A Project Report on HANDLING OF ANALYATICAL INSTRUMENT AND DISSOULTION 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

STREET TRAINING OF ANALYTICAL INSTRUMENTS
So (Che, Bio; Micro) B. Pherm.
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSITC

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: sonaicollege@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 Dissoultion 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: 4/5/2024

Guide Teacher/

Internal Examinar

Head

Dept. of Chemistry

External Examinar

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

HANDLING OF ANALYATICAL 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: 09 105)2024

Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newsay, Disusant and Logar Min, Pin 41 1105

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

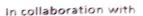
External Examinar

Examine



Mula Education Society's COLLEGE OF PHARMA() . NONAL Tak Sewasa Dist. Ahmednagar 414105









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

Mula Education Society's College of Pharmacy, Sonal Tal.Newasa, Diet. Ahmed magar

HANDLING OF ANALYATICAL 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: 0910312024

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

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









M RELIABLE's

SHREE INDUSTRIAL TRAINING CENTER

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

CERTIFICALL NO. RSHIC

CERTIFICATE

This is to certify that Mr/Mss/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

Dr. A. R. Pawar

Head, Dept. of Pharmaceutic

Dr. V. K. Deshmukh

Principal

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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: 0910512029

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

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

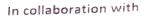
External Examiner

Snamhu



Mula Education Society's COLLEGE OF PHARMA() - () X X () Tal- New as a Dist-Ahmednagar 414105









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

Mula Education Society's College of Pharmacy, Sonai Tal.Newasa, Diet. Ahmed Magar

HANDLING OF ANALYATICAL 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: 09 105/2029

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

Enguiner

Mula Education Society's

Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin. 414105



Mula Education Society's COLLEGE OF PHARMACY, SONAL

Lal Newasa Dist Ahmednagar 414105









CERTIFICATE

This is to certify that Mi Mis Ms Dahatonde Saurabh Subhash has participated and completed. "Hands on training on Analytical Instruments (LVA)s Spectrophotometer FTIR, HPTC & Dissolution Test Apparatus)" organized by Reliable's Shree Industrial Training Center, Talgaon held between 23/03/2024 to 13/04/2024 at Mula I ducation Society's College of Pharmacy , Sonai, Laf. Newaya, Dist. Ahmeduagar

Mr. A. C. Vispute

Dr. J. G. Wagh

Dr. A. R. Pawar

Dr. V. K. Deshmukh

HANDLING OF ANALYATICAL 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

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

Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newsasa, Elist, Ahmednagar (MH), Pin, 414105

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

Examined



Mula Education Society's COLLEGE ()F PH \R\I\(\) \ \\(\) Tal- New asa Dist-Ahmednagar #14105

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.

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Date: 15/04/2024

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

A Project Report on HANDLING OF ANALYATICAL INSTRUMENT AND DISSOULTION APPARATUS

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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, SONAL

Tal- Newasa Dist- Ahmednagar 414105

In collaboration with







& Se. (Che. Bie: Miero) M. Pharm

8 Sc (Che: Bio: Micra) 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.

RSII (Director

Dr. J. G. Wagh

Coordinator

Hear Dept of Plant a color

Dr. V. K. Deshmukh



ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI

Tal. Newasa, Dist. Ahmednagar 414105



Ph.: 02427-299384 Email: exclair/ollege@yahrv.co.in. massarar/yillege@ggrost.ave. Wish amon sear/yillegeare stands.an
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Certificate

This is to certify that the work incorporated in the project report on Handling of Analytical Instrument and Dissoultion 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 7 5/2024

Guide Teacher/

Internal Examinar

Head

Dept. of Chemistry

External Examinar

Mula Education Society's Arts,Commerce & Science College

Sonal, Tal Newsca, Diof Africadiaga (Mit), Mic 414105

HANDLING OF ANALYATICAL 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: 09 105)2024

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

/ . . 1

Mula Education Society's
Arts, Commerce & Science College
Sonal, Tal, Newasa, Dist, Annedhagar (MH), Pin 4/105













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, Sonat Tal Newasa Dist Ahmediagar

HANDLING OF ANALYATICAL 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 Examinar

