

Title of course- Laboratory water quality attendant					
Nodal Department of HEI to run course					
Broad Area/Sector-			Agriculture and Allied		
Sub Sector-			Water Quality		
Nature of course - Independent / Progressive			Independent		
Name of suggestive Sector Skill Council					
Aliened NSQF level					
Expected fees of the course –Free/Paid					
Stipend to student expected from industry					
Number of Seats-.....					
Course Code-.....			Credits- 03 (1 Theory, 2 Practical)		
Max Marks...100..... Minimum Marks.....					
Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT			Water Works		
Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.)			Pharmaceutical industries, Water Works, Institutions, Agro industry,ETP operator etc.		
Syllabus					
Unit	Topics	General/ Skill component	Theory/ Practical/ OJT/ Internship/ Training	No of theory hours (Total-15 Hours=1 credit)	No of skill Hours (Total-60 Hours=2 credits)
I	Introduction to Water Quality and the job role.	General	Theory	4	
II	Water Pollution and Management.	Skill	Theory	5	
III	Water Analysis	Skill	Theory	6	
IV	Introduction to analytical laboratory	General	Practical		5
V	Basic practical analysis	Skill	Practical		15
VI	Water composition analysis	Skill	Practical		40
Suggested Readings:					
1. Hydrology – Principles, analysis and Design – H. M Ragunath, New age International Publications.(1996)					
2. Standard Methods for the examination of water and waste water – APHA (American Public Health Association), AWWA (American Water Works Association), WEF (Water Environmental Federation)					
3. Low cost waste water treatment technologies – R. K. Trivedy and Siddharth Kaul					
4. Pollution and Bioremediation- P. C. Trivedi					
5. An Introduction to Environmental pollution- B. K. Sharma and H. Kaur					
6. Environmental Chemistry – A. K. De					
7. Microbiology – Micheal J. Pelczar, E. C. S. Chan, Noel R. Krieg.					
8. Textbook of Microbiology – R. Ananthanarayan and C. K. Jayaram Paniker					
Suggested Digital platforms/ web links for reading-					
https://www.google.com/search?q=Flowchart+of+water+treatment+plant&oq=Flowchart+of+water+treatment+plant&aqs=chrome..69i57&sourceid=chrome&ie=UTF-8					
https://www.smartdraw.com/process-flow-diagram/examples/drinking-water-treatment-process-flow-diagram/					
Suggested OJT/ Internship/ Training/ Skill partner - Water Works					
Suggested Continuous Evaluation Methods: Theory/ MCQ/ Practical/ Project/ Viva					
Course Pre-requisites:					
<ul style="list-style-type: none"> Candidates for admission to certificate course in Water Quality Assessment should possess minimum 75% in Higher Secondary level with Biology/ Physics/ Chemistry or students of B.Sc programme. 					
Suggested equivalent online courses:					
Any remarks/ suggestions:					