



College of Arts,
Science &
Commerce (Autonomous)

RISE WITH EDUCATION

NAAC REACCREDITED - 'A' GRADE

**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE, (AUTONOMOUS), SION (W),
MUMBAI -22**


NAAC SSR – CYCLE 4 : 2018-2023

**Metric No. 1 : 1.3.3 Percentage of Programs that have components of field projects /
research projects / internships during the last five years**

**The document contains Field Project / Research Project / Internship documents for the
Academic year 2019-20 of the following departments.**

- English
- Biotechnology
- PGDFTN
- MSc Biochemistry
- MSc Botany
- ADMLT

*This is to certify that the attached documents from page numbers 2 to 57 have been
verified and found to be true.*


Principal
SIES College of Arts, Science &
Commerce (Autonomous)
Sion (West), Mumbai - 400 022.



Principal

College Seal



Sisters Adorers,
Marol Maroshi Road, Andheri (E),
Mumbai 400059- India,
Tel: 022 29259241-29259884,
19th october 2019

Akshaya Chattire has been coming to our organization since 12th of January. She has covered the sessions on menstrual hygiene and also had some interaction sessions with children. This was really helpful for the children in their learning and growth.

Velencia

Your's faithfully

Sr. Velencia

NAVAJYOTHI
ADORERS CONGREGATION
MAROL MAROSHI ROAD,
ANDHERI (EAST),
MUMBAI - 400 059.



S.H.E.D.

**SOCIETY FOR HUMAN AND
ENVIRONMENTAL DEVELOPMENT**

(Registered Under Society Registration Act, XXI of 1960 and Mumbai Public Trust Act, 1950)

DHARAVI COMMUNITY WELFARE CENTRE

255

A1920 255

Founder
BEGUM BILKEES LATIF

President
MANECK DAVAR

Chief Executive
MR. RAJENDRA TAWDE

Ref. _____

Date st 1 Feb, 2020

To
The Principal,
S.I.E.S. College of Commerce and economics
T.V. Chidambaram Marg,
Sion (East)
Mumbai

Dear Sir / Madam,

This is to certify that **Ms. Prerna Naidu** has put in 12 hours of Voluntary service at our **SHED** organization during the period 3rd January 2020 to 8th January 2020. Her conduct during the period was satisfactory.

M. Rashid
Mariam Rashid
Dy. CEO
SHED



Transit Camp, SHED Complex, Near Urdu Municipal School, Behind Dharavi Police Station, Mumbai-400 017.
Tel : 24090483 • E-mail : orgshed@yahoo.co.in • sheddharavi@gmail.com

Follow on :

Founded by Begum Bilkees Latif in 1983 with a vision to empower the underprivileged and vulnerable sections of society, especially women and girls, through activities promoting self-reliance and human dignity, with a focus on value and ethics.



SRI SATHYA SAI SEVA SAMITHI

A1920256

'SAI PREM'
PLOT 13 A, SECTOR 10A, VASHI,
NAVI MUMBAI 400 703. TEL: 780 1867

Ref No. _____

Date : _____

To Whom It May Concern,

This is to certify that Chrysl D'souza has organised and conducted a workshop at Sai Prem Institute on the date 8th December, 2019. The workshop was conducted in 2 sessions.

Chrysl D'souza was sincere, dedicated and devoted to all the tasks entrusted to her and has helped in spreading awareness on gender issues.

We wish her the best in all that she does and wish that she stays in touch with Sai Prem Institute.

Yours sincerely,

Priya Rajwade
Saideep co-ordinator
Saiprem



Letter of Internship Experience at URJA Trust

1st February 2020

To Whomsoever it may concern,

Michelle Fernandes doing her Third Year Bachelors in Arts, from SIES College of Arts, Science and Commerce, Mumbai, was an involved intern at URJA Trust. She interned with us from 3rd January – 30th January 2020.

URJA Trust is a registered NGO, facilitating the journey of homeless young women between the aged of 18-30 years, to lead their lives with dignity, through our holistic development programme. The young women were forced to leave their homes due to excessive discrimination and violence from their family and/or community due to their gender and often times their caste.

During the internship period, Michelle's tasks included tutoring homeless young women in basic English and also other topics, research on livelihood options for the young women and data filling.

Michelle is a hardworking and enthusiastic worker. She has strong work ethics which were highlighted throughout her internship period.

We at URJA Trust wish her the best in her future endeavours.

Warm Wishes,

Charu Chaturvedi
Resource Programme Manager
URJA Trust



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Dhuru Building, 2nd floor
Gokhale Road, Dadar (W)
Mumbai 400 028, INDIA
Tel: 022 - 2432 8699
Email : akshara.frea@gmail.com
Website: www.aksharacentre.org

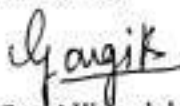
To Whomsoever it May Concern

This is to certify that Ms. Prachi Goradia, a student pursuing B.A in English Literature from, SIES College of Arts, Science and Commerce has interned with Akshara (a Non Profit organization for Women Empowerment) from 17th October to 29th November, 2019.

In the time she has spent at Akshara she has assisted us in online research and ideation for events and activities with our Program beneficiaries. She identified herself with Akshara's goal of achieving women empowerment, she has added value to the work by her own reflections.

Acknowledging her contributions for the organization, we wish her the best of luck in her future studies and career.

Sincerely,



Gargi Khandekar

Program Officer,
Akshara Centre

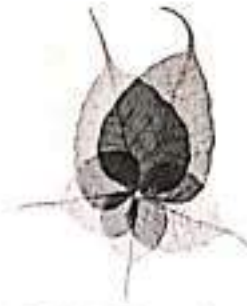


Maitreyi Nigwekar
Founder & CEO

M.Sc. Health Psychology,
University of Leeds, United Kingdom

M.A. Counselling Psychology,
SNDT University, Mumbai

Aft Based Therapy Practitioner



Adveka Foundation

- A Mental Health Organization for Caregivers

Charitable Trust [Bombay Public Trust Act, 1950, No. E-10293, Mumbai]

Mo: 982093 4534 | advekafoundation@gmail.com | www.advekafoundation.com

Date: 2nd February 2020

To whomsoever it may concern

About Adveka Foundation: Adveka Foundation is a non-profit, non-governmental organisation [Bombay Public Trust Act, 1950, No. E-33893, Mumbai] that works for Mental Health. Our work focuses on the mental well-being of Caregivers of people with different physical and mental health issues. Adveka Foundation identifies these Caregivers from NGOs, Hospitals and works with them. Our psychotherapists provide Individual Counselling and facilitate Support Groups with these Caregivers. These sessions are designed to increase the Caregivers' Resilience, Healthy Coping Skills and reduce their feelings of Perceived Caregiver Burden and Stress.