Head

Dept.of Chemistry

External Examinar

Mula Education Society's Arts, Commerce & Science College

Sanai, Tal. Newasa, Dist. Ahmedinagar (MH), Hin-414105



Mula Education Society's 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)

CERTIFICATI NO. RSITC/

CERTIFICATE

This is to certify that Mr/Miss/Mrs Dhale Akshay Baban "Hands-on training on Analytical Instruments (UV-VIS has participated and completed 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.t Director

Dr. J. G. Wagh

Coordinator

Dr. A. R. Pawar

Head, Dept. of Pharmaceutics

Dr. V. K. Deshmukh

Principa!

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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, SONAL

Tal- Newasa Dist- Ahmednagar 414105







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SHREE INDUSTRIAL TRAINING CENTER

B.Sc. (Che: Blo: Microl M. Pharm.
B.Sc. (Che: Blo: Microl B. Pharm.
Gas Chromatography (GC)
High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSITC

CERTIFICATE

This is to certify that Mr/Miss/Mrs Dhale Pooja Popal
has participated and completed "Hands-on training on Analytical Instruments (UV-VIS
Spectrophotometer, FTIR, HPLC & Dissolution Test Apparatus)" organized by Reliable's Shree
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College of Pharmacy, Sonai, Tal-Newasa, Dist-Ahmednagar.



Dr. J. G. Wagh

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: sonalcollege@yahoo.co.in mesacscoollege@gmail.com Web.:www.acscollegesonal.edu.in Affiliated to Sevitribal Phule Pune University, Pune (I.C. PUIAN/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 Dissoultion 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 Examinar

Head

Dept. of Chemistry

External Examina

Ereaminer

Mula Education Scricty's Arts, Commerce & Science College Sonal Tal News & Lost Ahmicanagar (MH), Pin 414105

A Project Report on HANDLING OF ANALYATICAL INSTRUMENT AND DISSOULTION APPARATUS

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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

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Affiliated to Savitribai Phule Pune University, Pune (I.D.PU/AN/ASC/031/1989)
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Certificate

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Date: 9 / 5 /2024

Guide Teacher/

Internal Examinar

Head

Dept. of Chemistry

External Examinar

Exemple

ducation society's

Arts, Commerce & Science College Sonai, Tal. Newasa, Dist. Ahmeenagar (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 (Secretory of MES. Sonai) and Dr. V.K. Deshmukh Joint Secretory 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

Buchita.

Signature of student

MS.Dhokane Ruchita Ashok

HANDLING OF ANALYATICAL INSTRUMENT AND DISSOLUTION APPARATUS

Conducted by

MULA EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Submitted to



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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: 915/2024

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

Mula Education Society's

Arts, Commerce & Science College Sonai, Tal, Newasa, Bist, Ahmedhagar, VHI, Rin 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 Petfermance Liquid Chromatography (HFLG)

CERTIFICATE NO. RSITC

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Mr. A. C. Vispute

Dr. J. G. Wagh

Dr. A. R. Pawar Heac, Dept. of Pharmicestics Dr. V. K. Deshmukh

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

MASTER OF SCIENCE

(Organic Chemistry)

Submitted by

Dudhade Aniket Babasaehb

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry



Certificate

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Date: 09 10 5 12024

Guide Teacher /

Internal Examinar

Head

Dept.of Chemistry

External Examinar

Examined

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Sonai, Tal, Newasa, C • qa Mil) Pin 41410



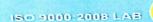
Mula Education Society's COLLEGE OF PHARMACY, SONAI

Tal- Newasa Dist- Ahmednagar 414105











PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS $\begin{array}{lll} & \text{for} & \text{for} & \text{filter} & \text$ Gas Chromatography (GC) High Performance Liquid Chromatography (HPLC)

CERTIFICATE NO. RSITC/

CERTIFICATE

This is to certify that Mr/Mss/Mrs _ Dudhade Aniket Babasaheb "Hands-on training on Analytical Instruments (UV-VIS has participated and completed 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.

