Provisional timetable – Introduction to Infectious Disease Modelling and its Applications (online course)

Activity	Monday, 15 th June	Tuesday, 16 th June	Wednesday, 17 th June	Thursday, 18 th June	Friday, 19 th June
	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
	Welcome and introduction to	Review of S2	Review of S3:	Review of S4:	Review of S5 and S6
	the course	Q&A session on Collaborate	Q&A session on Collaborate	Q&A session on	Q&A session on
				Collaborate	Collaborate
	EV, RW, NM				
	14.30-16.00	14.30-16.00: Guest lecture	14.30-16.00: Guest lecture on	14.30-16.00: Guest lecture	14.30-16.00: Guest
	Live lecture with questions:	on the applications of	the applications of modelling	on the applications of	lecture on the
	S1. Introduction the	modelling TBC	ТВС	modelling TBC	applications of modelling
	epidemiology of infections				ТВС
	Lecturer: PF				
Suggested	S2. Basic methods for setting	S3. Basic methods for	S4. Natural dynamics of	S5. Review of block 1	S8. Contrasting the
self-study	up models: difference	setting up models:	infections	S6. Analysing	effects of rubella
material	equations	differential equations		seroprevalence data	vaccination between high
for review					and low transmission
at 2pm on					S9 Simulating the effects
next day					of non-random mixing on
					transmission and control

All listed times are UK time (UTC + 1).

Activity	Monday 22 nd June	Tuesday 23 rd June	Wednesday 24 th June	Thursday 25 th June	
	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
	Review of S8&9:	Review of S8&6: Q&A	Review of session 12: Q&A	Review of session 13, 14,	Review of session 18, 19,
		session on Collaborate	session on Collaborate	15: Q&A session on	20 [10 mins per topic]
	Q&A session on Collaborate			Collaborate	
	[15 mins per topic]				
	14.20.16.00: Cuest lecture on	14 20 16 00: Cupst locture	14 20 16 00	14 20 16 00	14 20 15 20
	14.50-10.00. Guest lecture of	14.50-10.00. Guest lecture	14.50-10.00	14.50-10.00	14.50-15.50
	the applications of modelling	on the applications of	Live lecture with questions	Live lecture with questions	Guest lecture on the
	IBC	modelling IBC	S13: Economic evaluation of	S17: Real-time modelling	applications of modelling
			infectious disease		
			interventions	Lecturer: SFI	ТВС
			Lecturer: MJ		
Suggested	S10. Estimating basic	S11. Review of block 2	Practical: S13 Health	S18 STI modelling	15.30-16.00
self-study	reproduction numbers for	S12. Stochastic modelling	economics and sensitivity	S19 TB modelling	
material	non-randomly mixing		analysis: Cost-effectiveness	S20 Malaria modelling	Course farewell and end
for review	populations		of seasonal influenza	C C	of course
at 2pm on	1. 1		vaccination		
next day			Optional recorded lastures		
inche day			S14 Fitting models to date U		
			S14: Fitting models to data II -		
			numerical optimisation and		
			Sensitivity analysis		
			ST2 Network modelling		

Lecturers

Paul Fine (LSHTM) Stefan Flasche (LSHTN) Mark Jit (LSHTM) Nicky McCreesh (LSHTM) Tom Sumner (LSHTM) Emilia Vynnycky (PHE/LSHTM) Richard White (LSHTM) Laith Yakob (LSHTM)

Current confirmed guest speakers and topics:

Edwin van Leuwen (PHE) – contact matrices and effect of social distancing (provisional title) Paul Birrel (PHE) – real-time COVID modelling (provisional title) Andre Charlett (PHE) – data issues for COVID modelling Hans Heesterbeek – R₀