Ms. Harini Seshadri has been a part of Adveka Foundation from November 2019 onwards. She was an extremely active part of the social media team, assisting in creating awareness about mental health on all our platforms. As part of the team, she also created content which was specific to our work with caregivers and mental health. Harini also helped our psychologists facilitate a few sessions over the course of her internship.

Harini has been tremendously enthusiastic about the work that was given to her and was particularly good at being a team worker. Her creativity towards creating content that was caregiver and mental health friendly has been great. She is a hard worker as well as nuanced in her work.

Her performance was highly satisfactory and showed dedication and enthusiasm towards her work.

Yours Sincerely,

(Maitreyi Nigwekar Pawar)

260, 264, 272



Fr. Agnel Multipurpose School & Jr. College

AGNEL CHARITIES (AGNEL SEVA SANGHI)

Sector -9A, Vashi, Navi Mumbai - 400703. INDIA.

S.S.C.-16.15.032

UDISE:27211004707(Pri)
27211004705(Sec)

H.S.C.-16.15.010

Our Ref : 560/2019-20/Sec.

Date : 25/02/2020

TO WHOMSOEVER IT MY CONCERN

A session on the topic "Gender Sensitization and Battling Stereotypes" was held on 4th February, 2020 for the students of Std. 9th, Fr. Agnel Multipurpose School, Vashi.

It was conducted by Mrudula Jadhav, Rajdeep Vijayaraj and Shriya Manohar, students of TYBA - English Literature, SIES College or Arts, science & commerce (Autonomous), Sion.

Thank you.

Regards,

A. Roy
Principal

Fr. Agnel M. School & Jr. College
Sector - 9A, Vashi, Navi Mumbai

Telephone : 27660711/27660712, Fax : 2766 0610 Email : agnelnm@yahoo.co.in, Office@agnelhamara.net
website : agnelhamara.net



SRI SATHYA SAI SEVA SAMITHI

'SAI PREM'
PLOT 13 A, SECTOR 10A, VASHI,
NAVI MUMBAI 400 703. TEL: 780 1867

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Ref No. _____

Date : _____

To Whom It May Concern,

This is to certify that Kavya Ashok has organised and conducted a workshop at Sai Prem Institute on the date 8th December, 2019. The workshop was conducted in 2 sessions.

Kavya Ashok was sincere, dedicated and devoted to all the tasks entrusted to her and has helped in spreading awareness on gender issues.

We wish her the best in all that she does and wish that she stays in touch with Sai Prem Institute.

Yours sincerely,

Priya Rajwade
Saideep co-ordinator
Saiprem



SRI SATHYA SAI SEVA SAMITHI

SAIPREM
PLOT 13 A, SECTOR 13A, VASHEE
NAVI MUMBAI 401 303, TEL: 022 281 1867

Ref No: _____

Date: _____

To Whom it May Concern,

This is to certify that Aanya Mishra has organised and conducted a workshop at Sai Prem Institute on the date 8th December, 2019. The workshop was conducted in 2 sessions.

Aanya Mishra was sincere, dedicated and devoted to all the tasks entrusted to her and has helped in spreading awareness on gender issues.

We wish her the best in all that she does and wish that she stays in touch with Sai Prem Institute.

Yours sincerely,

Priya Ragnade
Sai Deep coordinator
Saiprem

267

। हे स्त्रीशक्ति, तव नाम समाजोन्नति ।

SION BHAGINI SAMAJ

Registered Under Societies Registration Act No. Mum. 53 of 1956 GBBSD
and under the Mumbai Public Trust Act No. F 492 (B)
(Established 1941)

☎ 2407 01 26
2404 56 85
2404 56 98

Plot 6--A, Sion (West).
Mumbai - 400 022.

Date 26/2/2020

Volunteering Certificate

It Certifies that Miss SANIKA NAIK has fully completed the volunteer service at our event Mahila Udyogika on 4th, 5th and 6th January 2020 . They helped out our Sisters or Bhaginis to use their Smartphones efficiently .



President

Sion Bhagini Samaj

Letter of Experience


Sister Library
06 Xavier Apartment,
John the Baptist road,
Bandra West, Mumbai,
Maharashtra 400050

To whom it may concern,

This letter is to verify the employment of Swati Packirisamy Pillai who worked for Sister Library from 5th December 2019 to 5th January 2020.

As a volunteer her duties were cataloguing books and to help with events.

Sincerely,



Aqiu Thami

Sister Library

। हे स्त्रीशक्ति, तव नाम समाजोन्नति ।

SION BHAGINI SAMAJ

Registered Under Societies Registration Act No. Mum. 53 of 1956 GBBSD
and under the Mumbai Public Trust Act No. F 492 (B)
(Established 1941)

☎ 2407 01 26
2404 56 85
2404 56 98

Plot 6--A, Sion (West).
Mumbai - 400 022.

Date 26/2/2020

Volunteering Certificate

It Certifies that Miss UMA PRABHU has fully completed the volunteer service at our event Mahila Udyogika on 4th, 5th and 6th January 2020 . They helped out our Sisters or Bhaginis to use their Smartphones efficiently .



President
Sion Bhagini Samaj



SRI SATHYA SAI SEVA SAMITHI

'SAI PREM'
PLOT 13 A, SECTOR 10A, VASHI,
NAVI MUMBAI 400 703. TEL: 780 1867

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Ref No. _____

Date : _____

To Whom It May Concern,

This is to certify that Rashmika Kumar has organised and conducted a workshop at Sai Prem Institute on the date 8th December, 2019. The workshop was conducted in 2 sessions.

Rashmika Kumar was sincere, dedicated and devoted to all the tasks entrusted to her and has helped in spreading awareness on gender issues.

We wish her the best in all that she does and wish that she stays in touch with Sai Prem Institute.

