

18th April, 1955.

My dear Luca,

Thanks for your letter. In view of it I have drafted three titles with short syllabuses, each of which covers more ground than I would like to attempt in a single lecture, though this could be done if a set of three lectures suited your programme.

If you have a group who would like to follow the mathematical logic fairly closely, as it were in seminar, then the material could, I think, <sup>comfortably</sup> ~~confidently~~ be dealt with in six sessions each inside an hour. Mathematical logic, however, is not everyone's pigeon!

Sincerely yours,

Enc.

## I Some early steps

An account of English ideas on probability and inductive inference before the twentieth century.

The beginnings of quantitative science.

The problem of inference from observations to theoretical generalization.

Bayes' Theorem and its subsequent discussion 1763-1891.

Discrepant notions of "Mathematical Probability".

## II Diverse types of uncertainty and their specifications

The simple test of significance.

The fiducial form of argument.

"Confidence Limits".

Mathematical Likelihood.

The hierarchy of quantitative knowledge.

## III Examples of the mathematical operations of inductive inference

Deductive and inductive reasoning.

Verifiable inductive predictions.

Some examples of reasoning involving both probability and likelihood.