

Secondary Education Society's  
**Arts and Science College, Bhalod**  
**Taluka-Yawal, Dist- Jalgaon 425304**

NAAC Reaccredited "B" Grade

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*Document Proofs related to 1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year AND 1.3.3 Number of students undertaking project work/field work/ internships*

# **North Maharashtra University**

'A' Grade NAAC Re-Accredited (3<sup>rd</sup> Cycle)

Jalgaon-425001, Maharashtra, (India)



**B.O.S. in Chemistry**

**M.Sc. Second Year (Organic Chemistry)**

**Semester III & IV**

With effect from **June-2018**

# NORTH MAHARASHTRA UNIVERSITY, JALGAON

## Syllabus for M.Sc. Part-II Organic Chemistry

(Semester - III & IV)

(With Effect from June 2018)

### Aims:

Chemistry is a central subject of science. It is also closely related to daily life. The broad aims are to help students to

1. Acquire some knowledge of the empirical world.
2. Acquire an ability to solve problem.
3. Acquire an ability to think scientifically, independently and to make rational discussion.
4. Acquire an ability to communicate, using the language of chemistry.
5. Develop an appreciation of chemistry and its application in daily life.

### Objectives:

1. To encourage students to take an active part in class.
2. To teach good laboratory practice and skills.
3. To teach students to analyze data from experiments or from other sources.
4. To acquire students a readiness in becoming responsible citizens in a changing world.
5. To provide students with some insight into future career prospect in the fields related to Chemistry.

### Course Structure for Second Year

The following will be the structure for revised syllabus from June 2018 for Semester III and Semester IV

#### SEMESTER - III

Sub. Code: Title

CH-350: Organic Reaction Mechanism

CH-351: Spectroscopic Methods in Structure Determination

CH-352: Organic Stereochemistry

CH-353: Free radical, photochemistry, Pericyclic reaction and their applications

#### SEMESTER - IV

Sub. Code: Title

CH-450: Chemistry of Natural Products

CH-451: Synthetic Methods in Organic Chemistry

CH-452: Heterocyclic chemistry, Chiron approach and medicinal chemistry

#### Practical courses:

Sub. Code: Title

CH -O-2: Ternary mixture separation (Annual)

CH -O-3: Three stage preparations (Annual)

CH -O-4: Short Research Project (Annual)

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**Department of Chemistry**

**List of students who completed research project in the academic year 2021-22**

Programme Name: M.Sc. II (Organic Chemistry)      Programme Code: 132062021

Course Name: Short Research Project      Course Code: CH -O-4

Name of research Project	Name of students who completed project work
Synthesis of Bis(indolyl) methanes using Tarataric Acid and 1-(2-hydroxyethyl) Pyridinium-Bromide	1) Parag D Bhole
	2) Durgeh V Bonde
	3) Mayur R Atawal
	4) Nikita Chaudhari
	5) Shirish Kumbhar
	6) Tejas V Warke
	7) Monika Chaudhari
	8) Hemali Patil
Synthesis of Dihydropyrimidone Catalyzed by Tartaric Acid and 1-(2-hydroxyethyl) Pyridinium-Bromide	9) Dimpal Y. Dhande
	10) Namrata J. Patil
	11) Dimpal K. Sarode
	12) Chaitali S. Chaudhari
	13) Vandana B. Bhil
	14) Sweta G. Badgajar
	15) Vijay D. Bhoi
	16) Kiran R. Masule
Synthesis of Bis(indolyl) methanes using Tarataric Acid and 3-(2-hydroxyethyl)-1-Methyl-Imidazolium-Bromide	17) Suvarna A. Patil
	18) Dhanashri I. Koli
	19) Chetan A. Rajput
	20) Sagar A. Patil
	21) Savita B. Koli
	22) Vikas N. More
	23) Lalit J. Patil
Synthesis of Bis(indolyl) methanes using Tarataric Acid and 3-(2-hydroxyethyl)-1-Methyl-Imidazolium-Bromide	24) Kailas B. Jawale
	25) Yogesh S. Sananse
	26) Vinayak P. Kinge
	27) Gaurav K. Tayade
	28) Punam V. Deshmukh
	29) Pragati P. Bhangale
	30) Vinita P. Patil
	31) Yogita D. Koli

*R. A. Phule*

**Head**  
 Department of Chemistry  
 Head, Department of chemistry  
 Arts and Science College, Bhalod



*J. K. Jute*  
**Acting Principal**  
 S.E. Society's  
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 Bhalod, Dist. Jalgaon