Yours sincerely,

Priya Rajwade
Saideep co-ordinator
Saiprem



To,
Whomsoever it may concern

30th November 2019

Subject: Internship letter of experience

URJA Trust, is a catalyst organization that facilitates homeless young women in their journey to access fundamental rights, and focuses on their holistic development, enabling them to make informed choices and live their lives with dignity.

Reema Jose, in Third Year BA, from SIES Autonomous College of Arts Science And Commerce, interned with URJA Trust from 28th October till 25th November 2019.

As part of her assigned tasks she worked on the advocacy project's Standard Operating Procedure (SOP) content, along with research and content writing for the 16 Day Campaign on Elimination of Violence Against Women. She also did miscellaneous administrative work, such as drafting letters. She took part in outreach, where team members go to Dadar station to see if there is any homeless young women in need of shelter. She also observed a case work to understand the interventions better.

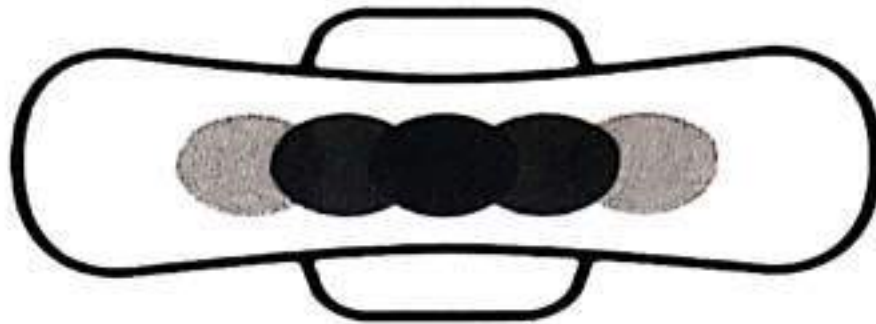
Reema is a dedicated and hardworking individual, who along with completing her tasks on time also got along with everyone at the organization very well.

We at URJA Trust appreciate her work wish her the best in her endeavors.

Warm Wishes,

Charu Chaturvedi
Resource Programme Manager
URJA Trust





PADDLING

FOUNDATION

To whomsoever it may concern,

The Paddling team conducted a research campaign over the weekend on the 2nd of February, 2020, in a village called 'Bot.' The purpose of the campaign was to better understand the kind of help required in the areas covered in the research and how we could tailor our approach based on that information. Ms. Shanotra Shrivastava played an important role and helped meet the aim of the research along with the team very effectively.

She productively took part in the campaign and brainstormed on the conditions of the areas with respect to menstrual hygiene, and what measures could be taken to eradicate the current issues with respect to the same. Our approach will take these things into consideration to chalk out strategies to help the woman in need of it.

We, at Paddling Foundation, appreciate and are immensely grateful to the volunteers for their participation in the groundwork for our research campaign.

Regards,

A handwritten signature in black ink that reads "Dipika Daga". The signature is written in a cursive style and is positioned above a horizontal line that extends to the right.

Dipika Daga.

Founder, Paddling Foundation.



S.H.E.D.

SOCIETY FOR HUMAN AND ENVIRONMENTAL DEVELOPMENT

(Registered Under Society Registration Act. XXI of 1960 and Mumbai Public Trust Act. 1950)

DHARAVI COMMUNITY WELFARE CENTRE

278

<10

Founder
BEGUM BILKEES LATIF

President
MANECK DAVAR

Chief Executive
MR. RAJENDRA TAWDE

Ref. _____

Date ^{1st} Feb, 2020

The Principal,
S.I.E.S. College of Commerce and economics
T.V. Chidambaram Marg,
Sion (East)
Mumbai


Dear Sir / Madam,

This is to certify that **Ms. Tejaswini Yelgulwar** has put in 12 hours of Voluntary service at our **SHED** organization during the period 3rd January 2020 to 8th January 2020. Her conduct during the period was satisfactory.

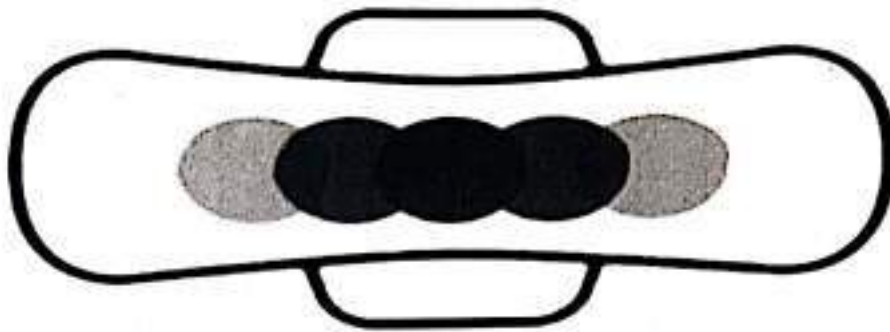
M. Rashid
Mariam Rashid
Dy.CEO
SHED



Transit Camp, SHED Complex, Near Urdu Municipal School, Behind Dharavi Police Station, Mumbai-400 017.
Tel : 24090483 • E-mail : orgshed@yahoo.co.in • sheddharavi@gmail.com

Follow on : 

Founded by Begum Bilkees Latif in 1983 with a vision to empower the underprivileged and vulnerable sections of society, especially women and girls, through activities promoting self-reliance and human dignity, with a focus on value and ethics.



PADDLING

FOUNDATION

To whomsoever it may concern,

The Paddling team conducted a research campaign over the weekend on the 2nd of February, 2020, in a village called 'Bot.' The purpose of the campaign was to better understand the kind of help required in the areas covered in the research and how we could tailor our approach based on that information. Ms. Rashi Patel played an important role and helped meet the aim of the research along with the team very effectively.

She productively took part in the campaign and brainstormed on the conditions of the areas with respect to menstrual hygiene, and what measures could be taken to eradicate the current issues with respect to the same. Our approach will take these things into consideration to chalk out strategies to help the woman in need of it.

We, at Paddling Foundation, appreciate and are immensely grateful to the volunteers for their participation in the groundwork for our research campaign.

Regards,

Dipika Daga.

Founder, Paddling Foundation.



