



Name of the Program: B. Sc. in Civil Engineering
Semester: 8th Semester

Date: 23 February, 2023
Time: 10:00 am –11:30 am

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Mid Semester Examination
Course Number: HUM 4851
Course Title: Practice, Communication, and Professional
Ethics

Summer Semester: 2021 - 2022
Full Marks: 75
Time: 1.5 Hours

There are 4 (Four) questions. Answer any 3 (Three) questions. Do not write on this question paper. Marks of each question and corresponding CO and PO are written in the brackets.

1. (a) The National Transport Authority, a public sector organization decided to take a project under Public Private Partnership modality to construct a new '10 lane express-way' connecting the capital city with a newly constructed land port. Along with road, several bridges, flyovers etc. have to construct under the project. The Authority officially requested a company 'Exe Limited' to submit a proposal for this project. The Authority also supplied its prescribed format for proposal submission. Subsequently 'Exe Limited' has submitted its project proposal within the stipulated time to the Authority. (15)
(CO1)
(PO11)
- What kind of project proposal has 'Exe Limited' submitted to the Authority? Explain with justification. Also explain the positive aspects of this type of project proposal in comparison with other types of project proposals.
- (b) Distinguish between 'Intellectual & Professional Services' and 'Physical Services' using relevant example for each. (10)
(CO2)
(PO6)
2. (a) In the university, the final year students of the Civil Engineering Department are tasked with an individual design project. Each student's subject of design will be unique. The students are provided one year time to complete the project. At the start, the students are required to submit a proposal about his/her proposed project. This project is designed by the course designer as a test about students' aptitude and readiness for undertaking an actual life project. While doing their respective projects, the students have to use all the relevant theoretical and practical knowledges that they acquire during their academic life. This helps to update and hone the students' knowledge, skills and attitude towards facing real life projects. (15)
(CO1)
(PO11)
- Explain the characteristics of a project using examples from the above literature. While explaining, compare the characteristics of project with that of an operational activity.
- (b) Explain, with justification, how an event can be considered as 'Force Majeure'. Support your answer with TWO examples. (10)
(CO2)
(PO6)
3. (a) The university has decided to offer a new degree- "Masters in Construction Project (15)

Management". The course will be launched under Civil Engineering Department of the university. The Head of Civil Department was assigned to complete all the necessary activities which would be required for launching this masters course. Activities include preparation of curriculum, enrichment of existing library (both physical and digital libraries), collaboration with international university(s) for this course, obtaining approval from university governing board as well respective government authority, recruiting new faculties etc. The Head has selected one Assistant Professor and two Lecturers of Civil Department in her team. These team members are responsible for the tasks that will be assigned to them for this endeavor. The Head will be responsible for planning, organizing, coordinating and controlling the activities as well as managing her team. The Head has also recruited a Financial Expert in the team. It was also decided that a higher-level committee will provide guidance and oversight for the endeavor. While planning for the activities, the Head found that he would require some information from several departments of the university. For example- budget planning will require input the Accounts Department, new faculty recruitment planning will require input from Human Resources (HR) Department. Though the Head will not be a reporting authority of these persons, the assigned persons of those department will provide necessary support to the team. (CO1) (PO11)

Explain all the types of stakeholders that are mentioned in the above case scenario. Explain using relevant examples from the case.

- (b) Explain the following terms with relevant examples (10)
- i. Employer (CO2)
 - ii. Engineer (PO6)
 - iii. Contractor
4. (a) Explain why for the construction sector projects, most of the time, the project lifecycle curve looks like an 'S- curve'. Support your answer with examples of different phases of project lifecycle. (15) (CO1) (PO11)
- (b) Construct a case scenario where you can use 'Performance-based' type of contract. Provide justification how your constructed scenario is better suited for 'Performance-based' type of contract rather than 'Admeasurement' or 'Lump sum' types of contracts. (10) (CO2) (PO6)