Date:-10/01/2020

To,

The Principal,

NutanMahavidyalaya, Selu

Dist. Parbhani.

Subject : Organization of Certificate Course on Basics in Organic Chemistry.

Respected Sir,

As per the subject highlighted above I, on behalf of Department of Chemistry, hereby, feels glad to convey you that we are planning to organize 2 weekscertificate course on basics in organic chemistry for all the interested students of our institution. The course will run from 20/01/2020 to 06/02/2020.

I request you to permit us for the successful organization of this course.

Yours Faithfully

Dr. K.S. Niralwad

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DEPARTMENT OF CHEMISTRY

2019-2020

CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

Introduction

A certificate course in basics of organic chemistry is typically designed to provide foundational knowledge and understanding of key concepts in organic chemistry. These courses are often suitable for beginners or those with limited background in chemistry who want to learn about the fundamental principles that govern organic molecules and reactions.

This course focuses on organic chemistry, the chemistry of carbon. Carbon based compounds; the organic compounds are the building blocks of life on earth. From biological molecules such as nucleic acids to polymers in plastic, they are omnipresent. Synthetically made compounds such as pharmaceutical drugs, paints and oils find wide use in our day-to-day life. This course highlights the fundamentals of organic chemistry. Topics such as structure, physical properties, and chemical reactivity of various organic compounds will be discussed in detail. This course also builds fundamentals of organic chemistry such as resonance, conformational analysis and stereochemistry. Study of various functional groups such as alkanes, alkenes, alkyl halides, alcohols etc. will be conducted in detail. In short, welcome to a course explaining the molecular basis of chemistry around you.

Course Objectives:

Introduction to Organic Chemistry: Understanding what organic chemistry is and its importance in various fields like medicine, biology, agriculture, and industry.

Structure and Bonding: Learning about the structure of organic molecules, including carbon-carbon bonds, functional groups, and isomerism.

Chemical Reactions: Exploring the basic types of organic reactions, such as substitution, addition, elimination, and oxidation-reduction.

Nomenclature: Understanding how organic molecules are named according to IUPAC rules.

Properties and Behavior: Studying the physical and chemical properties of organic compounds, including solubility, acidity, and basicity.

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Key Organic Functional Groups: Introduction to important functional groups such as alkanes, alkenes, alkynes, alcohols, ethers, aldehydes, ketones, carboxylic acids, and their derivatives.

Reaction Mechanisms: Basic understanding of reaction mechanisms, including nucleophilic substitution, electrophilic addition, and more.

Applications: Exploring real-world applications of organic chemistry in pharmaceuticals, polymers, biochemistry, and materials science.

Learning out come

Learning outcomes of a course in organic chemistry typically include a range of knowledge, skills, and competencies that students are expected to achieve by the end of the course. These outcomes are designed to reflect the fundamental principles and applications of organic chemistry. Here are common learning outcomes for such a course:

Knowledge-Based Outcomes:

Understanding Organic Molecules: Describe the structural features of organic molecules, including the arrangement of atoms, functional groups, and bonding patterns.

Nomenclature: Apply IUPAC rules to systematically name organic compounds based on their structure and functional groups.

Reactivity and Mechanisms: Explain the mechanisms of common organic reactions, such as nucleophilic substitution, addition, elimination, oxidation, and reduction.

Functional Groups: Identify and classify major functional groups (e.g., alcohols, ethers, aldehydes, ketones, carboxylic acids, amines, etc.) and understand their properties and reactivity.

Isomerism: Differentiate between structural, geometric (cis-trans), and optical isomers, and explain their significance in organic chemistry.

Aromaticity: Define aromatic compounds and their unique stability, reactivity, and resonance structures.

Stereochemistry: Understand stereochemical concepts, such as chirality, enantiomers, diastereomers, and their importance in biological and synthetic processes.

Conformational Analysis: Analyze the conformational flexibility of organic molecules, including chair conformations of cyclohexane and Newman projections.

Organic Synthesis: Describe basic strategies and methods used in organic synthesis to construct complex molecules from simpler starting materials.

Skills-Based Outcomes:

Problem Solving: Apply knowledge of organic chemistry principles to solve problems related to reaction mechanisms, synthesis pathways, and spectroscopic analysis.