3rd February 2020

To,
Whomsoever it may concern

Internship letter of experience

URJA Trust, is a catalyst organization that facilitates homeless young women in their journey to access fundamental rights, and focuses on their holistic development, enabling them to make informed choices and live their lives with dignity.

Lokeshwari H. Naidu, completing her Bachelors final year, from SIES Autonomous College of Arts Science And Commerce, interned with URJA Trust from 3rd January till 3rd February 2020.

As part of her assigned tasks she worked on documentation and data work along with supporting the livelihood team by doing research work for livelihood and vocational training opportunities. She also participated in organisation activities/processes such as the 'Drum Circle' and outreach, where the team members go to the railway station to see if there are homeless young women in need of shelter.

Lokeshwari is a dedicated and hardworking individual. We at URJA Trust appreciate her work wish her the best in her endeavors.

Arpita Ray
Administrative In-charge
URJA Trust





SIES

**College of Arts,
Science &
Commerce**

**RISE WITH EDUCATION
Sion (West), Mumbai – 400022.
(Autonomous)**

Faculty: Science

Program: M.Sc.

Subject: BIOTECHNOLOGY

Academic Year: 2019 – 2020

M.Sc Part II

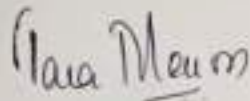
**Credit Based Semester and Grading Syllabi approved
by Board of Studies in Biotechnology to be brought into
effect from June 2019.**

COURSE CODE	PRACTICALS
SIPSBTP45	Dissertation
SIPSBTP46 (PRACTICALS BASED ON SIPSBT41, SIPSBT42, SIPSBT43 and SIPSBT44)	<ol style="list-style-type: none"> 1. Bioremediation – isolation of metal tolerant organism and study their growth characteristics and pattern 2. Composting – physical and chemical parameters 3. GMO validation (kit based / demo) 4. Nanoparticles – synthesis by chemical and biological methods; Spectroscopic analysis 5. Analysis of a Clinical trial 6. Candling, Observing chick embryo – stages of development; prepared slides / preserved specimens 7. Developmental Biology – visit to a laboratory / video lectures for latest developments in the field (to be documented)

CERTIFICATE

This is to certify that **Tejashree Phepade**, student of MSc. Part II Biotechnology, SIES College, has satisfactorily completed the dissertation work entitled, "**Effect of fusaric acid on the physiology of vegetative cells of Chlamydomonas reinhardtii**" for the partial fulfillment of the Master's degree in Biotechnology as prescribed by the University of Mumbai during the academic year 2019-2020.

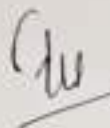
This dissertation represents an independent work carried out by her.



Dr. Tara Menon
Co-ordinator
Department of Biotechnology



Dr. Uma Shankar
Principal


23/9/2020

Signature of examiner



मुंबि - पऊवि मौलिक विज्ञान प्रकष केंद्र
UM-DAE Centre for Excellence in Basic Sciences
 Registered under the Society Registration Act, 1960

CERTIFICATE

This is to certify that Ms. **Tejashree Shivram Phepade**, student of M.Sc. (Biotechnology), SIES College of Arts, Science & Commerce (Autonomous) has completed a Research Project at the biological **Jacinta S. D'Souza** laboratory, School of Biological Sciences, **UM-DAE Center for Excellence in Basic Sciences, Kalina, Santacruz (East)** during the academic year 2019-2020. She has completed the dissertation work entitled "**EFFECT OF FUSARIC ACID ON THE PHYSIOLOGY OF VEGETATIVE CELLS OF CHLAMYDOMONAS REINHARDTII**" for the partial fulfillment of the Master's of Science (Biotechnology) Degree. This carefully written report represents the experiments and literature related to the same carried out by her during the period from 15th October 2019 to 15th March 2020.

Guide:



Prof. **Jacinta S. D'Souza**, Professor
 School of Biological Sciences
 UM-DAE Center for Excellence
 in Basic Sciences

Co-Guide:

Dr. **Siddhesh B. Ghag**, DST-INSPIRE Faculty
 School of Biological Sciences
 UM-DAE Center for Excellence
 in Basic Sciences

Chairperson

School of Biological Sciences
 University of Mumbai-Department of Atomic Energy
CENTRE FOR EXCELLENCE IN BASIC SCIENCES
 CEBS Building, University of Mumbai
 Vidyanagari Campus, Santacruz (E), Mumbai-400098

पता : सीईबीएस नालंदा बिल्डिंग, मुंबई विश्वविद्यालय, विद्यानगरी परिसर, सांताक्रुझ (पु), मुंबई - 400 098.
 Address: CEBS Nalanda Building, University of Mumbai, Vidyanagari Campus, Santacruz (E), Mumbai 400 098.
 दूरभाष/Phone : +91 22 2652 4983, फॅक्स / Fax : +91 22 2652 4982 Web.: www.cbs.ac.in

Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Fatema Tyerwala

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Mr. Ganesh Bommeri

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Suvidha Shetty

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Krishnaveni Hariharan

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Jaiba Malpekar

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Aishwarya Moily

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Mohaddesa Shaikh

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



Expert Nutraceutical Advocacy Council

Nutraceutical, Health & Dietary Supplements

Certificate of Appreciation

This is to Certify that

Ms. Pranali Mahadik

*has successfully completed 2 Months Internship Program
with Expert Nutraceutical Advocacy Council (ENAC)*

in the Year 2019



Sandeep Gupta,
Chief Founder & Director
(ENAC)



SIES College of Arts, Science and Commerce (Autonomous)
Department of Biochemistry

List of MSc part II students with their dissertation topics
2019-20

(MSc Biochemistry Part II Practical Paper 1; SIPSBCHP41)

1. Aishwarya Vijayan 'Study of bacillus coagulans as a probiotic'.
2. Ann Sharon 'Study of phytochemistry and Pharmacological properties of moringa Oleifera'.
3. Jothimonisha Nadar 'Study of biological and pharmacological effects of Piper betle linn'.
4. Swati Jaiswar 'Effect of Tagetes erecta flower extract against methotrexate-induced toxicity using Zebra fish as a model system'-
5. Soumya Subramanian 'Attenuation of methotrexate-induced toxicity by microwave-assisted extract of tagetes erecta using Danio reiro model system'.
6. Rachael Thomas Varghese: 'Screening of soyabean mutants for improved seed quality' (BARC, Mumbai)
7. Sayyeda Anam: Expression and Purification of DYRK2 Kinase Protein



Dr. Deepali Kothekar
Head, Department of Biochemistry

STUDY OF BACILLUS COAGULANS AS A PROBIOTIC

A THESIS SUBMITTED TO

**SIES COLLEGE OF ARTS, SCIENCE & COMMERCE
(AUTONOMOUS)**

AFFILIATED TO UNIVERSITY OF MUMBAI

FOR THE PARTIAL FULFILLMENT OF

THE DEGREE OF

MASTER OF SCIENCE (M.Sc.)

