

BANGLADESH SWEDEN POLYTECHNIC INSTITUTE

SEMESTER PLAN

OF

6TH SEMESTER CONSTRUCTION TECHNOLOGY (88)

SUBJECT : ENVIRONMENTAL ENGINEERING –I (6463)

CLASS TEACHER : MD. ABDUL KADER

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T.C	T.F	P.C	P.F	Total
20	80	25	25	150

PRACTICAL

Week	Serial No.	Name of The Practical
01	1	Identification of pipes and fittings. 1.1 Identify physically different type of pipes, fittings and joints. 1.2 Draw the sketches of typical plumbing fittings.
02	2	Identification of pipes and fittings. 1.3 Cut pipes and cut a thread on the pipe. 1.4 Inspect installations to identify good and poor quality materials and workmanship
03	3	Demonstration of water purification plant and deep tube well. 2.1 Draw flow diagram of water purification processes after visiting a plant. 2.2 Draw section through a deep tube well.
04	4	Demonstration of water purification plant and deep tube well. 2.3 Identify the major precautions needed during installation and use of deep tube well.
05	5	Maintenance works. 3.1 Identify, take out and replace unserviceable fixtures/ fittings or any other component parts. 3.2 Identify the common troubles of submersible pump and their solutions. after visiting pump house.
06	6	Maintenance works. 3.3 Identify the common troubles in water supply pipe lines and their solution by visiting concern authorities (WASA, City Corporation and Pourashava).
07	7	Conduct physical and chemical tests of water. 4.1 Conduct physical tests of water (pH value & turbidity) using field pH and turbidity meter. 4.2 Conduct chemical tests of water (iron, manganese and chloride) using field kits. 4.3 Conduct the arsenic test of water using field kits.
08	8	Conduct physical and chemical tests of water. 4.4 Conduct residual chlorine test using field kits. 4.5 Conduct hardness test using field kits.
09	9	Physically identify different parts of a)No. 6 hand pump, b)deep-set (tara) hand pumps.
10	10	Physically identify different parts of c) Submersible pump
11	11	Inspect installation of a)No. 6 hand pump, b)deep-set (tara) hand pumps.
12	12	Inspect installation of c) Submersible pump

Note: Performed Experiment report must be submit next class.

REFERENCE BOOKS