

**Dr. Ramesh Kumar**

**Schedule of topics to be taught in M.Sc. Chemistry (2<sup>nd</sup> and 4<sup>th</sup> Semester) from 13.04.2015 to 18.04.2015**

<b>Date</b>	<b>Semester</b>	<b>Paper No.</b>	<b>Topics</b>
<b>15.04.2015</b>	<b>II</b>	<b>VII</b>	<b>Ammonolysis of ester</b>
<b>17.04.2015</b>	<b>IV</b>	<b>XIX</b>	<b>Conversion of cholesterol to Cholanic acids, Progesterone and testosterone</b>
<b>18.04.2015</b>	<b>IV</b>	<b>XIX</b>	<b>Stereochemistry of Cholesterol and Johnson's hydrochrysene approach towards the synthesis of, Androsterone.</b>

**Ravinder Kaur**

**Lesson Plan (13.04.2015-18.04.2015)**

**Paper XVIII**

**Co-Enzyme chemistry**

Cofactors as derived from vitamins, coenzymes, prosthetic groups, apoenzymes. Structure and biological functions of coenzyme A, thiamine pyrophosphate, pyridoxal phosphate, NAD<sup>+</sup>, NADP<sup>+</sup>, FMN, FAD, Mechanisms of reactions catalyzed by the above cofactors.