IN BIOCHEMISTRY

SUBMITTED BY

Miss. AISHWARYA VIJAYAN

UNDER THE GUIDANCE OF

Dr. DEEPALI KOTHEKAR

HEAD, BIOCHEMISTRY DEPARTMENT

SIES COLLEGE OF ARTS SCIENCE & COMMERCE,

SION (W), MUMBAI, 400022

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022



Certificate

This is to certify that Ms. Aishwarya Vijayan student of MSc (Semester IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work “**Study of *Bacillus coagulans* as a probiotic**” for the partial fulfillment of the Masters degree in Science in the subject of Biochemistry, during the academic year 2019-2020.

Deepali Kothekar

Date: 9th May 2020

Place: Mumbai

Dr. Deepali Kothekar

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai – 400 022

**STUDY OF PHYTOCHEMISTRY AND
PHARMACOLOGICAL PROPERTIES OF MORINGA
OLEIFERA**

A THESIS SUBMITTED TO

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

AFFILIATED TO

UNIVERSITY OF MUMBAI

FOR THE PARTIAL FULFILLMENT OF

MASTER OF SCIENCE (M.Sc.) DEGREE

IN

BIOCHEMISTRY

SUBMITTED BY

ANN SHARON

2019-2020

UNDER THE GUIDANCE OF

Dr. DEEPALI K. KOTHEKAR

(Head of the Department)

DEPARTMENT OF BIOCHEMISTRY

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

SION (W), MUMBAI, 400022

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022



Certificate

This is to certify that Ms. ANN SHARON student of MSc (Semester IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work “**Study Of Phytochemistry and Pharmacological Properties of Moringa Oleifera**” for the partial fulfillment of the Master degree in Science in the subject of Biochemistry, during the academic year 2019-2020.



Date: 9th May 2020

Place: MUMBAI

Dr. Deepali Kotheekar

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai – 400 022

**STUDY OF BIOLOGICAL AND PHARMACOLOGICAL
EFFECTS OF *Piper betle* Linn.**

**Dissertation Report Submitted For the Partial fulfillment of the Degree Master of
Science in Biochemistry (By Papers) By**

Miss Nadar Jothi Monisha Rajadurai

Department of Biochemistry

SIES College of Arts, Science & Commerce

Sion (West) Mumbai- 400022

Under the Guidance of

Dr. Deepali Kotheekar

Department of Biochemistry

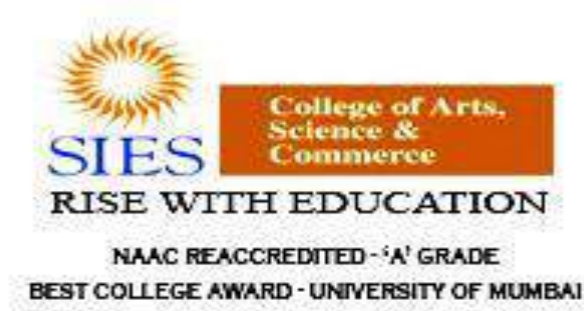
SIES College of Arts, Science & Commerce

Sion (West) Mumbai-400022

DECLARATION

I hereby declare that the dissertation titled '**STUDY OF BIOLOGICAL AND PHARMACOLOGICAL EFFECTS OF *Piper betle Linn***' is being submitted as a partial fulfillment of the requirements for the degree of Master of Science (MSc) in Biochemistry & is not substantially the same as one which has already been submitted for a degree or any other academic qualification in any other university institute or examination body.

Nadar JothiMonisha Rajadurai



CERTIFICATE

This is to certify that **Miss Nadar JothiMonisha Rajadurai** has successfully completed dissertation '**STUDY OF BIOLOGICAL AND PHARMACOLOGICAL EFFECTS OF *Piper betle Linn***' for partial fulfillment of her M.Sc. Degree (by paper) in Biochemistry., under the guidance of Dr. Deepali Kothekar, Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West) in the year 2019-2020.

A handwritten signature in black ink, appearing to read 'Kothekar'.

Dr. Deepali Kothekar
Head, Department of Biochemistry
SIES College of Arts, Science & Commerce
Sion(West), Mumbai- 400022

Date: 9th May 2020
Place: Mumbai

SCREENING OF SOYBEAN (*Glycine max*)
MUTANTS FOR IMPROVED SEED QUALITY

A THESIS SUBMITTED TO

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE
(AUTONOMOUS)

AFFILIATED TO

UNIVERSITY OF MUMBAI

FOR THE PARTIAL FULFILLMENT OF
MASTER OF SCIENCE (M.Sc) DEGREE

IN

BIOCHEMISTRY

SUBMITTED BY

Miss. VARGHESE RACHAEL THOMAS

2019 - 2020

UNDER THE GUIDANCE OF

Dr. SUDHIR KUMAR GUPTA

SCIENTIFIC OFFICER- F

NUCLEAR AGRICULTURE & BIOTECHNOLOGY DIVISION,
BHABHA ATOMIC RESEARCH CENTRE,

TROMBAY, MUMBAI-400085

MAY 2019 – JULY 2019



Government of India
BHABHA ATOMIC RESEARCH CENTRE
NUCLEAR AGRICULTURE & BIOTECHNOLOGY DIVISION
TROMBAY, MUMBAI- 400 085, INDIA

Ref: BARC/NA&BTD/OPA-14487

Date: 21 January, 2020

CERTIFICATE

This is to certify that Ms. Varghese Rachael Thomas, student of M.Sc. (Biochemistry), SIES College of Arts, Science & Commerce (Autonomous), Mumbai has carried out the research project work entitled "Screening of soybean mutants for improved seed quality" from 1st May 2019 to 31st July 2019.