R.S.I.T.C Director

Dr. J. G. Wagh Coordinator

Dr. A. R. Pawar Head, Dept. of Pharmaceutics Dr. V. K. Deshmukh

Principal

HANDLING OF ANALYATICAL 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



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: 0910512024

Guide Teacher /

Internal Examinar

Dept.of Chemistry

Mula Education Society's Arts, Commerce & Science College

Sanai, Tal News Los Latin Lating (MH), Pin-414105



Mula Education Society's COLLEGE OF PHARMACANA Tal- Newsas Dist-Ahmednagar 414105









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

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

HANDLING OF ANALYATICAL 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



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: 09105/2029

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Head

Dept.of Chemistry

External Examinar

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PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
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Grudblide Deepnk Sonyabapu

has participated and completed "Hands-on training on Analytical Instruments (UV-VIS

Spectraphotometer, 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. Soniai, Tal-Newasa, Dist-Ahmednagar.



ပြုဖြင့် Dr. J. G. Wagh Dr. A. R. Pawar Head, Dep. of Pharmaceutics

Dr. V. K. Deshmukh

HANDLING OF ANALYATICAL 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



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

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Sonai, Tal. Newasa, Dist. Ahmednagar (MH), Pin. 414105



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CERTIFICATE

This is to certify that Mr Mess Mrs _______ Jadhov Saurabh Romrac has participated and completed "Hunds-in training in Analytical Instruments (EV-VIS Spectrophonometer, FTIR, HPLC & Dissolution Test Apparatus/* organized by Reliable's Shree Industrial Training Center, Jaigana held between 23/03/2824 to 13/04/2824 at Main Education Society's College of Pharmacy . Sonai, Tal-Newssa, Dist-Ahmedingur,



Dr. J. G. Wagh Complinator

Dr. & R. Pawar freed Dept. of Photographics

HANDLING OF ANALYATICAL 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 Bhausaheb

Under the guidance of

Prof.Lande M.B

Assistant professor

Department of chemistry



Certificate

This is certified that Mr. Katare Gorakshanath Bhausaheb 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

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ISO 9000:2008 LAB MELIABLE'S SHREE INDUSTRIAL TRAINING CENTER PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS
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Certificate

This is to certify that Mr. Katare Gorakshanath Bhausaheb, student enrolled for M.Sc.I (Organic Chemistry) of Mula Education Society's Arts, Commerce and Science College completed Hands on training programme. He Sonai 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

College of Pharmacy, Sonai

Tal.Newasa, Diet. Ahmed nagar

HANDLING OF ANALYATICAL 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



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: 0910512024

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Head

Dept.of Chemistry

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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





PRACTICAL TRAINING OF ANALYTICAL INSTRUMENTS

That Chantelegraphy (GC)
High Performance Equid Chromatography (HPLC)

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The experimental man Michigan Michigan Museumale Bhorest Suresh has purposed and completed "Hands-on training on Analytical Instruments (UV-VIS Specifical Training Center, Julyana held between 23/03/2024 to 13/04/2024 at Mula Education Society's College of Pharmacy, Sonat, Cal. New ava, Dist. Ahmedinagar.

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Mark Wash

Dr. A. R. Pawar

Dr. V. K. Deshmukh

Principal

HANDLING OF ANALYATICAL 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



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: 0910512024

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Nice Connerce & Science College 1907, J. McKass DistAhmednayor(MH), Pin-41, 103



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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 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

VICE PRINCIPAL

Mula Education appliety's College of Pharmacy, Sonai Tal. Newasa, Dist. Ahmed agar





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. (Ist) P.G. DEGREE

BY

Miss. Sansare Kareena Apasaheb

M.SC. Ist 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.

Guide teacher /

Internal Examiner

Head
Examiner
Dept. of chemistry

External

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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.

5-4.8

Project Student Miss. Sansare Kareena Appasaheb

HANDLING OF ANALYATICAL 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



Certificate

This is certified that Mr. Waghmare Nitin Bhausahebof 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

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Certificate

This is to certify that **Mr. Waghmare Nitin Bhausaheb**, 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: 1570412024

Signature & Seal
VICE PRINCIPAL
Mula Education Society's

Mula Education Society S College of Pharmacy, Sonai Tal.Newasa, Diet. Ahmedwagar