

**A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND
DISSOLUTION APPARATUS**

**Conducted by
MULA EDUCATION SOCIETY'S
COLLEGE OF PHARMACY**

**Submitted to
SAVITRIBAI PHULE PUNE UNIVERSITY,**



ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI



**In partial fulfilment of the requirement for the award of post
graduate degree in**

**MASTER OF SCIENCE
(Analytical Chemistry)**

By

Bade Prasad Balasaheb

Under the guidance of

**Prof. Lande M. B
Assistance Professor
(Department of Chemistry)**

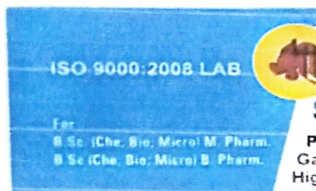
CERTIFICATE



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSIC/2024/001

CERTIFICATE

This is to certify that Mr/~~Miss~~/Mrs Bade Prasad Balasaheb
has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.


Mr. A. C. Vispute
R.S.I.C Director


Dr. J.G. Wagh
Coordinator


Dr. A. R. Pawar
Head, Dept. of Pharmaceutics


Dr. V. K. Deshmukh
Principal



Mula Education Society's
ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI
Tal. Newasa, Dist- Ahmednagar – 414105





Ph.: 02427-299384 Email: sonacollege@yahoo.co.in, mesacsccollege@gmail.com Web.: www.acscollegesonai.edu.in
Affiliated to Savitribai Phule Pune University, Pune (I.D.PU/AN/ASC/031/1989)
NAAC Re-accredited with 'A' Grade, DBT Star College Scheme, ISO 9001: 2015, ISO 14001:2015 Certified, AISHE Code – C-42096


Certificate


This is to certify that the work incorporated in the project report on Handling of Analytical Instrument and Dissolution Apparatus by Mr. Bade Prasad Balasaheb student of Arts, Commerce and Science College Sonai, Tal. Newasa, Dist. A. Nagar. Affiliated to the Savitribai Phule Pune University, successfully completed project.

Date: 9/5/2024


09/05/24
Guide Teacher/
Internal Examiner


Head
Dept. of Chemistry


9/5/2024
External Examiner
Examined


Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND
DISSOLUTION APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF
PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Analytical Chemistry)

Submitted by

Bhide Tejal Madhukar

Under the guidance of

Prof.Lande M.B

Assistant Professor
Department of Chemistry

Arts, commerce and science college,sonai



Mula Education Society's
Arts, Commerce and Science College, Sonai

Certificate

This is certified that **Miss .Bhide Tejal Madhukar** of class **MSC –I (Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during 2023-2024

Date: 29/05/2024

Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Solapur, (M.S.), Pin-431105

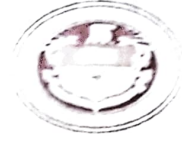
Guide Teacher /
Internal Examiner

Head
Dept. of Chemistry

9/5/2024
External Examiner
Examined



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal. Newasa Dist. Ahmednagar-414104



In collaboration with

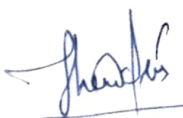


Certificate

This is to certify that **Miss .Bhide Tejal Madhukar** , student enrolled for M.Sc.I (Analytical chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Bhise Mahesh Jalindar

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Bhise Mahesh Jalindar** of class **MSC –I (organic chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during 2023-2024

Date: 09/03/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/3/2024
External Examiner
Examined

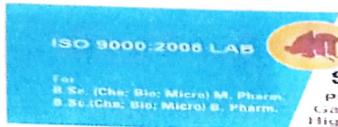
**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
 Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



RELIABLE'S
SHREE INDUSTRIAL TRAINING CENTER
 PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
 Gas Chromatography (GC)
 High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RS/10/

CERTIFICATE

This is to certify that Mr/~~Miss~~/Mrs Bhise Mahesh Jalindar
 has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.

Mr. A. C. Vispute
 R.S.I.T.C Director

Dr. J. G. Wagh
 Coordinator

Dr. A. R. Pawar
 Head, Dept. of Pharmaceutics

Dr. V. K. Deshmukh
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Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Bidgar Amol Dattatray

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Bidgar Amol Dattatray** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

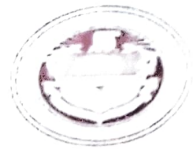
**Head
Dept. of Chemistry**

**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar, MH, Pin-414105**

External Examiner



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



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RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

B.Sc. (Che, Bio, Micro) M. Pharm.
B.Sc. (Che, Bio, Micro) B. Pharm.