This project was conceptualized and executed at the Nuclear Agriculture and Biotechnology Division, BARC, Mumbai. No part of this work should be published in any form, in any national/international journal and should not be presented as paper/poster in any symposia or conference by the trainee and her parent institute/college.

Ms. Rachael has demonstrated good work ethics and interpersonal skills. She is very hardworking, sincere and has good research aptitude. We wish her all the success in her career.


21/1/2020

(Dr. J. G. Manjaya)
Scientific Officer-G
Group leader
Soybean Improvement Research Group


21/01/2020
(Dr. S. K. Gupta)
Scientific Officer-F
NA&BTD

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022



Certificate

This is to certify that **Ms. Varghese Rachael Thomas** student of MSc (Semester IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022 has submitted the dissertation work “**Screening of soybean (*Glycine max*) mutants for improved seed quality**”, for the partial fulfillment of the Master’s degree in the subject of Biochemistry, during the academic year 2019-2020.

A handwritten signature in blue ink that reads 'Dr. Kothekar'.

Date: 9th May 2020

Place: Mumbai

Dr. Deepali Kothekar

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai – 400 022

Effect of *Tagetes erecta* flower extract against
methotrexate-induced toxicity using Zebra fish as a model
system

A THESIS SUBMITTED TO

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE

(AUTONOMOUS)

AFFILIATED TO

UNIVERSITY OF MUMBAI

FOR THE PARTIAL FULFILMENT OF

**MASTER OF SCIENCE (M.Sc.) DEGREE
IN
BIOCHEMISTRY**

SUBMITTED BY

MS. SWATI HANSRAJ JAISWAR

Year [2019-2020]

UNDER THE GUIDANCE OF

DR. DEEPALI K. KOTHEKAR

(HEAD, OF DEPARTMENT OF BIOCHEMISTRY)

DEPARTMENT OF BIOCHEMISTRY

SIES COLLEGE ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

SION (WEST), MUMBAI- 400022

**SIES College of Arts, Science and Commerce (AUTONOMOUS)
Sion (West), Mumbai- 400022**



CERTIFICATE

This is to certify that Ms. Swati Hansraj Jaiswar, student of M.Sc. (Semester- IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai- 400022, has successfully completed the dissertation titled “Effect of *Tagetes erecta* flower extract against methotrexate-induced toxicity using Zebra fish as a model system” ,for the partial fulfillment of the Master of Science degree in Science in the subject of Biochemistry, during the academic year 2019-2020.

Kothenkar

Dr. Deepali Kothenkar
Head, Department of Biochemistry
SIES College of Arts, science and Commerce
Sion (West), Mumbai- 400022

Date: 9th May 2020
Place: Mumbai

**“ATTENUATION OF METHOTREXATE-INDUCED TOXICITY BY
MICROWAVE ASSISTED EXTRACT OF *Tagetes erecta* USING
Danio reiro MODEL SYSTEM.”**

A THESIS SUBMITTED TO

**SIES COLLEGE OF ARTS, SCIENCE & COMMERCE
(AUTONOMOUS)**

AFFILIATED TO

UNIVERSITY OF MUMBAI

FOR THE PARTIAL FULFILLMENT OF

MASTERS OF SCIENCE (M.Sc.) DEGREE

IN

BIOCHEMISTRY

SUBMITTED BY

MS. SOUMYA SUBRAMANIAM

UNDER THE GUIDANCE OF

Dr. DEEPALI K. KOTHEKAR

(Head of the Department)

DEPARTMENT OF BIOCHEMISTRY

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

SION (W), MUMBAI, 400022

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022



Certificate

This is to certify that Ms Soumya Subramaniam student of MSc (Semester IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work “**Attenuation of methotrexate-induced toxicity by microwave assisted extract of *Tagetes erecta* using *Danio reiro* model system**” for the partial fulfilment of the Masters degree in Science in the subject of Biochemistry, during the academic year 2019-2020.



Date: 9th May 2020

Place: Mumbai

Dr. Deepali Kothekar

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai – 400 022

PROJECT

**EXPRESSION AND PURIFICATION OF DYRK2
KINASE PROTEIN**

Submitted by
SAYYEDA ANAM SAYED ZULFIQAR ALI

DEPARTMENT OF BIOCHEMISTRY
SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JAIN SOCIETY, SIES LANE, SION WEST, MUMBAI- 400022



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Under the guidance of

DR. AMIT DAS

PROTEIN CRYSTALLOGRAPHY SECTION,
RADIATION BIOLOGY AND HEALTH SCIENCE DIVISION
BHABHA ATOMIC RESEARCH CENTRE
TROMBAY, MUMBAI – 400085



MAY-JULY, 2019



भाभा परमाणु अनुसंधान केंद्र
BHABHA ATOMIC RESEARCH CENTRE

Certificate

This is to certify that Ms. Sayyeda Anam Sayed Zulfiqar Ali, a student from Department of Biochemistry, SIES College of Arts, Science and Commerce, Sion, Mumbai has undergone research training under me on the project entitled "*Expression and Purification of DYRK2 Kinase Protein*" in Protein Crystallography Section, Radiation Biology and Health Sciences Division, Bhabha Atomic Research Centre, Mumbai from 1st May, 2019 to 31st July, 2019.

Dr. Amit Das

Protein Crystallography Section
Radiation Biology and Health Sciences Division
B.A.R.C., Trombay, Mumbai - 400085

31st July, 2019



वैज्ञानिक अधिकारी / Scientific Officer F

केंद्राध्यक्ष, भाभा परमाणु अनुसंधान केंद्र

Radiation Biology & Health Sciences Division

भाभा परमाणु अनुसंधान केंद्र

वैज्ञानिक अधिकारी (अनुसंधान) / Scientific Officer (Research)

भाभा परमाणु अनुसंधान केंद्र, ट्रोम्बाय, मुंबई - ४०००८५

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022



Certificate

This is to certify that Ms. Sayyeda Anam Sayed Zulfiqar Ali student of MSc (Semester IV, Biochemistry), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work “**Expression and Purification and DYRK2 Kinase Protein**” for the partial fulfillment of the Masters degree in Science in the subject of Biochemistry, during the academic year 2019-2020.



