

ENGINEERING LAW TEST

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MAT NO:17/ENG06/075

DEPT:MECHANICAL ENGINEERING

QUESTION

You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country. As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria

Being organized and on time is crucial for engineering project management. One of the best ways to ensure that your team stays on schedule is by deducing ahead of time how long each leg of the project should take. To determine the time frame, engineering managers use the Project Evaluation and Review Technique (PERT) that begins by mapping out what needs to be done and then sequencing each milestone (commonly called an event) in the project.

The engineering project manager then determines the maximum and minimum amount of time each event will take from start to finish using a complementary method to PERT called the Critical Path Method (CPM). A careful analysis showing which events depend on other events is completed. This very effective method that couples time requirements with workflow allows fluctuation for certain events and constraint for others, keeping the project in perfect balance.