

## Quadrant II – Transcript and Related Materials

Programme: Bachelor of Science

Subject: Chemistry

Paper Code: CHC101

Paper Title: Inorganic & Organic Chemistry

Unit: 1

Module Name: Resonance

Module No: 04

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### Glossary of terms/words:

1. **Resonance:** *Movement of electrons between atoms of the same molecule.*
2. **Resonating structures:** Resonance gives rise to structures that differ in the electronic arrangement, these are Resonating structures
3. **Resonance Hybrid:** The actual structure is a combination of all resonating structures giving rise to Resonance hybrid
4. **Conjugated System:** a conjugated system is a system of connected p orbitals with delocalized electrons in a molecule, which in general lowers the overall energy of the molecule and increases stability. It is conventionally represented as having alternating single and multiple bonds
5. **Electron donating groups:** Electron donating group (EDG; electron releasing group; ERG): An atom or group that release electron density to neighboring atoms from itself, usually by resonance or inductive effects.
6. **Electron withdrawing groups:** Electron withdrawing group (EWG): An atom or group that draws electron density from neighboring atoms towards itself, usually by resonance or inductive effects.