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

Certificate

This is to certify that **Mr. Bidgar Amol Dattatray**, student enrolled for M.Sc.I (Organic /Analytical Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

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Date: 15/04/2024

Signature & Seal

VICE PRINCIPAL

Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Dahatonde Saurabh Subhash

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Dahatonde Saurabh Subhash** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

**External Examiner
Examiner**

**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
 Tal. Newasa Dist. Ahmednagar 414105



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RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

For
 ■ B. (Chem. Bio. Micro) M. Pharm.
 ■ B. (Chem. Bio. Micro) B. Pharm.

PRAC. LAB TRAINING OF ANALYTICAL INSTRUMENTS

UV-VIS SPECTROPHOTOMETER, FTIR, HPLC & DISSOLUTION TEST APPARATUS

100, MIDC AREA, CHANDRANAGAR, TAL. NAWASA, DIST. AHMEDNAGAR, MAHARASHTRA-414105

CERTIFICATE NO. CS/SH

CERTIFICATE

This is to certify that **Mr/Ms/Ms Dahitonde Savabh Subhash**
 has participated and completed "Hands on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Talgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonai, Tal. Newasa, Dist. Ahmednagar.

(Signature)

Mr. A. C. Mispate

(Signature)

Dr. J. G. Wagh

(Signature)

Dr. A. R. Pawar

(Signature)

Dr. V. K. Deshmukh

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND
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Conducted by
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PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Analytical Chemistry)

Submitted by

Dahatonde Vaishnavi Adinath

Under the guidance of

Prof.Lande M.B

Assistant Professor
Department of Chemistry

Arts, commerce and science college,sonai




Mula Education Society's
Arts, Commerce and Science College, Sonai


Certificate


This is certified that **Miss .Dahatonde Vaishnavi Adinath** of class **MSC –I (Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 29/05/2024


Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105


Guide Teacher /
Internal Examiner


Head
Dept. of Chemistry


9/5/2024
External Examiner
Examined



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 41405



In collaboration with




Certificate

This is to certify that **Miss . Dahatonde Vaishnavi Adinath**, student enrolled for M.Sc.I (Analytical chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

**A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND
DISSOLUTION APPARATUS**

Conducted by
**MULA EDUCATION SOCIETY'S
COLLEGE OF PHARMACY**

Submitted to
SAVITRIBAI PHULE PUNE UNIVERSITY



ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI



In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Analytical Chemistry)

By

Darandale Dnyaneshwari Ganesh

Under the guidance of
Prof. Lande M. B
Assistance Professor
(Department of Chemistry)

CERTIFICATE



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



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RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

For
B.Sc. (Chem. & Micro) M. Pharm.
B.Sc. (Chem. & Bio) Micro B. Pharm.


PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSITC/ /


CERTIFICATE

This is to certify that Mr/Miss/Mrs Darandale Dnyaneshwari Ganesh
has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.


Mr. A. C. Vispute
RSITC Director


Dr. J. G. Wagh
Coordinator


Dr. A. R. Pawar
Hec. Dept of Pharmaceutics


Dr. V. K. Deshmukh
Hec. Dept of Pharmaceutics



Mula Education Society's

ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI

Tal. Newasa, Dist. Ahmednagar - 414105



Ph.: 02427-299394 Email: sonai@allego@yahoo.com, sonai@allego@gmail.com Web: www.allego.com
Affiliated to Savitribai Phule Pune University, Pune (U. No. 27/ANM/2015/1986)
NAAC Re-accredited with 'A' Grade (B1 Star) College Scheme (U. No. 27/ANM/2015/1986) (U. No. 27/ANM/2015/1986)

Certificate

This is to certify that the work incorporated in the project report on Handling of Analytical Instrument and Dissolution Apparatus by MS. Darandale Dnyaneshwari Ganesh are student of Arts, Commerce and Science College Sonai, Tal. Newasa, Dist. A. Nagar. Affiliated to the Savitribai Phule Pune University, Pune successfully completed project.

