EVALUATION FORM FOR EXTERNAL EXAMINATION - DROIFCT (F) 448

| EVALUATION FO | ORM FOR EXTERNAL EXAMINATION - PRO | JJECI (| (E) 440 | |
|--------------------------------------|---|-----------------|-----------------------|--|
| Candidate's initial surname and SU# | | | | |
| Project title | | | | |
| Examiner's name (| (print) Examiner's signat | ure | | |
| | | | | |
| Comments / Opmerkin | gs: | | | |
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| Preliminary Mark From convener form) | Final Mark (External) Tick (*) to ve to ELO(s) not | verify fail due | | |
| Are the ELOs satisfie | d at the level expected of a recent BEng graduate? | | | |
| Exit Level Outcome | | | ither Yes each ELO | |
| (ELO) | | Yes | No | |
| 1 Droblom Colving | - Identify problem 1 colution criteria: | | гэ | |

| Exit Level Outcome | Assessment Items | | Tick (✓) either Yes or No for each ELO | | | |
|---|---|---|---|---|----|--|
| (ELO) | | | Yes | | No | |
| 1. Problem Solving (identify, assess, formulate and solve convergent and divergent engineering problems). | Identify problem + solution criteria; Identify engineering info required for solution; Formulate solution approaches; Model/ analyze solutions; Evaluate solutions; Formulate / present the solution. | [|] | [|] | |
| 2. Application of Scientific and Engineering Knowledge | Use Engineering knowledge and methods Formal analysis and modeling; Communicate concepts, ideas and theories; Reasoning and conceptualizing using components; Dealing with uncertainty. Use Physical laws as foundation Formal analysis and modeling; Reasoning and conceptualizing using physical principles. Use techniques, principles and laws of engineering | [|] | [|] | |

| | science Identify and solve open-ended engineering problems; Work across engineering disciplinary boundaries (shared fundamental knowledge). | | | | |
|---|---|---|---|---|---|
| 3. Engineering Design (procedural and non- procedural design and synthesis of components, works, products and processes) | Identify/formulate problem to satisfy user needs, applicable standards, code of practice and legislation; Plans and manages the design process; Acquires and evaluates requisite knowledge; Performs design tasks, quantitative modeling and optimization; Evaluate alternatives (judgment, implement ability and techno economic analysis); Assesses impact and benefits; Communicates design logic and information. | [|] | [|] |
| 4. Investigations, experiments and data analysis (design and conduct investigations and experiments) | Plan and conduct investigations/ data analysis; Conducts critical literature search; Performs analysis; Select and use equipment/ software; Analysis/ interprets information from data; Draws conclusion (evidence); Communicates purpose, process and outcomes in report. | | | [|] |
| 5. Engineering Methods, Skills and Tools, including Information Technology (methods, skills and tools, including those based on information technology) | Uses method, skill and tools by: Selecting/ assessing the applicability/ limitations of the methods, skills and tools; Properly applying the method, skill or tool; Critically testing and assessing the results produced. Creates computer applications | | | [|] |
| 6. Professional and Technical Communication (effective oral and written communication) | Written communication: Uses appropriate structure, style and language for purpose/ audience; Uses effective graphical support; Applies engineering methods of providing information; Meets the requirements of the intended audience. Oral communication: Uses appropriate structure, style and language; Uses appropriate visual materials; Delivers fluently; Meets the requirements of the intended audience. | |] |] |] |
| 9. Independent learning ability (independent learning through well-developed learning skills) | Reflects on own learning and determines requirements and strategies; Sources and evaluates information; Assesses comprehends and applies knowledge acquired outside formal instruction; Critically challenges assumptions and embraces new thinking. | [|] | [|] |