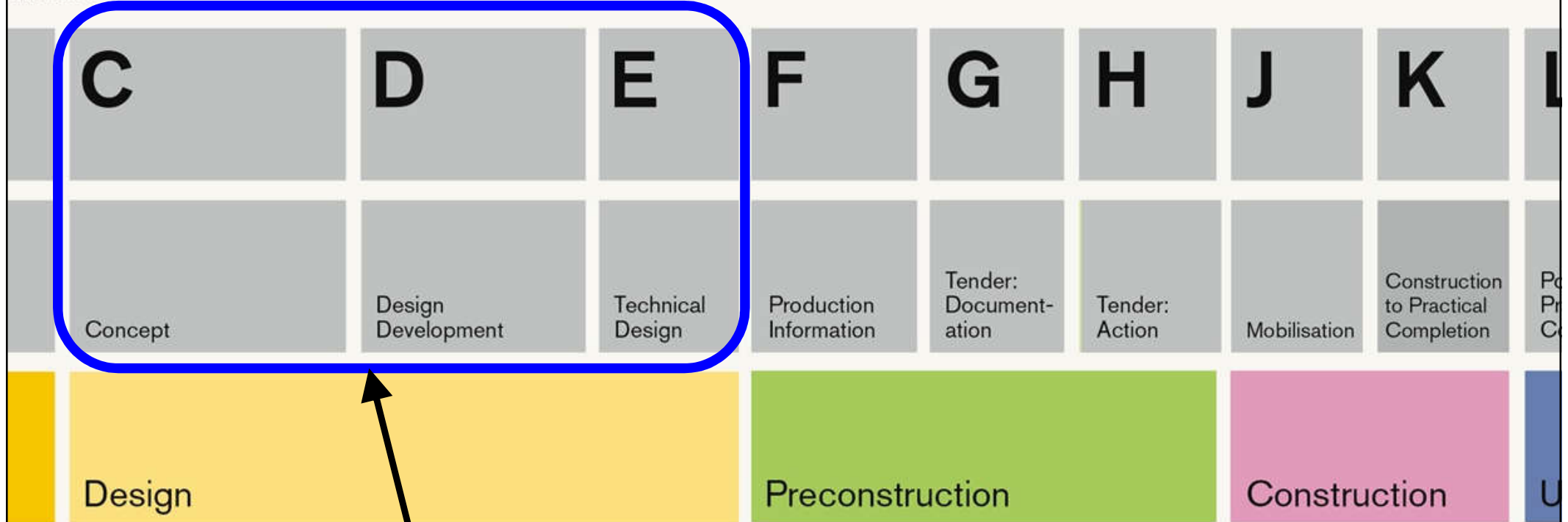
- Things to improve:
 - Should check to reduce obvious errors & mistakes
 - Should develop full details for plant rooms & typical spaces (to demonstrate detailed design)
 - Should explain the strategy for MEP coordination & BIM execution
 - Should prepare equipment schedules for future tendering
 - Misunderstanding about lighting design method (“the art and science of lighting”)

RIBA Plan of Work 2007/2013 (stages of design process)

Plan of Work 2007



ork 2007



FYP1 Conceptual Design + FYP3 Detailed Design

Prepare for the final stage



- Key issues (at detailed design stage)
 - Developed schematic diagrams (to show all essential components & information clearly)
 - Layout plans (for plantrooms & typical spaces, to show location, distribution & spatial allocation)
 - Coordinated working drawings (for MEP coordination, e.g. plans, sections, 3D views, builder's work)
 - Diagrams (to explain design arrangements)

Prepare for the final stage



- Key issues (at detailed design stage) (cont'd)
 - Calculations (samples for major design tasks)
 - Design arrangements (confirm systems, sizing, location, routing, interface)
 - Design strategies (plant, energy, green, T&C, O&M, costs, construction programme)
 - Equipment schedule (list of major equipment & requirements, prepare for tendering)
 - Specifications (materials, workmanship, performance)

Prepare for the final stage



- What's Next:



- Select & prepare information for oral presentation and poster (pull-up banner) exhibition
- Final Design Report (full details of design solutions, may refer to previous reports)
- Technical designs and specifications (prepare for tendering and installation)
- Design coordination and integration (examples)
- Finalise details on calculations, drawings, zoning, interface and schedules

Prepare for the final stage



- Assessment Methods:

- Progress (10%) [DONE]
- Design Report (40%) [DONE]
- Exhibition (10%)
- Oral Presentation (10%)
- Final Design Report (30%)
 - Report due date: 17 May 2019 (Fri)



} 26 Apr 2019 (Fri)