Date 5/2024

Guide Teacher/
Internal Examiner

Head
Dept. of Chemistry

External Examiner

Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (W), M. 414105

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Deshmane Chaitany Gahininath

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Deshmane Chaitany Gahininath** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

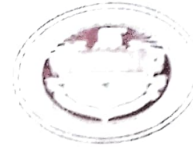
**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

**External Examiner
Examiner**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal. Newasa Dist. Ahmednagar 414005



In collaboration with



ISO 9000:2008 LAB



For
M.Sc. (Che. Bio. Micro) M. Pharm.
B.Sc. (Che. Bio. Micro) B. Pharm.

RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

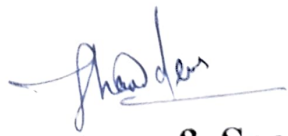
PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography, HPLC,
High Performance Liquid Chromatography

Certificate

This is to certify that **Mr. Deshmane Chaitany Gahininath**, student enrolled for M.Sc.I (Organic /Analytical Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Dhale Akshay Baban

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Dhale Akshay Baban** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

**External Examiner
Examiner**

**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (M.H.), Pin-414105**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
 Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



ISO 9000:2008 LAB



For
 B.Sc. (Che, Bio, Micro) M. Pharm
 B.Sc. (Che, Bio, Micro) B. Pharm.

RELIABLE'S

SHREE INDUSTRIAL TRAINING CENTER

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
 Gas Chromatography (GC)
 High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSIC/ /

CERTIFICATE

This is to certify that **Mr/Miss/Mrs** Dhale AKshay Baban
 has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy . Sonai, Tal- Newasa, Dist- Ahmednagar.

Mr. A. C. Vispute
 RSIC Director

Dr. J. G. Wagh
 Coordinator

Dr. A. R. Pawar
 Head, Dept. of Pharmaceutics

Dr. V. K. Deshmukh
 Principal

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Submitted to

SAVITRIBAI PHULE PUNE UNIVERSITY



ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI



In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Analytical Chemistry)

By

Dhale Pooja Popat

Under the guidance of

Prof. Lande M. B
Assistance Professor
(Department of Chemistry)

CERTIFICATE



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414195



In collaboration with



ISO 9000:2008 LAB

RELIABLE'S
SHREE INDUSTRIAL TRAINING CENTER

For
B.Sc. (Che; Bio; Micro) M. Pharm.
B.Sc. (Che; Bio; Micro) B. Pharm.

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
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Mr. A. C. Vispute
RSITC Director


Dr. J. G. Wagh
Coordinator


Dr. A. R. Pawar
Head, Dept. of Pharmaceutics


Dr. V. K. Deshmukh
Principal



Mula Education Society's
ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI

Tal. Newasa, Dist- Ahmednagar - 414105



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Affiliated to Savitribai Phule Pune University, Pune (I.D. PU/AN/ASC/03/1/1989)

NAAC Re-accredited with A Grade, DBT Star College Scheme, ISO 9001:2015, ISO 14001:2015 Certified, AISHE Code - C-42096

Certificate

This is to certify that the work incorporated in the project report on Handling of Analytical Instrument and Dissolution Apparatus by Ms. Dhale Pooja Popat are student of Arts, Commerce and Science College Sonai, Tal. Newasa, Dist. A. Nagar. Affiliated to the Savitribai Phule Pune University, Pune successfully completed project.

Date: 9/5/2024

Guide Teacher/
Internal Examiner

Head
Dept. of Chemistry

External Examiner

Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105

**A Project Report on
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Conducted by

**MULA EDUCATION SOCIETY'S
COLLEGE OF PHARMACY**

Submitted to

SAVITRIBAI PHULE PUNE UNIVERSITY



ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI



In partial fulfilment of the requirement for the award of post
graduate degree in

**MASTER OF SCIENCE
(Analytical Chemistry)**

By

Dhokane Ruchita Ashok

Under the guidance of

Prof. Lande M. B

Assistance Professor

(Department of Chemistry)



Mula Education Society's
ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI

Tal. Newasa, Dist- Ahmednagar – 414105



Ph.: 02427-299384 Email: sonacollege@yahoo.co.in, mesacsccollege@gmail.com Web.: www.acscollegesonai.edu.in
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Certificate

This is to certify that the work incorporated in the project report on Handling of Analytical Instrument and Dissolution Apparatus by MS. Dhokane Ruchita Ashok are student of Arts, Commerce and Science College Sonai, Tal. Newasa, Dist. A. Nagar. Affiliated to the Savitribai Phule Pune University, Pune successfully completed project.

