4.8.2020

AUGUST

Monday

WK 35 • 237-128

25

SEPTEMBER 2014

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CEW613 HYDROLOGICAL MODELLING
AND SOFTWARE DEVELOPMENT

TAUGHT BY

- prof. shaik rehana

COURSE TOPICS

1. introduction
   - fundamentals of fluid mechanics
   - open channel flows
   - hydrology
   - rainfall and run-off processes
   - hydro-climatology

2. water resources systems
   - river basin
   - urban hydrology
   - river water quality modelling

AUGUST

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Tuesday
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- flood and drought management

- irrigation and reservoir operation

- climate change

3. technologies and software

- open source public domain software based on microsoft windows environment.

- US environmental protection agency's EPANET

- qual 2k

- SWMM

- MATLAB tools: air 2 stream

- windows based decision support system: WEAP.

4. development and application of software

real world application at various scales for water resources management.

SEPTEMBER 2014

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Wednesday 27
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TEXT BOOKS

1. Engineering hydrology ; Subrahmanya. (2008)

2. applied hydrology ; chow.

3. statistical methods in hydrology ; haan. (1998)

4. introduction to fluid mechanics and fluid machines;
   som.