Date: 9th May 2020

Place: Mumbai

Dr. Deepali Kothekar

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai – 400 022

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

ACADEMIC YEAR 2018-19		
ROLL NO.	NAME OF THE STUDENT	DISSERTATION TITLE
M1819071	GAJENGI RUPA SRINIVAS RAMADEVI	“IN VITRO CALLUS INDUCTION IN <i>Bacopa monneiri</i> (BRAHMI): A MEDICINALLY IMPORTANT PLANT”
M1819072	KULKARNI REWATI VISHVAS VARSHA	“IN VITRO CALLUS INDUCTION FROM SEEDS IN CARROT (<i>Daucus carota</i> L.)”
M1819073	RAMAKRISHNAN BHAKTI RAMESH VIJAYA	“MICROPROPAGATION OF <i>Tylophora indica</i> (Burm f.) Merr.”
M1819074	SHAMA PARVEEN AMJAD ALI SAYEEDA KHATOON	“CYTOTOXIC EFFECTS OF SELECTED ANTIBIOTICS ON THE ROOT TIPS OF <i>Allium cepa</i> ”
M1819075	FITWALLA AZZAH ABDUL REHMAN AMTUL MUGHANI	“STUDY OF ECOTYPES OF <i>Ixora coccinea</i> , <i>Polyalthia longifolia</i> AND <i>Bougainvillea spectabilis</i> FROM MUMBAI CITY”
M1819076	MENDONSA LEANCE MALVIN ANNAM	“COMPARATIVE ANALYSIS OF FIVE FRESHWATER LAKES IN AND AROUND MUMBAI”
M1819077	MISAL AISHWARYA INDRANIL SHOBHA	“PHYTOREMEDIATION OF INDUSTRIAL EFFLUENT USING MICROALGAE <i>Chlorella vulgaris</i> ”
M1819078	PATIL ABHISHEK CHANDRAKANT APARNA	

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

M1819079	SHETTY BHAVNA SHEKAR YESHWANI	“COMPARATIVE STUDY OF MANGROVE SPECIES - <i>Avicennia marina</i> AND <i>Salvadora persica</i> IN MUMBAI AND NAVI MUMBAI”
ACADEMIC YEAR 2019-20		
ROLL NO.	NAME OF THE STUDENT	DISSERTATION TITLE
M192052	B PAVITRA BALASUBRAMANI MUTHURAMAKRI SHNAVENI	“ANTIMICROBIAL ACTIVITIES OF CALLUS, SEED AND LEAF EXTRACTS OF FENUGREEK (<i>Trigonella foenum-graecum</i> L.)”
M192053	KHAN NAZMEEN MOHD ANEES SHAHATUNNISA	“CYTOTOXIC EFFECTS OF SELECTED PLANT GROWTH REGULATORS ON THE ROOT TIPS OF <i>Allium cepa</i> ”
M192054	MAHANTY PRIYANKA DANARDAN LAXMI	“MICROPROPAGATION OF THE WIRE WEED <i>Sida acuta</i> Burman. f.”
M192055	NAIR SUMITHA GOPALAKRISHNA N REMA	“EVALUATION OF ANTIBACTERIAL, ANTIOXIDANT AND SEED GERMINATION POTENTIAL OF BIOSYNTHEZIZED SILVER NANOPARTICLES FROM <i>Ailanthus excelsa</i> Roxb.”
M192056	ZAGADE SEJAL SUNIL SNEHAL	“IN-VITRO PROPAGATION OF NODAL EXPLANT OF <i>Vitex negundo</i> (nirgundi)”
M192057	ASHWIN DINESAN KOMALAVALLY	“EFFECTS OF URBANIZATION ON MANGROVE SOIL IN NAVI MUMBAI”
M192058	GUPTA RUCHITA RAJESH CHANDA	“COMPARATIVE ANALYSIS OF WATER QUALITY IN FIVE COASTAL ZONES OF ARABIAN SEA IN THE VICINITY OF MUMBAI”

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

M192059	KIRTHIKA SIVASUBRAMANI AN SELVAPARVATHI	“COMPARATIVE STUDY OF ROADSIDE AVENUE TREE AS BIOINDICATORS OF AIR POLLUTION IN AND AROUND MUMBAI”
M192060	MORE JAYESH DILIP SUPRIYA	“COMPARATIVE STUDY OF THREE LAKES IN AND AROUND THANE”
ACADEMIC YEAR 2020-21		
ROLL NO.	NAME OF THE STUDENT	DISSERTATION TITLE
SMBOT202107 5	PANDIT ANKITA KUMARI JITENDRA AASHADEVI	“BIOSYNTHESIS AND CHARACTERIZATION OF COPPER NANOPARTICLES FROM <i>Embllica officinalis</i> FRUIT EXTRACTS AND THEIR ANTIBACTERIAL ACTIVITY”
SMBOT202107 6	NADAR KISHOR KUMARESAN SUNDARAVALLI	“BIO-ACCUMULATION OF HEAVY METALS IN MANGROVE SPECIES <i>Avicennia marina</i> : A REVIEW”
SMBOT202107 7	MORE NEHA VISHWANATH UJWALA	“PRODUCTION AND ANALYSIS OF FLORAL WINE FROM MOGRA (<i>Jasminum sambac</i>)”
SMBOT202107 8	PILLAI SRUTHI PADMAKUMAR SANDHYA	“TO OBSERVE THE INFECTION PROCESS BY NODULE BACTERIA IN <i>Trigonella foenum-graecum</i> L. (FENUGREEK)”
SMBOT202107 9	DOIFODE PRATIKSHA HANUMANT KALPANA	“EVALUATION OF ANTIMUTAGENIC ACTIVITY OF <i>Tinospora cordifolia</i> LEAF EXTRACT USING <i>Allium cepa</i> CHROMOSOME ASSAY”
SMBOT202108	PATEL	“PHYTOREMEDIATION PROSPECTS OF

