

**MAKERERE UNIVERSITY BUSINESS SCHOOL  
BACHELOR OF BUSINESS ADMINISTRATION  
COURSE NAME: ADVANCED ICT  
MS PROJECT CLASS CASE STUDY III, 2025/2026**

**CASE STUDY FOUR**

Arua City Transport Association is in the process of developing new information systems for a variety of its association member operations. Study the WBS below and use MS project to produce a project for the schedule clearly showing the project start date, end date and task durations and dependencies.

Task No	Task Name	Duration	Predecessor	Resources
	Arua City Transport System Project			
<b>1</b>	<b>System Planning</b>			
1.1	Feasibility Study	5 weeks	-	PE
1.2	Stakeholder Mapping	3 weeks	1.1	PE
1.3	Planning workshop	1 weeks	1.2	PE
1.4	System Planning Complete	0 weeks	1.3	PE
<b>2</b>	<b>System Analysis &amp; Design</b>			
2.1	Prototype model design	4 weeks	1.4	SD,SA
2.2	Purchase of primitive hardware tools	1 weeks	2.1	SA,PD
2.3	Process Model Prototype	3 weeks	2.2	SD,SA,PD
2.4	Data Model Prototype	4 weeks	2.3	SD,SA, PD
2.5	Process and Data Prototype Integration	2 weeks	2.4	SAPD
2.6	System Analysis & Design Complete	0 weeks	2.5	PE
<b>3</b>	<b>System Testing</b>			
3.1	Testing Awareness Campaign	3 weeks	2.6	PE,SA
3.2	Setting Testing Condition	2 weeks	3.1	SA,PE,PD
3.3	Unit Testing	2 weeks	3.2	SA,PE,PD
3.4	System and Integrated Testing	1 week	3.3	SD,SA
3.5	User Acceptance Test	1 week	3.4	PE
3.6	Alpha Testing	2 weeks	3.5	SD,PD,PE

3.7	System Tested	0 weeks	3.6SS	
<b>4</b>	<b>System Training</b>			
4.1	Staff Training Awareness	1 weeks	3.7SS-1Week	ST,PE
4.2	General Staff Training	3 weeks	4.1	ST,PD
4.3	Departmental Training	2 weeks	4.2	ST,PD
4.4	User training	3 weeks	4.3	ST
4.5	Branch training	3 weeks	4.4	ST
4.6	Customer Training and Partner Training	2 weeks	4.5	ST
4.7	Staff trained	0 weeks	4.6	
<b>5</b>	<b>System Maintenance</b>			
5.1	Data Aggregation		4.7FS+1 Week	
5.2	Manual Data Transfer	3 weeks	5.1	SA,SD
5.3	Implementation Status Report	2 weeks	FS	PE
5.4	Final System working Report	2 weeks	SS	PE,SA,SD
5.5	Transport System Implemented	0 weeks	SS	

### Project Resource Table

Resource Name	Resource Type	Resource Cost
Project Engineer (PE)	Work	UGX 30,000 Per hour
System Developer (SD)	Work	UGX 40,000 Per hour
System Analyst (SA)	Work	UGX 20,000 Per hour
Process Designer (PD)	Work	UGX 20,000 Per hour
Systems Trainer(ST)	work	UGX 15,000 Per hour

### Required;

- a) Using Ms Project 2016 software, Create a Project File called Arua City Transport System Project and save it in your Folder on the desktop
- b) Set the project start date as 1<sup>st</sup> July 2026
- c) Set all Saturdays and Sundays as working days with work stopping at 1 PM on these two days
- d) Set the default duration to weeks

- e) Indent the main project , main activities and related tasks to ensure logical duration
- f) Enter the above tasks in the Ghant Chart with their respective duration
- g) Link the various task with their predecessor provided in the WBS table above
- h) Enter the project resources in the resource sheet
- i) Assign the various resources as to the various tasks as indicated in the WBS
- j) Determine the project end date. Write the answer in this space
- k) Determine how long the project will take. Write your answer in this space
- l) All tasks should be 100% complete.
- m) Determine the total cost for each activity in the project. Write your answer here
- n) Using the project resources assigned and their resource costs, what is the total cost or budget for the entire project after 100% completion of tasks? Write the answer here