



WMO OMM

World Meteorological Organization
 Organisation météorologique mondiale
 Organización Meteorológica Mundial
 Всемирная метеорологическая организация
 المنظمة العالمية للأرصاد الجوية
 世界气象组织

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Our ref.: 31645-17/CLW/CBHWIR/DL in HYD Dr Vicente B. Malano
 Annex: 1 Permanent Representative of Philippines with
 WMO
 Philippine Atmospheric, Geophysical and
 Astronomical Services Administration (PAGASA)
 Department: Science and Technology (DOST)
 Science Garden Complex
 Agham Road, Diliman
 1101 Quezon City
 Philippines

29 August 2017

Subject: **Distance Learning Course in Hydrology I: Basic Hydrological Sciences for Asian Countries**

Dear Dr Malano,

I am pleased to inform you that, in view of the success of previous editions of the course, the World Meteorological Organization (WMO), the National Water Academy (NWA) of India and the COMET® Program are organizing the fourth Distance Learning Course in Hydrology I: Basic Hydrological Sciences for professionals working in hydrological forecasting in countries of RA II, from 16 October to 30 November 2017. The course is designed to meet the needs of environmental forecasters who do not have formal training in hydrology, but who work with hydrologic data, particularly in flood forecasting. The course (in English only) is intended to provide an understanding of ground, surface, and atmospheric forms of water, and will prepare the student for further study in hydrologic methods and forecasting.

Upon completion of this course, participants will be able to:

- Understand the elements of the hydrologic cycle
- Explain the rainfall-runoff process
- Understand the procedure of river discharge measurement by the Velocity-area method
- Describe the process of stream-flow routing
- Derive and use a unit hydrograph for forecasting flows
- Apply various hydrologic modelling methods for stream-flow routing
- Apply flash flood guidance taking into account the uncertainties in the product
- Apply various methods to assess flood risk

The course will be centered upon eight required and two optional distance learning modules developed by COMET and by NWA. The two optional modules will be chosen from among ten elective modules, based on regional interest. Students will be required to complete an online quiz at the completion of each module. While the modules can be downloaded directly from the COMET website, they will also be provided by courier on a memory stick to each accepted participant.

cc: Eng. M. F. Peralta, Hydrological Adviser to the Permanent Representative of Philippines with WMO

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