

<b>Title of course:</b>			<b>Public Health Engineering</b>		
<b>Nodal Department of HEI to run course</b>					
<b>Board Area/Sector-</b>			<b>Health Care</b>		
<b>Sub Sector-</b>					
<b>Nature of Course-Independent and Progressive</b>			<b>Independent and Progressive</b>		
<b>Name of Suggestive Sector Skill Council</b>			Health Care sector Skill Council		
<b>Aliened NSQF Level</b>			<b>4</b>		
<b>Expected fee of the Course- Paid</b>					
<b>Stipend to Student expected from industry</b>					
<b>Number of Seats.....</b>					
<b>Course Code- VOPHE (VOPHE101, VOPHE102, VOPHE201, VOPHE202)</b>			<b>Credits-03(1 Theory,2 Practical)</b>		
<b>Max Mark 25+75</b>			<b>Minimum Marks.</b>		
<b>Name of proposed skill Partner (Please Specify, Name of industry, company etc for practical/training/internship/OJT.</b>					
<b>Job prospects- Expected field of Occupation where student will be able to Get job after the completing this course in (Please Specify, Name of industry, company etc).</b>			NGOs, Multinational Companies, Sanitation staff, Office management, Can open their own		
<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>Semester-1 VOPHE101</b>			<b>Credit-3</b>		
I.	Introduction of PUBLIC HEALTH ENGINEERING	General	<b>Theory</b>	15 Hours	
II.	Basic tool and Techniques	Skill	<b>Theory/Practical</b>		30 Hours
III.	Sources, Quantity and Quality of water	Skill	<b>Practical/Internship /Training</b>		30 Hours
<b>Semester-2 VOPHE102</b>			<b>Credit-3</b>		
I.	Building Water supply	General	<b>Theory/ Practical</b>	15 Hours	
II.	Purification of Water	Skill	<b>Theory/Practical</b>		30 Hours
III.	Conveyance and distribution of water	Skill	<b>Practical/Internship /Training</b>		30 Hours
<b>Semester-3 VOPHE201</b>			<b>Credit-3</b>		
I.	Domestic sewage and system of sewerages	General	<b>Theory/ Practical</b>	15 Hours	
II.	Characteristics and treatment of sewage	Skill	<b>Theory/Practical</b>		30 Hours
III.	Maintenance	Skill	<b>Practical/Internship</b>		30 Hours

			/Training		
<b>Semester-4 VOPHE202</b>			<b>Credit-3</b>		
I.	Sanitary Engineering	General	<b>Theory/ Practical</b>	15 Hours	
II.	Health Education	Skill	<b>Theory/Practical</b>		30 Hours
III.	Industrial Training	Skill	<b>Practical/Internship /Training</b>		30 Hours
Suggested Readings: Public health engineering : a lecture note-book Practical Handbook on Public Health Engineering, 3rd Edition, MSBTE – Public Health Engineering – Nirali Environmental Engineering Vol. I And Vol. II Environmental Pollution Control Engineering Water supply and Sanitary Engineering					
Suggested Digital platforms/web link for reading- <a href="http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=21">http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=21</a> <a href="http://www.cbseacademic.nic.in/web_material/doc/2014/16_Library%20&amp;%20Information%20Science%20Class%20XI.pdf">http://www.cbseacademic.nic.in/web_material/doc/2014/16_Library%20&amp;%20Information%20Science%20Class%20XI.pdf</a> <a href="http://www.mpcb.gov.in">www.mpcb.gov.in</a> <a href="http://www.cpcb.nic.in">www.cpcb.nic.in</a> <a href="http://nptel.ac.in/courses/105104102/">http://nptel.ac.in/courses/105104102/</a> <a href="http://nptel.ac.in/courses/105106119/33">http://nptel.ac.in/courses/105106119/33</a>					
Suggested OJT/internship/Training/Skill partner :					
<b>Suggested Continuous Evaluation Methods:</b> Internal Assessment: Every month will have one or two Grade test/Quiz/Practical test/ Seminar on the bases of theory and practical syllabus. Best 3 test/Quiz/Practical test/ Seminar marks will be considered for internal marks and carry 30 % of overall result. End term Exam will have 40 theory (Objective type) + 60 skill test plus report assessment marks based on visit and will carry 70 % of overall result. All students, who obtain 40% marks in internal assessment and 40% marks in end term, will be eligible for certificate and credit transfer. Course learners who qualify the end course examination can get a passing certificate and a marksheet for credit transfer. Course learners can get participation certificate and completion of the course for the participation in the course					
Course Pre-requisites: <ul style="list-style-type: none"> <li>• No pre-requisite required, open to all</li> <li>• To study this Course, a student must have the Subject subject or any other in class/12<sup>th</sup>/certificate/diploma.</li> <li>• If progressive to study this course a student must have passed previous courses of this series.</li> </ul>					
Suggested Equivalent online courses:					
Any remarks/suggestions:					
Notes: <ul style="list-style-type: none"> <li>• Number of units in theory/practical may vary as per need.</li> <li>• Total credit Semester-3(it can be more credits, but student will get only3 credits/semester or 5 credits/year).</li> <li>• Credit for theory=01(Teaching hours=15)</li> <li>• Credit for internship/OJT/Training/Practical=02(Training hours =60)</li> </ul>					