

**UNESCO GRO-FTP (formally UNU-FTP) SHORT TRAINING COURSE ON
FISHERIES ASSESSMENT AND DATA MODELLING USING THE R-SOFTWARE**

PRELIMINARY COURSE SYLLABUS

PHASE 1: ONLINE (2 hr. session x 5) (Between Jun 5-14)

- **Set-up R** – Installing R; RStudio and packages
- **Getting data into R**
- **Introducing data manipulation and visualization**
- **Introducing Biostatistics**
 - Descriptive statistics
 - Linear regression
 - Generalized linear regression

PHASE 2: PHYSICAL MEETING (Jun 21-27, 2023) (Jun 20, 28 Travel days)

Travel Day - Jun 20

DAY 1 – Wednesday Jun 21

OPENING

Data manipulation and visualization (Exercise - Working with example data sets)

DAY 2 – Thursday Jun 22

Estimating Catch and Effort (Lecture with exercise)

Generalized linear regression (GLM)

CPUE standardization (Applying GLM)

DAY 3 – Friday Jun 23

CPUE standardization (Exercise – Working with example data set)

DAY 4 – Saturday Jun 24 (Half Day)

Stock Production Models (Lecture, example exercise)

DAY 5 – Sunday Jun 25 (Off)

DAY 6 – Monday Jun 26

Stock Production Models (Cont...)

Dynamic Reporting (Generate a reporting template)

DAY 7 – Monday Jun 27

Dynamic Reporting (Cont...)

Length based approaches (Lectures and demonstration, **no exercises**)

Length based spawning potential ratio (Shiny app)

CLOSING

Travel Day - Jun 28