



DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,  
NAGPUR

## B.Sc. (CHEMISTRY) Semester I

### Paper II Physical Chemistry

(Hess's Law of constant heat summation, Liquification of gases and critical phenomenon-Andrew's experiment for CO<sub>2</sub>, Liquid crystals-Definition, properties, discovery and uses, Adsorption and catalysis)

#### Unit I

Hess's Law of constant heat summation

<https://youtu.be/BvRH-9gFKks?si=NjPzFdhml8CSbWLU>

#### Unit II

Liquification of gases and critical phenomenon-Andrew's experiment for CO<sub>2</sub>

<https://youtu.be/dNjJEeflvHI?si=U5HZScXEzypq4vgT>

#### Unit III

Liquid crystals-Definition, properties, discovery and uses.

<https://youtu.be/qIZUAe7ntjI?si=3cA1I2rYzkCFT5oC>

#### Unit IV

Adsorption and catalysis

<https://youtu.be/ahmTDioeBoE?si=C F p4Zo0tvw5BJw>

<https://youtu.be/WZvwBP9neWw?si=7OJUil2lznpe9LMA>