Date: 9 / 5 / 2024

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Internal Examiner

Internal Examiner

Head

Dept. of Chemistry

9/5/2024
External Examiner

Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105

ACKNOWLEDGMENT

It gives pleasure to express my sincere thanks to my training guidance for his timely help, constant support, encouragement, valuable suggestion and generous treatment right from beginning till the end of training.

We convey our special thanks to Hon. Shri. Prashant Patil Gadakh President of Mula Education Society, Sonai, Shri. U.M. Londhe (Secretary of MES. Sonai) and Dr. V.K. Deshmukh Joint Secretary of MES, Sonai. We are also thankful to Dr. S.L. Laware Principal and Dr. D.E. Zine Vice Principal, Prof. B. L. Shinde Head of Department Chemistry of the college.

We completed this training under Mula Education Society's, College of Pharmacy and Shree Training Centre, Jalgaon. Our sincere thanks to all our teachers of chemistry department for their encouragement and support. We are indebted to our parents and best friends for their support and encouragement whatever we invented to be in future is becomes of them.

Place: Sonai

Date: 9 / 5 / 2024

Ruchita.

Signature of student

MS.Dhokane Ruchita Ashok

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Dhokane Shyam Dnyandev

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Dhokane Shyam Dnyandev** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 9/5/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

**External Examiner
Examiner**

**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (M.S.), Pin-414105**



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COLLEGE OF PHARMACY, SONAI

Tal- Newasa Dist- Ahmednagar 414105



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SHREE INDUSTRIAL TRAINING CENTER

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSITC/

CERTIFICATE

This is to certify that Mr/Miss/Mrs Dhokane Shyam Dnyande
has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.


Mr. A. C. Vispute
R.S.I.T.C Director


Dr. J. G. Wagh
Coordinator


Dr. A. R. Pawar
Head, Dept. of Pharmaceutics


Dr. V. K. Deshmukh
Principal

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Dudhade Aniket Babasaheb

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Dudhade Aniket Babasaheb** of class **MSC –I (organic chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/5/2024
**External Examiner
Examined**
Principal
Mula Education Society's
Arts, Commerce and Science College
Sonai, Tal. Newasa, Dist. Solapur, Maharashtra
Pin-4314105



Mula Education Society's
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 Tal- Newasa Dist- Ahmednagar 414105



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SHREE INDUSTRIAL TRAINING CENTER

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
 Gas Chromatography (GC)
 High Performance Liquid Chromatography (HPLC)

For
 B.Sc. (Bio- Bio, Mikro) M. Pharm
 B.Sc. (Bio- Bio, Mikro) B. Pharm


CERTIFICATE NO. RSITC/ /


CERTIFICATE

This is to certify that Mr/M/iss/M/rs Dudhade Aniket Babasaheb
 has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy , Sonai, Tal- Newasa, Dist- Ahmednagar.


Mr. A. C. Vispute
 R.S.I.T.C Director


Dr. J. G. Wagh
 Coordinator


Dr. A. R. Pawar
 Head, Dept. of Pharmaceutics


Dr. V. K. Deshmukh
 Principal

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Garud Tushar Pandurang

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Garud Tushar Pandurang** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

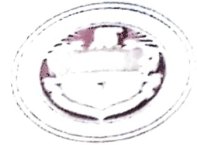
**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/5/2024
**External Examiner
Examined**



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COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



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For
B.Sc. (Chem, Bio, Micro) M. Pharm.
B.S.L. (Chem, Bio, Micro) B. Pharm.

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

Certificate

This is to certify that **Mr. Garud Tushar Pandurang**, student enrolled for M.Sc.I (Organic /Analytical Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024

Signature & Seal

VICE PRINCIPAL

Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Gudadhe Deepak Sonyabapu

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Gudadhe Deepak Sonyabapu** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/5/2024

External Examiner

Principal

**Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



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Practical Training of Analytical Instruments
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSTC/

CERTIFICATE

This is to certify that Mr/Miss/Mrs Gudbhe Deepak Sanyabapu
has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between **23/03/2024 to 13/04/2024** at Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.


