

MATHEMATICAL MODELLING TRAINING SCHEDULE; 23RD - 26TH OCTOBER 2023

Time	Item	Facilitators
	Day 1: 23rd October 2023	
9:00 - 9:30 am	Opening Remarks and Welcome	Abel Wilson Walekhwa
9:30 - 10:00 am	Introduction to Mathematical Modeling	Abel Wilson Walekhwa
10:00 - 10:30 am	Overview of Epidemic Modeling	Abel Wilson Walekhwa
10:30 - 10:45 am	Break	
10:45 - 11:15 am	SIR Models: Basics and Parameters	Dr. Sylvia K Ofori
11:15 - 11:45 am	SEIR Models: Introduction and Application	Dr. Sylvia K Ofori
11:45 - 12:15 pm	Other Epidemiological Models (SIRS, SIS, etc.)	Dr. Sylvia K Ofori
12:15 - 12:30 pm	Q&A Session	Proscovia Nakasujja
12:30 - 1:30 pm	Lunch Break	
1:30 - 2:30 pm	Practical Exercise: Building a Compartmental Model	Dr. Robert Ofwete
2:30 - 3:00 pm	Interactive Group Discussions on Model Building	Dr. Robert Ofwete
	Day 2: 24th October 2023	
9:00 - 9:15 am	Recap of Day 1	Proscovia Nakasujja
9:15 - 9:45 am	Common Assumptions in Mathematical Modeling	Prof. Betty Kivumbi Nannyonga
9:45 - 10:15 am	Evaluating Assumptions: Data and Evidence	Prof. Betty Kivumbi Nannyonga
10:15 - 10:30 am	Break	

Time	Item	Facilitators
10:30 - 11:00 am	Model Validation Techniques	Prof. Betty Kivumbi Nannyonga
11:00 - 11:30 am	Sensitivity Analysis: Concepts and Importance	Prof. Betty Kivumbi Nannyonga
11:30 - 12:00 pm	Practical Sensitivity Analysis Using Python	Prof. Betty Kivumbi Nannyonga
12:00 - 12:15 pm	Q&A Session	Proscovia Nakasujja
12:15 - 1:30 pm	Lunch Break	
1:30 - 3:00 pm	Interactive Group Discussions on Model Validation	Dr Robert Ofwete
3:00 – 4:00pm	COVID-19 JHU Dashboard	Ensheng Dong, JHU
	Day 3: 25th October 2023	
9:00 - 9:15 am	Recap of Day 2	Proscovia Nakasujja
9:15 - 9:45 am	Introduction to Policy Briefs	Abel Wilson Walekhwa
9:45 - 10:15 am	Components of an Effective Policy Brief	Abel Wilson Walekhwa
10:15 - 10:30 am	Break	
10:30 - 11:00 am	Translating Model Results into Policy Insights	Abel Wilson Walekhwa
11:00 - 11:30 am	Audience Analysis and Framing Issues	Abel Wilson Walekhwa
11:30 - 12:00 pm	Practical Exercise: Writing a Policy Brief	Abel Wilson Walekhwa
12:00 - 12:15 pm	Q&A Session	Proscovia Nakasujja
12:15 - 1:30 pm	Lunch Break	
1:30 – 3:00 pm	Interactive Group Discussions on Policy Briefs	Abel Wilson Walekhwa
3:00 – 4:00pm	Development of mobility models and measles and social media analysis	Ensheng Dong, JHU

Time	Item	Facilitators
	Day 4: 26th October 2023	
9:00 - 9:15 am	Recap of Day 3	Abel Wilson Walekhwa
9:15 - 9:45 am	Scientific Manuscript Writing: Structure and Guidelines	Dr. Sylvia K Ofori
9:45 - 10:15 am	Identifying PhD Opportunities and Fellowships	Abel Wilson Walekhwa
10:15 - 10:30 am	Break	
10:30 - 11:00 am	Presentation Skills: Effective Communication of Findings	Dr. Sylvia K Ofori
11:00 - 11:30 am	Final Q&A and Discussion Session	Dr. Sylvia K Ofori
11:30 - 12:00 pm	Closing Remarks	Prof Nazarius Mbona Tumwesigye Dr Simon Kasasa
12:00 - 1:30 pm	Lunch Break	