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Critical Thinking: Evaluate and predict the outcomes of organic reactions based on knowledge of functional groups, reactivity patterns, and reaction mechanisms.

Laboratory Techniques: Perform basic laboratory techniques in organic chemistry, such as extraction, distillation, chromatography, and spectroscopic analysis (IR, NMR).

Drawing and Interpreting Structures: Skillfully draw organic molecules using Lewis structures, line-angle formulas, and skeletal representations. Interpret these representations to predict properties and reactivity.

Spectroscopic Analysis: Interpret IR, NMR, and mass spectra to identify functional groups, predict molecular structure, and determine purity.

Literature Review: Navigate and extract information from scientific literature and databases to understand the latest developments in organic chemistry.

Safety and Handling: Understand and follow safety protocols for handling and disposing of organic chemicals in the laboratory.

Application-Based Outcomes:
Biological Relevance: Discuss the role of organic chemistry in biological systems, including the structure and function of biomolecules (proteins, nucleic acids, carbohydrates, lipids).

Medicinal Chemistry: Understand the principles of drug design, structure-activity relationships, and the importance of stereochemistry in pharmaceuticals.

Polymer Chemistry: Describe the synthesis and properties of important polymers, including their applications in materials science and industry.

Environmental Chemistry: Discuss the impact of organic pollutants, pesticides, and herbicides on the environment, and explore sustainable chemistry practices.

Industrial Applications: Explain the use of organic chemistry in industrial processes, such as petrochemical refining, food production, and materials synthesis.

Organic Spectroscopy: Apply spectroscopic techniques (IR, NMR, MS) to elucidate the structure of unknown organic compounds.

Mechanism Prediction: Propose reasonable mechanisms for organic reactions based on known principles and experimental evidence.

Synthetic Planning: Design multi-step synthesis routes to transform simple starting materials into complex organic molecules.

These learning outcomes are designed to provide students with a comprehensive understanding of organic chemistry principles, practical skills in the laboratory, and the ability to apply this knowledge to real-world problems in various fields.

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Teaching methodologies

- Attendance:80% of attendance is compulsory.
- Exam pattern: offline.

Syllabus

Unit I:- 1] Electronic Structure and Bonding
2] Alkanes and conformational analysis

Unit II:- 1] Stereochemistry
2] Acids and Bases

Unit III:- 1] Alkenes: structure and reactivity (Addition reactions)
2] Alkynes : structure and reactivity (Addition reactions)

Unit IV:- 1] Alkyl halides: structure and reactivity (Substitution and elimination reactions)
2].Alcohols Ethers and Epoxides ,Aromatic hydrocarbons and aromaticity

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CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

TIMETABLE

Date	Time	Course	Faculty	Room No
20/01/2020 to 06/02/2020	8.30 to 9.30 AM	BASICS IN ORGANIC CHEMISTRY	Dr. K.S. Niralwad Mr. P. R. Pande	08

Examination Pattern and Marks distribution

A. Final exam Questions are to be set from entire syllabus.

B. The internal assessment marks shall be awarded on the basis of assignment.

C. A minimum of 40 % score will be required separately to pass the theory and internal assessment.

Sr. No.	Theory/Int. Assessment	Total marks	Min. marks for passing
1.	Theory	40	16
2.	Assignment	10	06
3	Total	50	22

Grade-

1-40-50=O

2-30-40=A

3-20-30=B

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CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

Time Table

Sr.No	Date	Time	Topic	Name of Faculty
1	20/01/2020 -21/01/2020	8.30 to 11:50	Overview of Organic Chemistry Introduction to Carbon Compounds	Mr. T.U. Kendre Mr. P.R. Pande
2	22/01/2020-24/01/2020	8.30 to 9.30	Functional Groups and Their Properties	Dr. K. S. Niralwad
3	25/01/2020-27/01/2020	8.30 to 9.30	Nomenclature and Isomerism Reaction Mechanisms	Mr. P.R. Pande
4	28/01/2020-31/01/2020	8.30 to 9.30	Aromatic Compounds	Dr. K. S. Niralwad
5	01/02/2020-03/02/2020	8.30 to 9.30	Seminars Types of Organic Reactions	Mr. P.R. Pande
6	04/02/2020-06/02/2020	8.30 to 9.30	Stereochemistry	Dr. K. S. Niralwad