Mr. A. C. Vispute
RSTC Director


Dr. J. G. Wagh
Coordinator


Dr. A. R. Pawar
Head, Dep. of Pharmaceutics


Dr. V. K. Deshmukh
Principal

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Jadhav Saurabh Ramrao

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Jadhav Saurabh Ramrao** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

**External Examiner
Examiner**



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 Tal- Newasa Dist- Ahmednagar 434015



In collaboration with



RELIABLE'S
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 PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
 Gas Chromatography (GC)
 High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. 2024

CERTIFICATE

This is to certify that Mr./Miss/Mrs Jashvi Saurabh Ramdas
 has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Jalgaon held between 25/03/2024 to 13/04/2024 at Maha Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.

Mr. A. C. Vispute
 R.I.T.C Director

Dr. J. G. Wagh
 Coordinator

Dr. A. R. Pawar
 Head, Dept. of Pharmaceutics

Dr. V. K. Deshmukh
 In-charge

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Katare Gorakshanath Bhausahab

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Katare Gorakshanath Bhausahb** of class **MSC –I (organic chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

Guide Teacher /
Internal Examiner

Head
Dept. of Chemistry

9/5/2024
External Examiner
Examined

Head of the Institution
Arts, Commerce & Science College
Mula Education Society, Sonai, Pune - 411025



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
Tal- Newasa Dist- Ahmednagar 414105



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For
M.Sc. (Chem. Bio. Micro) M. Pharm.
B.Sc. (Chem. Bio. Micro) B. Pharm.

PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

Certificate

This is to certify that **Mr. Katare Gorakshanath Bhausahab**, student enrolled for M.Sc.I (Organic Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Musmade Bharat Suresh

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. MUSMADE BHARAT SURESH** of class **MSC –I (organic chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/10/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/10/2024
**External Examiner
Examined**

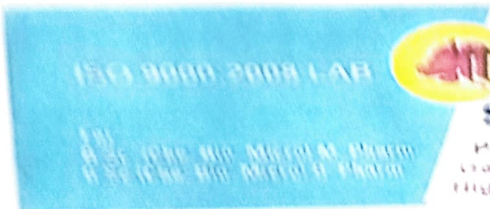
**Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414106**



Mula Education Society's
COLLEGE OF PHARMACY, SONAI
 Tal- Newasa Dist- Ahmednagar 414105



In collaboration with



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SHREE INDUSTRIAL TRAINING CENTER

PRactical TRAINING OF ANALYTICAL INSTRUMENTS
 Gas Chromatography (GC)
 High Performance Liquid Chromatography (HPLC)

CERTIFICATE

This is to certify that **Mr. Musmade Bharat Suresh** _____
 has participated and completed "Hands-on training on Analytical Instruments (UV-VIS Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by **Reliable's Shree Industrial Training Center, Jalgaon** held between **23/03/2024 to 13/04/2024** at **Mula Education Society's College of Pharmacy, Sonai, Tal- Newasa, Dist- Ahmednagar.**

Mr. V. C. Vajpure
 Director

Dr. J. G. Wagh
 Head, Dept. of Pharmaceutics

Dr. A. R. Pawar
 Head, Dept. of Pharmaceutics

Dr. V. K. Deshmukh
 Principal

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Pawar Sagar Sanjay

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Pawar Sagar Sanjay** of class **MSC – I (organic chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 29/05/2024

**Guide Teacher /
Internal Examiner**

**Head
Dept. of Chemistry**

9/5/2024
**External Examiner
Examiners**



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COLLEGE OF PHARMACY, SONAI
Tal. Newasa Dist. Ahmednagar 414105



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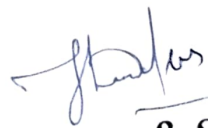
ISO 9000:2008 LAB  **RELIABLE'S**
SHREE INDUSTRIAL TRAINING CENTER
PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (GC), HPLC,
High Performance Liquid Chromatography (HPLC)

Certificate

This is to certify that **Mr. Pawar Sagar Sanjay**, student enrolled for M.Sc.I (Organic Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar



A PROJECT REPORT ON

**“HANDS ON TRAINING OF ANALYTICAL INSTRUMENTS HPLC
& UV-VIS SPECTROPHOTOMETER”**

SUBMITTED TO

DEPARTMENT OF CHEMISTRY,
ART, COMMERCE & SCIENCE COLLEGE, SONAI
& SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

FOR PARTIALFULFILLMENTOF

M.Sc. (1st) P.G. DEGREE

BY

Miss. Sansare Kareena Apasaheb

M.SC. 1st STUDENT

Under The Guidance of

Porf. Lande M. B.

