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| Month | No.of periods | Topic to be covered | No.of periods taken | remarks |
| Nov-2016  21-30 | 08 | Rearrangements: Classfication and general mechanistic treatment of nucleophilic, free radical and electrophilic rearrangements,. |  |  |
| Dec-2016  1-31 | 25 | Wagner - Meerwein and related reactions Tiffeman Demzanox rearrangement, a- ketone arrangement, Neber, Hofmann, Bayer- villiger, stevens wittig rearrangements Addition Elimination Mechanisms: (a) Addition to carbon multiple bonds- Addition reactions involving electrophiles, necleophiles and free radicals, cyclic mechanisms, orientation and stereochemistry, hydrogenation of double and triple bonds, hydroboration, birch reduction. Michael reaction, |  |  |
| Jan-2016  2-31 | 14 | addition of oxygen and N,.04; (b) Addition to carbon-hetero atom multiple bonds: Mannich reaction AH reductions of Carbonyl compounds acids, esters, nitrites, addtion of Grignard reagents, Reformatsky reaction, Tollen's reaction, witting reaction, Prins reaction: (c) Elimination reactions: Stereochemistry of eliminations in acyclic and cyclic systems, orientation in eliminations - Saytzeff and Hoffman elimination propolitic elimination. |  |  |
| Feb-2016  01-28 | 23 | Photoehemical energy plank Condon Principle, Jabionski diagram singlet and triplet states, dissipation of photochemical energy, photosensitization, quenching, quantum efficiency and quantum yield, experimental methods of photochemistry Photochemistry of carbonyl compoundsn- n transitions Norrish type I and Norrish type II cleavages, patterno-Buchi reaction. |  |  |
| Mar2016  01-31 | 26 | Photoreduction photochemistry of enone - Hydrogen abstraction, rearrangement of  ; ß -unsaturated ketones and cyclohexadienes, Photochemistry of p- Benzoquinones, photochemistry of unsaturated systems - Olefins, cis trans Isomerisation and dimerization hydrogen abstractions and, addition acetylenes dimerisation, dienes - Photochemistry of 1,3 butadienes (2+2) additions leading to cage structures photochemistry .of cyclohexadienes.  Photochemistry of aromatic compounds - Excited state of benzene its 1,2-1,3 1-4 additions, photo Fries rearrangements, photofries reactions of anilides, photosubstitution reactions of bermene derivatives.  Photochemistry of pyridinium yields, pyrolysis of nitrites esters and barton reaction |  |  |

**Signature of the faculty Head chemistry**