

**Bhairavnath Shikshan Mandal's**  
**Bhairavnath Vidynan Mahavidyalaya, Khutbav**  
**Tal.Daund Dist.Pune**

**Weekly Academic Planner 2020-21**

**Class: T.Y.B.Sc. CH-507: Organic Chemistry - I [Credit -2, 36 L]**

**Name of Teacher- Asst.Prof. Sutar Arti Dattatray**

Month	Week 1	Week 2	Week 3	Week 4
Sept			<ul style="list-style-type: none"> <li>1. Polynuclear and Heteronuclear Aromatic Compounds [08 L]</li> <li>Introduction, Classification of aromatic compounds,</li> <li>Properties of the following compounds with reference to electrophilic and nucleophilic</li> <li>substitution: Naphthalene, Anthracene, Furan, Pyrrole, Thiophene, and Pyridine</li> </ul>	<ul style="list-style-type: none"> <li>Active Methylene Compounds [05 L]</li> <li>Definition, Preparation Ethylacetate and Sy uses of ethylacetate Preparation Diethyl malonate Synthetic of diethyl malonate</li> <li>(preparation of non-heterocyclic molecules having upto 6 carbons)</li> </ul>
Oct	3. Rearrangement Reactions [12 L]	<ul style="list-style-type: none"> <li>Rearrangement – Beckmann,</li> <li>Baeyer-Villiger, Favorskii,</li> </ul>	<ul style="list-style-type: none"> <li>Assignment On Second Chapter.</li> <li>Test On Second Chapter.</li> </ul>	Assignment On Second Chapter. Test On Third Chapter.

	<ul style="list-style-type: none"> <li>• Introduction, Types of rearrangement,</li> <li>• Types of reactive intermediate involved in different rearrangements</li> </ul>	<ul style="list-style-type: none"> <li>• Curtius, Lossen, Schmidt and Pinacol-Pinacolon e with mechanism.</li> <li>• Electrocyclic Rearrangements- Claisen,</li> <li>• Cope and Mc-Lafferty rearrangements with mechanism.</li> </ul>	<p><b>4. Elimination reactions [11 L]</b></p> <p>Introduction; Types of eliminations-1,1; 1,2 elimination, Mechanism with evidences of E1 and E2, E1cB reactions.</p>	
<b>Nov</b>	stereochemistry of E1 and E2 elimination, Orientations and reactivity in E1 and E2 elimination.	Hoffmann and Saytzeff's orientation, Factors affecting the reactivity- effect of structure, attacking base and leaving groups.	Test and assignment.	Seminars.

<b>Dec</b>	<ul style="list-style-type: none"><li>• Assignment On Fourth Chapter.</li><li>• Test On Fourth Chapter.</li></ul>		<b>INTERNAL EXAMINATION</b>	
<b>Jan</b>				

**Faculty Name:**

**Asst. Prof. Sutar Arti Dattatray**

**Principal**