

Introduction to the Flood Estimation Handbook

Duration: 1 day

Synopsis

The Course provides an introduction to the tools available in the Flood Estimation Handbook and is intended for those with little or no practical experience of the subject. Following an introduction to the objectives of design flood analysis, users are introduced to a range of methods of flood frequency analysis. These will draw on the techniques presented in the FEH and highlight recent research that has refined the available methods.

Prerequisites

Delegates wishing to take this course need have no prior knowledge of FEH but a basic knowledge of statistics is assumed and some experience in hydrology and rainfall-runoff modelling would be an advantage.

Outcomes

After taking this course, delegates should understand the tools that are available in the FEH for design flood analysis. They should also have an appreciation of the limitations of the methods and of ways in which the methods can be enhanced.

Content

The main components of the course are as follows:

- The design flood problem
- Available data and key issues
- Catchment descriptors
- Statistical flood estimation
- The FEH statistical method
- Rainfall-runoff estimation
- The FEH rainfall-runoff method
- Recent developments

Exercises will be undertaken to demonstrate:

- WINFAP-FEH and
- the rainfall-runoff method

A set of notes will be made available to participants.