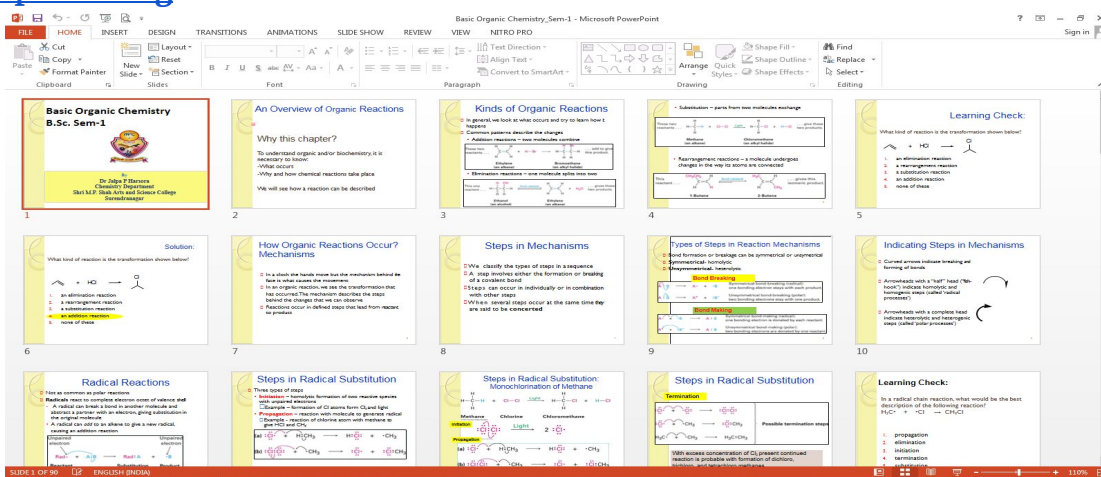


Report on Work from Home

આપણી કોલેજ ખાતે ચાલુ શૈક્ષણિક સત્રમાં Smart Class install થયેલ છે. આ Smart Class નો ઉપયોગ અસરકારક Teaching Learning માટે કરી શકાય છે. આથી આવનાર સત્ર દરમ્યાન લેક્ચર લેવા માટે Google Slides ના માધ્યમથી Semester-1 ના વિદ્યાર્થીઓના માટે **Basic Organic Chemistry** અને Semester-5 ના વિદ્યાર્થીઓના માટે **Arndt Eistert Reaction** તા.૨૬/૦૩/૨૦૨૦ થી તા. ૦૫/૦૪/૨૦૨૦ દરમ્યાન (PowerPoint) presentation બનાવેલ. આ presentation ના screenshot અને link નીચે આપેલ છે.

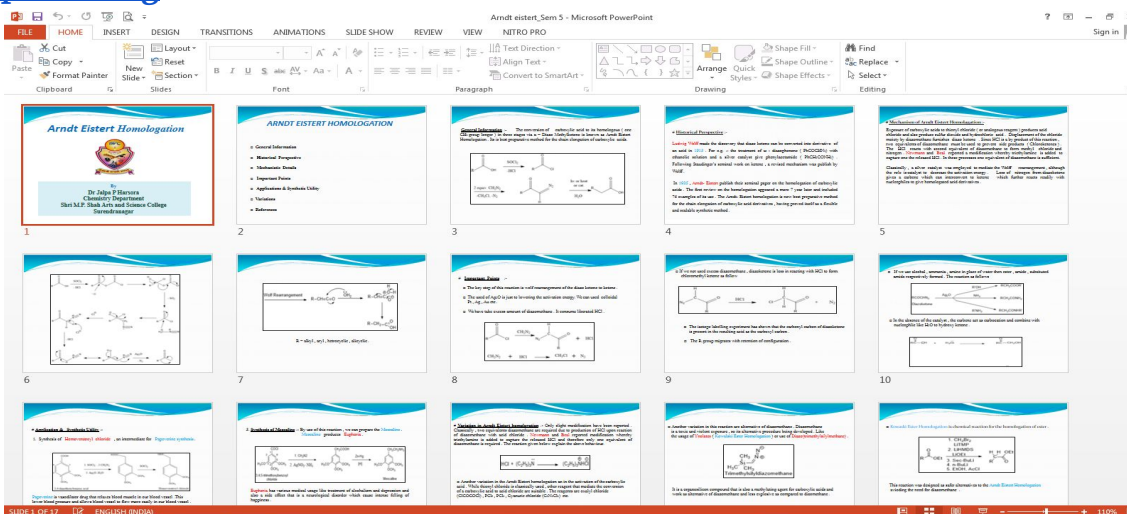
Basic Organic Chemistry:

