

**DEPARTMENT OF CHEMISTRY****2018 Scheme**

<b>Course Code</b>	<b>18CHE12/22 – ENGINEERING CHEMISTRY</b>
<b>CO1</b>	Use of free energy in equilibria, rationalize bulk properties and processes using thermodynamic considerations, electrochemical energy systems
<b>CO2</b>	Causes & effects of corrosion of metals and control of corrosion. Modification of surface properties of metals to develop resistance to corrosion, wear, tear, impact etc. by electroplating and electroless plating
<b>CO3</b>	Production & consumption of energy for industrialization of country and living standards of people. Electrochemical and concentration cells. Classical, modern batteries and fuel cells. Utilization of solar energy for different useful forms of energy
<b>CO4</b>	Environmental pollution, waste management and water chemistry
<b>CO5</b>	Different techniques of instrumental methods of analysis. Fundamental principles of nano materials.
<b>Course Code</b>	<b>18CHEL16/26 – ENGINEERING CHEMISTRY LABORATORY</b>
<b>CO1</b>	Handling different Types of instruments for analysis of materials using small quantities of materials involved for quick and accurate results
<b>CO2</b>	Carrying out different types of titrations for estimation of concerned in materials using comparatively more quantities of materials involved for good results