HEAD, DEPARTMENT OF CHEMISTRY

**Mula Education Society's
Arts, Commerce & Science College, Sonai.
Tal- Newasa, Dist- A.Nagar
(2023-2024)**

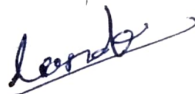



**Mula Education Society's
Arts, Commerce & Science College Sonai
Tal- Newasa, Dist- A.Nagar**


CERTIFICATE

This is to certify that **Miss. Sansare Kareena Appasaheb** of M. Sc. Ist Chemistry (Analytical) have successfully completed his report work entitled, **“Hands on training on Analytical instruments HPLC & UV-Visible spectrophotometer.”** under the guidance of **Prof. Lande M. B.** This project work is partial fulfillment of the PG degree of Masters of Science in chemistry under the course of **“CHE- 558: On Job Training”** restructuring program affiliated to Savitribai Phule Pune University Pune during academics year 2023-2024.

9/5/2024


Guide teacher /
Internal Examiner


Head
Examiner
Dept. of chemistry


9/5/2024
External
Examiner

Declaration

We hereby declare that the work done in this thesis “Hands on training on Analytical instruments HPLC & UV-Visible spectrophotometer” is submitted to department of chemistry, Arts, Commerce & Science College, Sonai. Under the course of CHE-558 on job training restructuring program Affiliated to Savitribai Phule pune university during Academic Year 2023-2024.

S.K.A

Project Student
Miss. Sansare Kareena Appasaheb

A Project Report on
HANDLING OF ANALYTICAL INSTRUMENT AND DISSOLUTION
APPARATUS

Conducted by
MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



SAVITRIBAI PHULE PUNE UNIVERSITY

AND



ARTS, COMMERCE AND SCIENCE COLLEGE,
SONAI

In partial fulfilment of the requirement for the award of post
graduate degree in

MASTER OF SCIENCE

(Organic /Analytical Chemistry)

Submitted by

Waghmare Nitin Bhausaheb

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry

Arts, Commerce and Science College, sonai



**Mula Education Society's
Arts, Commerce and Science College, Sonai**

Certificate

This is certified that **Mr. Waghmare Nitin Bhausaheb** of class **MSC –I (Organic /Analytical chemistry)** has completed **Hand-on Training on Analytical Instruments** as laid down by **Arts, Commerce and Science College, Sonai** affiliated to **Savitribai Phule Pune University, Pune** Satisfactorily during **2023-2024**

Date: 09/05/2024

**Guide Teacher /
Internal Examiner**

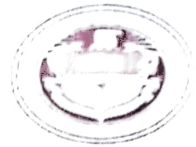
**Head
Dept. of Chemistry**

**External Examiner
Examiner**

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Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin-414105**



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Tal- Newasa Dist- Ahmednagar- 414105



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SHREE INDUSTRIAL TRAINING CENTER


PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
Gas Chromatography (HPLC)
High Performance Liquid Chromatography (HPLC)

Certificate

This is to certify that **Mr. Waghmare Nitin Bhausahab**, student enrolled for M.Sc.I (Organic /Analytical Chemistry) of Mula Education Society's Arts, Commerce and Science College Sonai completed Hands on training programme. He successfully completed hands on training of Analytical instruments as per the norms under the supervision of Experts of the Institute at College of Pharmacy, Sonai for a 120hrs from **23/03/2024 to 13/04/2024**.

The candidate has been sincere and engaging during the Hands on training programme. We wish him/her all the best for future endeavours.

Date: 15/04/2024


Signature & Seal
VICE PRINCIPAL
Mula Education Society's
College of Pharmacy, Sonai
Tal. Newasa, Dist. Ahmednagar