<https://drive.google.com/file/d/1emU4v9aztDPWCCaZArD2sEtSsYFfA5Mg/view?usp=sharing>



Arndt Eistert Reaction:

<https://drive.google.com/file/d/1oS6HAcS0hVz2Dq-poTFcENXJ7j3yQmUh/view?usp=sharing>



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તા. ૦૬/૦૪/૨૦૨૦ થી તા. ૧૦/૦૪/૨૦૨૦ સુધી Zoom Software દ્વારા વિદ્યાર્થીઓના Online લેક્ચર લેવાની તૈયારી કરેલ જેમાં આ સોફ્ટવેર નુ સંચાલન, વિદ્યાર્થીઓ સુધી આ સોફ્ટવેર ની માહિતી પહોચાડવી, આ સોફ્ટવેર નુ DEMONSTRATION તેમજ આ સમય દરમ્યાન ONLINE LECTURE SERIES હેઠળ નામે Name Reaction & Rearrangement નુ PowerPoint ના માધ્યમથી presentation તૈયાર કરેલ. આ presentation ના screenshot અને LINK નીચે આપેલ છે.

Aldol Condensation: (pdf material)

https://drive.google.com/file/d/10FX7CRG4_OHYW72xhxemi2o05MEKcsUg/viiew?usp=sharing

Perkin Condensation: (pdf material)

https://drive.google.com/file/d/1xg_4gtypa4tayFmeIrME4uuLovvxCzr7/view?usp=sharing

Name Reaction & Rearrangement: (Presentation)

https://drive.google.com/file/d/1qV9hY6FO3wgRFcFtt1sr-TeiwNzjpSd_/view?usp=sharing

The screenshot shows a PowerPoint presentation with the following content:

- Slide 1:** Title slide: "Online Lecture Series Name Reactions and Rearrangement For B.Sc. Semester-4 students. Dr. Jalpa P. Harsora, Chemistry Department, Shri M. P. Shah Arts & Science College, Surendranagar."
- Slide 2:** "Name reactions" (1. Aldol condensation, 2. Perkin Reaction, 3. Wittig reaction) and "Name rearrangement" (1. Beckmann Rearrangement, 2. Benzil-Benzilic acid Rearrangement, 3. Hofmann bromamide degradation).
- Slide 3:** "Aldol condensation" history, featuring portraits of Alexander Borodin (1869, Russian) and Charles-Adolphe Wurtz (1872, French).
- Slide 4:** "Definition: α -Hydrogen containing carbonyl compound forms β -Hydroxy carbonyl compound in presence of dilute strong alkaline media. Starting Material: α -Hydrogen containing carbonyl compound. Catalyst: Dilute Strong Base. Product: β -Hydroxy carbonyl compound."
- Slide 5:** "Reaction:" showing the reaction of Acetaldehyde (IUPAC Name: 2-Ethanal) with OH^- to form 3-Hydroxybutanal (IUPAC Name: 3-Hydroxybutanal). A question asks: "How many α -Hydrogens are present in Acetaldehyde? 3 OR 4? Ans: 3".
- Slide 6:** "Mechanism:" showing Step-1 (Ionization of Base: $\text{NaOH} \rightarrow \text{Na}^+ + \text{OH}^-$), Step-2 (Deprotonation of α -hydrogen by Base), and Step-3 (Nucleophilic addition of Carbanion on carbonyl compound).

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