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References

1. J. Clayden, N. Greeves, S. Warren, Organic Chemistry, 2nd edition, Oxford Unviersity Press, New Delhi, 2012.□
2. R. T. Morrison, R. N. Boyd, Organic Chemistry, 6th edition, Prentice-Hall, New Delhi,1992.
3. P. Y. Bruice, K. J. R. Prasad, Essential Organic Chemistry, 1st edition, Pearson Education, New Delhi, 2008
4. D. Nasipuri, Stereochemistry of organic compounds, Principles and Applications, 3rd Ed. New Age International Publishers, 2018.
5. P. S. Kalsi, Stereochemistry: Conformation and Mechanism, 9th Ed, New Age International (P) Ltd., 2017.
6. Ernest L. Eliel, Samuel H. Wilen, Stereochemistry of Organic Compounds, Wiley India Ed, 2008.
7. I. L. Finar, Organic Chemistry, Volume 2: Stereochemistry and The Chemistry of Natural Products, Chapter 2, 5th Ed, Pearson Education India, 1956

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Question paper

Total Marks-40 **Time-1.30 min**
Date 06/02/2020

----- Attempt any Four of the following

Q.1 Write note on types of reactions 10 Marks

Q.2 Describe the Reaction intermediates. 10 Marks

Q.3 Write a note on types of reagents. 10 Marks

Q.4 Write a short note on Preparation of Alkanes, Alkenes and alkynes 10 Marks

Q.5 Write a short on E - Z nomenclature 10 Marks

Q.6 Write a note on aromaticity Explain Huckel Rule. 10 Marks

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Assignment- I

Total Marks-10

Attempt the following Questions

Q.1 Write a note on Basic rules of IUPAC Nomenclature of alkanes, alkenes, alkynes, alcohols, ethers, aldehydes, ketones, carboxylic acid, carboxylic acid derivatives

Q.2 Write a note on Rearrangement reactions

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CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

Result

Sr. NO	Name of the student	Marks Obtained			Grade
		Theory 40Marks	Assignment 10 Marks	Total Mark	
1	GIRAM SAPANA VILAS	38	10	48	O
2	JOSHI LALITA VISHWAMBAR	35	10	45	O
3	MAGAR RUTUJA RAJEBHAU	32	10	42	O
4	MORE GOKUL SHIVAJI	36	10	46	O
5	NAIK MANSI JAYWANTRAO	37	10	47	O
6	AGHAV MUKUND SHIVAJI	35	10	45	O
7	BHISE OMKAR SURESHRAO	33	10	43	O
8	BHISE YOGESH SUDHAKAR	33	10	43	O
9	BORADE ANUJA PARMESHWAR	34	10	44	O
10	BORKAR DATTA RAMPRASAD	38	10	48	O
11	CHATTE ROHINI	32	10	42	O
12	DHOKE JOYTI LAXMAN	36	10	46	O
13	GADEKAR KAILAS ROHIDAS	34	10	44	O
14	KULKARNI MANSI ANANTRAO	33	10	43	O
15	LIPNE PAVAN GANGADHAR	35	10	45	O
16	AGHAV GANESH SHIVAJI	33	10	43	O
17	BARKULE BHAGYASHREE RAVI	32	10	42	O
18	GAJMAL RAM SUDAM	36	10	46	O
19	GHODKE TEJAS LAXMANRAO	37	10	47	O
20	KULKARNI SHRIPAD GOPALRAO	38	10	48	O

