



ADD ON COURSE
Overview on Important Name Reactions in Organic Chemistry
(From the Academic Year 2018-19)

Sr. No.	Contents
1.	General Objectives of the Course
2.	Duration of the course
3.	Eligibility for admission
4.	Course fee
5.	Medium of instruction and examination
6.	Structure of assessment
7.	Eligibility for appearing final examination
8.	Final examination
9.	Standard of passing:
10.	Award of class
11.	Commencement of the course
12.	Syllabus
13.	Course Outcomes

1. General Objectives of the Course:

Named reactions are an important element of organic chemistry, and a thorough knowledge of such reactions is essential for the students preparing for the competitive examination in the chemistry. The scientific content behind the name is of great importance, and the names themselves are used as short expressions in order to ease spoken as well as written communication in organic chemistry. Furthermore, named reactions are a perfect aid for learning the principles of organic chemistry. This course is not meant to completely cover all reactions in organic chemistry. It is rather a reference work on named reactions, which will also be suitable for easy reading and learning, as well as for revision for examinations in organic chemistry. This course deals with about 25 of the most important reactions in organic chemistry; the selection is based on their importance for modern preparative organic chemistry, as well as a modern organic chemistry course.

2. Duration of the course

1. The duration of the course shall be of **50** contact hours

3. Eligibility for admission

1. **Minimum qualification: S.Y.B.Sc. Passed**
2. **Age Limit: - 18 Years onwards**
3. **Intake Capacity: 60**

4. Course fee:

Free for all

5. Medium of instruction and examination

Course will be taught Marathi/English and question papers shall be set in English.

6. Structure of assessment

Assessment includes total 100 marks as follows:

Assessment Method	Total No.	Marks	Total Marks
Assignment	2	25	50
Final examination	1	50	50
		Total Marks	100

7. Eligibility for appearing final examination

Student should keep the terms with at least 75% attendance. He/she should complete all the assignment that are expected in all parts of the syllabus. Final examination is mandatory for all the students

8. Final examination

A Final examination will be held at the end of the course which shall be called “Final Examination”. This examination will be of **50** marks.

9. Standard of passing

A student must obtain 40% aggregate marks together in quiz, assignment and final examination.

10. Award of class

Class will be awarded to the students at the end of the course based on aggregate marks

Sr. No	Passing criteria
First Class with Distinction	70% or greater than above
First Class	60% & above but less than 70%
Higher Second Class	55% & above but less than 60%
Second Class	50% & above but less than 55%
Pass Class	40% & above but less than 50%

11. Commencement of the course

The dates for commencement and conclusion of the course shall be fixed by the college.

12. Syllabus

Overview on Important Name Reactions in Organic Chemistry

- Acyloin Ester Condensation
- Arndt–Eistert Synthesis
- Baeyer–Villiger Oxidation
- Bamford–Stevens Reaction
- Barton Reaction
- Benzoin Condensation
- Bergman Cyclization
- Chugaev Reaction
- Curtius Reaction
- Diels–Alder Reaction
- Gattermann Reaction
- Gomberg–Bachmann Reaction
- Heck Reaction

- Hell–Volhard–Zelinskii Reaction
- Hunsdiecker Reaction
- Knoevenagel Reaction
- Kolbe–Schmitt Reaction
- Mannich Reaction
- McMurry Reaction
- Meerwein–Ponndorf–Verley Reduction
- Mitsunobu Reaction
- Nef Reaction
- Pauson–Khand Reaction
- Ramberg–Backlund Reaction
- Reformatsky Reaction
- Sandmeyer Reaction
- Simmons–Smith Reaction
- Swern Oxidation
- Vilsmeier Reaction
- Wagner–Meerwein Rearrangement

(We have to delete 5 reactions selectively from the above list)

13. Course Outcomes:

At the end of the course students will be able to...

1. Understand the important selected named reactions.
2. Understand the methods of preparation and properties of organic compounds.
3. Understand the reactivity of organic compounds.
4. Understand the mechanism and synthetic applications of selected named reactions.
5. Applications of reagents in synthetic organic chemistry.

