**Annex I: Course Outline**

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| Date | Course arrangement |
| July 30 | Research progresses and trends of water cycle modelling  Global water resources issues  Theories of water resources management  Methods on integrated water resources management |
| July 31 | Overview of water resources modelling methods  Water quality modelling  Surface water modelling based on the Hydromad model  Case studies |
| August 1 | Policies and regulations on water resources management  Socio-economic attributes of water resources management  Integrated assessment and modelling of socio-environmental Systems Integrated evaluation and management of water resources based on the Bayesian framework  Case study for the Campaspe River |
| August 2 | Python language basics  Interactive Modelling, and High-Performance Python  Software version control  Optimization methods and algorithms  Operation of water resources management models |
| August 3 | Advanced data statistical analysis  Model calibration and optimization methods  Sensitivity analysis  Case studies |