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Attendance

Sr. No.	Name of Students	20	21	22	23	24	25	27	28	29	30	31	1	3	4	5	6
1	GIRAM SAPANA VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	JOSHI LALITA VISHWAMBAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	MAGAR RUTUJA RAJEBHAU	A	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P
4	MORE GOKUL SHIVAJI	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
5	NAIK MANSI JAYWANTRAO	P	A	A	P	A	P	A	P	P	P	P	P	P	P	P	P
6	AGHAV MUKUND SHIVAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	BHISE OMKAR SURESHRAO	P	P	P	P	P	A	P	A	A	P	A	P	P	P	P	P
8	BHISE YOGESH SUDHAKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	BORADE ANUJA PARMESHWAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	BORKAR DATTA RAMPRASAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	CHATTE ROHINI	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
12	DHOKE JOYTI LAXMAN	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
13	GADEKAR KAILAS ROHIDAS	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A
14	KULKARNI MANSI ANANTRAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	LIPNE PAVAN GANGADHAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
16	AGHAV GANESH SHIVAJI	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
17	BARKULE BHAGYASHREE RAVI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
18	GAJMAL RAM SUDAM	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
19	GHODKE TEJAS LAXMANRAO	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
20	KULKARNI SHRIPAD GOPALRAO	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P

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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

Feedback from student on certificate course

Full name of the student: ----------

Class:----------

Title of the Certificate course:----------

Name of Department/Committee: ----------

Rate the COC by choosing an appropriate option on 5 point scale as shown below.

1. Usefulness Of the Course : 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

2.syllabus of the course: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

3. Course Conduction: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

4. Teaching faculty: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

5. Conducted Tests : 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

6.Convenience of time: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

7. Relevance of the course in 211st Century: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

8. Overall impact of the course: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

9. Suggestions if----------
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Signature of student

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On 20/01/2020 to 06/02/2020.

CERTIFICATE

This is to certify that Mr/Mrs/_____of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade_____. He/She completed 2 Week certificate Course.

Course Co-ordinator IQAC Co-ordinator Principal

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This is to certify that Mr/Mrs/ Gugm Sapna Vilas of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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Course Co-ordinator

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This is to certify that Mr/Mrs/ Naik Mansi Jaywantrao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Aghav Mukund Shivaji of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Bhise Omkar Sureshrao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Borade Anuja Parmeshwar of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Borkar Datta Ramprasad of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Chatte Rohini of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Dhoke Jyoti Laxman of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Gadekar Kailas Rohidas of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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This is to certify that Mr/Mrs/ Kulkarni Mansi Anantrao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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Course Co-ordinator

IQAC Co-ordinator

Principal

Director
IQAC
Nutan Mahavidyalaya, Selu

Nutan Mahavidyalaya
SELU, Dist. Parbhani

Nutan Vidyalaya Shikshan Sanstha's

NUTAN MAHAVIDYALAYA SELU, DIST. PARBHANI

CERTIFICATE COURSE ON BASICS IN ORGANIC CHEMISTRY

On 20/01/2020 to 06/02/2020.

CERTIFICATE

This is to certify that Mr/Mrs/ Lipne Pavan Gangadhar of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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Course Co-ordinator

IQAC Co-ordinator

Director
IQAC
Nutan Mahavidyalaya, Selu

Principal

PRINCIPAL
Nutan Mahavidyalaya
SELU, Dist. Parbhani

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On 20/01/2020 to 06/02/2020.

CERTIFICATE

This is to certify that Mr/Mrs/ Aghav Ganesh Shivaji of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A He/She completed 2 Week certificate Course.

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Course Co-ordinator

IQAC Co-ordinator

Director
IQAC
Nutan Mahavidyalaya, Selu

Principal
PRINCIPAL
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CERTIFICATE

This is to certify that Mr/Mrs/Baskule Bhagyashree Ravi of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

Course Co-ordinator

IQAC Co-ordinator

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Principal

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This is to certify that Mr/Mrs/ Gajmal Ram Sudam of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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Course Co-ordinator

IQAC Co-ordinator

Director
IQAC
Nutan Mahavidyalaya, Selu

Principal
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On 20/01/2020 to 06/02/2020.

CERTIFICATE

This is to certify that Mr/Mrs/ Ghodke Tejas Laxmanrao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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Course Co-ordinator

IQAC Co-ordinator

Director
IQAC
Nutan Mahavidyalaya, Selu

PRINCIPAL
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CERTIFICATE

This is to certify that Mr/Mrs/ Kulkarni Shripad Gopalrao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "basics in organic chemistry" during the Academic year 2019-20 with the grade A. He/She completed 2 Week certificate Course.

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IQAC Co-ordinator

Director
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Nutan Mahavidyalaya, Selu

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