American International University- Bangladesh (AIUB)
Faculty of Engineering (EEE)
Subject: Engineering Ethics

Course Name:	Engineering Ethics	**Course Code:**	EEE 3107
Semester:	Fall 21-22	**Item:**	Assignment
Student Name:	**Md. Nazim Hasan**	**Student ID:**	**19-40118-1**
Department:	**Bsc in CSE**	**Section:**	**E**

Case 1:

As a consulting engineer you were asked to monitor a water supply project financed by an NGO and handled by local water users committee at Natore district. The project must be completed by the end of December 2020; otherwise the donor would stop the payment. When you visited the site at the middle of May 2020, you found that the project was not completed. The users committee requested to submit the completion report so that they could finish the work after some time and will be beneficial to 100 household of the project. Answer the following questions.

a. In your opinion, who is/ are responsible to finish the project in time?
b. Water is basic need for the people. As an engineer, what is your role to continue the project and to finish it in time?
c. Discuss different options for the engineer in reporting the project progress status, considering personal integrity.

a. In your opinion, who is/ are responsible to finish the project in time?

=> In my opinion, the manager is responsible to finish the project in time. When a project is handed over to a manager, Managing time is an important part of a manager. It helps to break down projects, assign tasks, and complete the projects on time. Fortunately, with a bit of effort, he/she can implement project management strategies that not only make he/she more efficient but might actually make the working life more enjoyable. In mentioned situation, it can be observed that a water supply project which is being handled by the local water user committee. As planned the project should be ended by the end of 2020 but it seems that at the middle of May 2020, the project is not completed yet. But problems arise where the users committee requested to submit a completion report as if there's no progress the NGO won't provide any financial support for the project. But the initial date may be agreed by all concerned, however, requirements may change, issues are likely to emerge, and the expectations for the project may be modified. The true responsibility of the PM is delivering the project to the satisfaction of the key stakeholders, which will be delivered against a combination of date, cost, scope, and quality, where these are agreed initially and then modified (re-negotiated) during the life of the project. A successful PM will avoid giving the stakeholders unpleasant surprises by keeping them fully informed of risks and issues, and the impact on them, and agree with the approach to dealing with each of these - which may be to move timelines, reduce scope, add resources (financial or otherwise), or accept certain risks and the associated consequences.

b. Water is basic need for the people. As an engineer, what is your role to continue the project and to finish it in time?

=> As an engineer, he/she must be concerned about public health, public safety. Water is a basic need of human being so supplying pure water also need to be ensured as well. In the mentioned scenario, the project should be ended by the end of 2020 but it seems that in the middle of May 2020, the project is not completed. As an engineer can be responsible to handle this kind of situation, an engineer can create new preparing, rescheduling, coordinating also monitoring of the assigned project. He/ She can formulate project parameters and assign responsibilities to the most capable employees and monitor the project team. Proper interaction with the UGO, interpreting their needs and requirements and representing them in the field. An engineer can perform quality control tasks on budgets cause this project is directly related to public health. If a person drinks dirty water he can be sick as well so proper testing needed to be done. As the project must need to finish on time engineers can cooperate and communicate with the project manager and other project participants and also collaborate with senior engineers to create more efficient project methods and to maintain the project's profitability. Engineering creates new frameworks to measure the project's metrics and data collection. An engineer can follow the mentioned responsibilities to continue and finish the project on time.

c. Discuss different options for the engineer in reporting the project progress status, considering personal integrity.

=> Integrity is the quality of having strong ethical principles that are followed at all times. Honesty and trust are central to integrity, as is consistency. A person with integrity demonstrates sound moral and ethical principles and does the right thing, no matter who's watching. Integrity is the foundation on which coworkers build relationships and trust, and it is one of the fundamental values that employers seek in the employees that they hire. People who demonstrate integrity draw others to them because they are trustworthy and dependable. As employees, they are principled and you can count on them to behave honorably. Honesty, Responsibility, Accountability, Benefits of Integrity are some facets of integrity in the workplace. Personal integrity is important for a lot of reasons, but it mostly boils down to it being the right thing to do. When we have integrity, it's like he/ she is committed to doing the right things, no matter what. He/ She with high integrity is more likely to feel content in life since they know what their values and priorities are and aren't afraid to take action to pursue them. A project progress status report is a document that describes the progress of a project within a specific period and compares it against the project plan. Project managers use status reports to keep stakeholders informed of progress and monitor costs, risks, time, and work. This report includes work that's been completed, a plan for what will follow, a summary of the project budget and schedule, A list of action items, Any issues and risks, and what's being done about them.