

Title of course- <b>Laboratory water quality attendant</b>					
Nodal Department of HEI to run course					
Broad Area/Sector-			<b>Agriculture and Allied</b>		
Sub Sector-			<b>Water Quality</b>		
Nature of course - Independent / Progressive			<b>Independent</b>		
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-.....			<b>Credits- 03 (1 Theory, 2 Practical)</b>		
Max Marks...100..... Minimum Marks.....					
Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT			<b>Water Works</b>		
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.)			<b>Pharmaceutical industries, Water Works, Institutions, Agro industry,ETP operator etc.</b>		
<b>Syllabus</b>					
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)
<b>I</b>	<b>Introduction to Water Quality and the job role.</b>	<b>General</b>	<b>Theory</b>	<b>4</b>	
<b>II</b>	<b>Water Pollution and Management.</b>	<b>Skill</b>	<b>Theory</b>	<b>5</b>	
<b>III</b>	<b>Water Analysis</b>	<b>Skill</b>	<b>Theory</b>	<b>6</b>	
<b>IV</b>	<b>Introduction to analytical laboratory</b>	<b>General</b>	<b>Practical</b>		<b>5</b>
<b>V</b>	<b>Basic practical analysis</b>	<b>Skill</b>	<b>Practical</b>		<b>15</b>
<b>VI</b>	<b>Water composition analysis</b>	<b>Skill</b>	<b>Practical</b>		<b>40</b>
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-					
<a href="https://www.google.com/search?q=Flowchart+of+water+treatment+plant&amp;oq=Flowchart+of+water+treatment+plant&amp;aqs=chrome..69i57&amp;sourceid=chrome&amp;ie=UTF-8">https://www.google.com/search?q=Flowchart+of+water+treatment+plant&amp;oq=Flowchart+of+water+treatment+plant&amp;aqs=chrome..69i57&amp;sourceid=chrome&amp;ie=UTF-8</a>					
<a href="https://www.smartdraw.com/process-flow-diagram/examples/drinking-water-treatment-process-flow-diagram/">https://www.smartdraw.com/process-flow-diagram/examples/drinking-water-treatment-process-flow-diagram/</a>					
Suggested OJT/ Internship/ Training/ Skill partner - <b>Water Works</b>					
Suggested Continuous Evaluation Methods: <b>Theory/ MCQ/ Practical/ Project/ Viva</b>					
Course Pre-requisites:					
<ul style="list-style-type: none"> <li>• 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.</li> </ul>					
Suggested equivalent online courses:					
Any remarks/ suggestions:					