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**EPIDEMIOLOGY** Epidemiology is the subject that studies the patterns of health and illness and associated factors at the population level. The word “epidemiology” is derived from the Greek terms epi which means “upon”, demos which means “people”, and logos which means “study”.

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comprehensive introduction to  
basic ideas and techniques in  
modeling infectious diseases, for

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the comparison of strategies to plan for an anticipated epidemic or pandemic, and to deal with a disease outbreak in real time.

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It includes (i) an introduction to the main concepts of compartmental models including models with heterogeneous mixing of individuals and models for vector-transmitted diseases, (ii) a detailed analysis of models for important specific diseases, including tuberculosis, HIV/AIDS, influenza, Ebola virus disease, malaria, dengue fever and the Zika virus, (iii) an introduction to more advanced mathematical topics, including age structure, spatial structure, and mobility, and (iv)

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Mathematical Models in  
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Mathematical models can project  
how infectious diseases progress  
to show the likely outcome of an  
epidemic and help inform public  
health interventions. Models use  
basic assumptions or collected  
statistics along with mathematics  
to find parameters for various  
infectious diseases and use those  
parameters to calculate the effects  
of different interventions, like  
mass vaccination programmes.  
The modelling can help decide  
which intervention/s to avoid and  
which to trial, or can predict future  
growth

Mathematical modelling of

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The first contributions to modern mathematical epidemiology are due to P.D. En'ko between 1873 and 1894 (En'ko, 1889), and the foundations of the entire approach to epidemiology based on compartmental models were laid by public health physicians such as Sir R.A. Ross, W.H. Hamer, A.G. McKendrick, and W.O. Kermack between 1900 and 1935, along with important contributions from a statistical perspective by J. Brownlee.

Mathematical epidemiology: Past, present, and future ...

The mathematical approach is complex and not an introduction to the field. The formalism and definitions in symbolism is not

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presented for epidemiologists. Public health professionals will find it a difficult read, restricting its use to specialized mathematical and statistics circles.

An Introduction to Mathematical Epidemiology (Texts in ...  
Introduction to Mathematical Epidemiology: Deterministic Compartmental Models Nakul Chitnis Universit at Basel Mathematisches Institut Swiss Tropical and Public Health Institute Autumn Semester 2011 1  
Introduction Deterministic compartmental models form the simplest models in the mathematical study of infectious disease dynamics.

Einführung in die Mathematische  
*Page 13/17*

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Epidemiology & Control of  
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The epidemiology of infectious  
diseases has moved beyond  
identifying aetiological agents and  
risk factors to a more detailed  
understanding of the mechanisms  
controlling the distribution of  
infections and disease in  
populations. 1 Mathematical  
models provide an explicit  
framework within which to develop  
and communicate an understanding  
of infectious disease transmission  
dynamics. 2 Because we can  
identify the contacts necessary for

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the spread of sexually transmitted infections (STIs) they ...

An introduction to mathematical models in sexually ...

Welcome to the Imperial College London short course "Introduction to Mathematical Models of the Epidemiology and Control of Infectious Diseases"

([infectiousdiseasemodels.org](http://infectiousdiseasemodels.org)).

This course will be taught using an interface built using an R package called shiny using the R programming language .

Introduction to Mathematical Models of the Epidemiology ...

cess of mathematical modeling?

Generally speaking, the modeling process involves the following six stages: 1. Make assumptions about



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the disease transmission process based on the best available biological knowledge on the pathogenesis of the infection and epidemiology of the disease. 2. Set up mathematical models for the transmission process based on these

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