

BAHAUDDIN SCIENCE COLLEGE - JUNAGADH

Department of Chemistry

Gladly announce

TWO WEEKS ONLINE COURSE

On

MOLECULAR SYMMETRY

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY

CRYSTAL FIELD THEORY

FOR UNDERGRADUATE CHEMISTRY STUDENTS

8TH To 21ST NOV, 2021

Link for Registration: <https://forms.gle/3qFsyiH4PLHQByJA9>

Last Date for Registration: 6th NOV, 2021

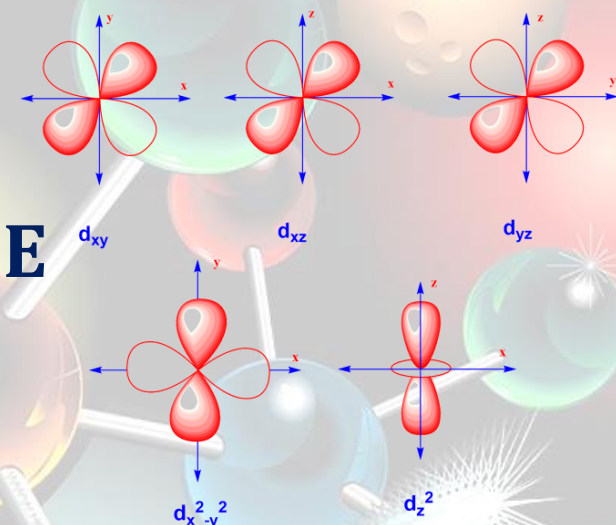
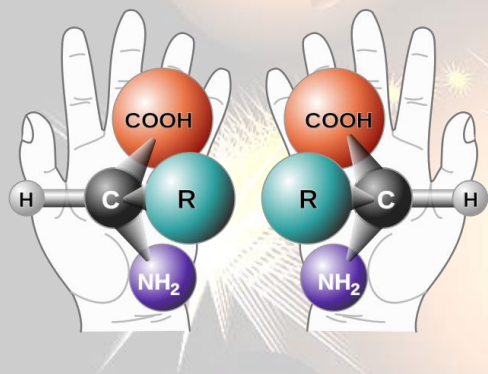
NO REGISTRATION FEE

Organized By

BAHAUDDIN SCIENCE COLLEGE - JUNAGADH

Website: bahauddinscience.edu.in

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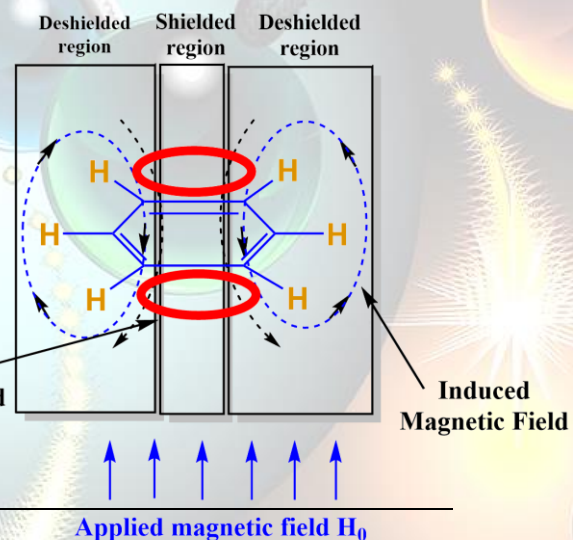
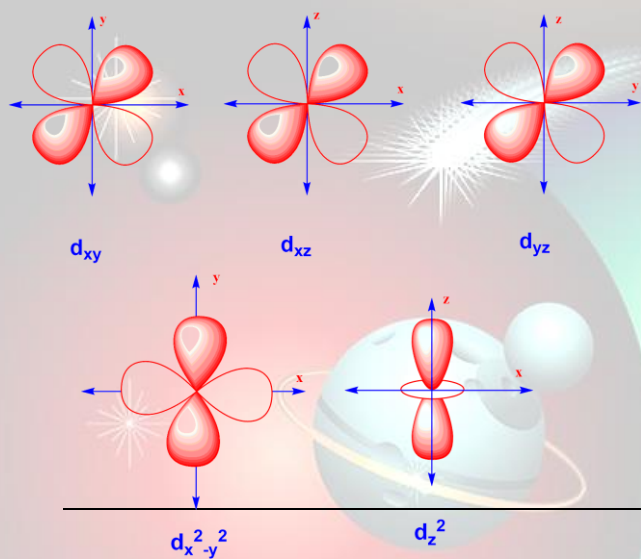
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Deshielding effect on benzene protons

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Theme of Online Course

1st Day: Introduction of Proper Rotational Axis

Submission of Assignment-1

2nd Day: Introduction of Plane of Symmetry, Centre of Symmetry and Point Groups: C_1 , C_s , C_i & C_{nv}

Submission of Assignment-2

3rd Day: Point Groups: C_{nh} , D_{nh} , D_{nd} & Dihedral Plane

Submission of Assignment-3

4th Day: Examples of Point Group & Improper Rotational Axis.

Submission of Assignment-4

5th Day: Law of Symmetry & Group Multiplication Table of C_{2v} Point Group

Submission of Assignment-5

6th Day: Group Multiplication Table of C_{3v} & C_{2h} Point Group and Order of Point Group

Submission of Assignment-6

7th Day: Final Exam of Molecular Symmetry

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Theme of Online Course

8th Day: Principle of NMR, Calculations of No. of Signals

Submission of Assignment-7

9th Day: Position of Signals, Magnetic anisotropic effect, Reference Used in NMR, Factors affecting on chemical shift.

Submission of Assignment-8

10th Day: Intensity of Signals, Splitting of Signals, Coupling Constant, Applications of NMR.

Submission of Assignment-9

11th Day: Problems in ^1H -NMR Spectroscopy.

Submission of Assignment-10

12th Day: d-orbital splitting in octahedral complexes, High Spin & Low Spin Complexes, d-orbital splitting in Tetrahedral complexes

Submission of Assignment-11

13th Day: Calculations of CFSE, Examples of CFSE, Factor affecting on Splitting energy

Submission of Assignment-12

14th Day: Final Exam of NMR & CFT

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