

**TEACHING PLAN FOR**  
**CERTIFICATE COURSE OF COUNSELLING FOR WATER MANAGEMENT**  
**AND ISSUES**

**THEORY + PRACTICAL+ FIELD VISIT + PD- 45+22+6+2 = 75 Hrs**

Sr .No.	Topics	Hrs.
1.	Definition of water & Importance of water	1
2.	Types of water & Sources of water	2
3.	Water cycle	1
4.	Water, Nature and Human & Water Nature and Human Health	2
5.	Municipal Tap Water and Mineral Water	1
6.	Alkaline Water & Hydrogen Water	1
7.	Minerals and Heavy metals	2
8.	What are the effects of Heavy metals in the body?	2
9.	Side effects of harmful elements on human body and soil.	2
10.	What is meaning of safe water for drinking?	1
11.	Water pollution	1
12.	Which Plants help in reducing water pollution?	1
13.	Why water testing is essential?	1
14.	How to read test report and what are the useful TDS, Hardness and Minerals for drinking water?	2
15.	Permissible value for drinking water as per BIS	1.5
16.	Permissible value for drinking water as per IS standard	1.5
17.	Permissible value for drinking water as per WHO	1
18.	Rain Water Harvesting	2
19.	How to identify necessity of water purification plant?	2
20.	Reverse Osmosis Technology & Parts of RO Machine	2
21.	Assembling of RO Machine & Maintenance of RO Machine	2
22.	UV Technology & UF Technology	1
23.	Ionization & Ozonation	2
24.	Chlorination & De-chlorination	1
25.	Traditional Water Purification System	2
26.	Domestic & Commercial Water Purification System	2
27.	Industrial & Community Water Purification System	2
28.	Poultry farm & Gaushala Purification System	1
30.	Agricultural Purification System	2
<b>Practical</b>		

1.	Reading test report and water testing	2
2.	Reverse osmosis technology	3
3.	Parts of RO machine	3
4.	Assembling of RO machine	3
5.	Maintenance of RO machine	3
6.	Heavy metal absorbing technology	2
7.	Water recycling	2
8.	Usable parts in water plant (Domestic, Commercial and Industrial)	4
<b>Field visit</b>		<b>6</b>
<b>Personality development (PD)</b>		<b>2</b>

**Total Theories (in Hrs) -45 Hrs,**

**Total Practical (in Hrs) - 22 Hrs.**

**Field visit (in Hrs) - 6 Hrs.**

**Personality development - 2 Hrs.**

**Total Theory + Total Practical + Field Visit + Personality Development- 45 +22+6+2  
= 75 Hrs**