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

0	SHIVANGINI RASIKBHAI DHAKALUBEN	PROPARGITE USING ORNAMENTAL PLANTS: A REVIEW”
SMBOT202108 1	MOHITE SHWETALI DEEPAK ANKITA	“COMPARATIVE STUDY OF PLANT SPECIES FROM POLLUTED AND NON- POLLUTED AREA WITH RESPECT TO MORPHOLOGY AND SECONDARY METABOLITES: A REVIEW”
SMBOT202108 2	DSOUZA VENISHA VINCENT JOSEPHINE	“COMPARATIVE ECOLOGICAL ANALYSIS OF SOIL SAMPLES OF PROTECTED AREAS AND INDUSTRIAL AREAS”
ACADEMIC YEAR 2021-22		
ROLL NO.	NAME OF THE STUDENT	DISSERTATION TITLE
SMBOT212200 1	AALIYA BEGUM SHAIKH NISHAT ALAM	“MULTIPLE SHOOT INDUCTION IN TOOTHACHE PLANT, <i>Acmella oleracea</i> L. (SYN. <i>Spilanthes acmella</i> var. <i>oleracea</i>)”
SMBOT212200 2	SHUKLA MEENAKSHI RAKESH	“COMPARATIVE PHYTOCHEMICAL AND NUTRITIONAL ANALYSIS OF MICROGREENS GROWN IN DIFFERENT MEDIA”
SMBOT212200 3	CHULIPARAMBIL MEGHNA SUNIL	“SOIL ANALYSIS UNDER <i>Eucalyptus globulus</i> TREES NEAR WAGLE INDUSTRIAL AREA”
SMBOT212200 4	MONA DHARMARAJ	“STUDY OF ALLELOPATHIC EFFECT OF WEEDS ON WHEAT CROP”
SMBOT212200 5	ANSARI NABILA RIZWANUL HAQ	“EFFECT OF SALINITY STRESS ON THE GROWTH OF PLANT <i>Catharanthus roseus</i> (L.) G. Don”
SMBOT212200 8	NADAR RANJITHAM	“STUDY ON EFFECT OF AIR POLLUTION ON PLANTS; COMPARING FROM POLLUTED AND

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

	SELVARAJ	NON-POLLUTED SITES”
SMBOT2122009	DANI RUCHIKA GANESH MANJULA	“IN VITRO STUDIES AND MULTIPLE SHOOTLET INDUCTION IN <i>Cyathocline purpurea</i> (Buch.- Ham. Ex. D.Don) Kuntze”
SMBOT2122010	SANDRA BALAKRISHNAN	“ANALYSIS AND EVALUATION OF BIOENZYMES DERIVED FROM FRUIT PEELS OF LEMON, ORANGE AND PINEAPPLE”
SMBOT2122011	SHAIKH AFIFA MOHAMMED ASAD	“ISOLATION OF ENDOPHYTIC FUNGI FROM <i>Polyalthia longifolia</i> AND STUDY OF ITS SECONDARY METABOLITES”
SMBOT2122012	AZIZI UMMUL FAZAL	“ISOLATION AND CULTURING VARIOUS ALGAL SPECIES FOUND IN POWAI LAKE AND ANALYSING ITS VARIOUS PARAMETERS”
ACADEMIC YEAR 2022-23		
ROLL NO.	NAME OF THE STUDENT	DISSERTATION TITLE
SMBOT2223001	ANJALI YOGENDAR CHAURASIYA	“COMPARATIVE ANALYSIS OF ESSENTIAL OIL AND ANTIBACTERIAL ACTIVITY OF IN-VIVO AND IN-VITRO PLANT OF <i>Eclipta alba</i> (L.) Hassk”
SMBOT2223002	ARCHANA RAMSINGAR PRAJAPATI	“PHYTOREMEDIATION POTENTIAL OF <i>Catharanthus roseus</i> AGAINST PROPARGITE”
SMBOT2223003	CHOUDHARY ZUBER AKBAR	“AQUEOUS <i>Aspergillus</i> EXTRACT MEDIATED ELICITATION OF WEDELOLACTONE FROM THE CALLUS CULTURE OF <i>Sphagneticola trilobata</i> ”
SMBOT222300	DEEPA PRAKASH	“EVALUATION OF TOXICITY EFFECT OF

**SIES COLLEGE OF ARTS SCIENCE & COMMERCE (EMPOWERED AUTONOMOUS),
SION (W), MUMBAI – 400022**

DEPARTMENT OF BOTANY

MSc PART II 2018-2023

LIST OF DISSERTATION TITLE

4	GOSWAMI	ALUMINIUM ON ROOT GROWTH AND MITOTIC INDEX OF <i>Allium cepa</i> (ONION) AND <i>Allium sativum</i> (GARLIC)”
SMBOT222300 5	JESSNA SHAJI	“EVALUATION OF AIR POLLUTION TOLERANCE INDEX AND ANTICIPATED PERFORMANCE INDEX OF PLANTS FROM INDUSTRIAL SITE, THANE(W)
SMBOT222300 6	NARGIS RAEES KHAN	“ALLELOPATHIC EFFECTS OF WEEDS ON <i>Amaranthus cruentus</i> ”
SMBOT222300 7	PRABHANJAN JITENDRA LIMAYE	“STANDARDIZATION OF COST-EFFECTIVE PROTOCOL FOR MICROPROPAGATION OF <i>Centella asiatica</i> Linn. AND <i>Bacopa monnieri</i> Linn.”
SMBOT222300 9	PRIYANKA NARENDRA PRAJAPATI	“COMPREHENSIVE ECOLOGICAL STUDY OF SAMPLES FROM ULHAS RIVER, DOMBIVLI”
SMBOT222301 0	RAKSHA MANJU CHANDAN	“EVALUATION OF ANTIMUTAGENIC ACTIVITY OF <i>Coriandrum sativum</i> L. USING <i>Allium cepa</i> CHROMOSOME ASSAY”
SMBOT2223011	SHWETA MADHUKAR WAYDANDE	“STUDY OF GAMMA IRRADIATION ON <i>Phaseolus vulgaris</i> L.”

Course Director
Dr. M. Phadke
M.Sc. (Micro), Ph.D



SIES

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**Institute of Medical
and Laboratory
Technology**

DATE: 2/11/2020

TO WHOM SO EVER IT MAY CONCERN

This is to inform you that the following ADMLT students have successfully completed their online hospital internship program for the academic year 2019-2020 (Covid Batch). We commend these students for their dedication and hard work throughout the program. They have demonstrated a strong understanding of healthcare practices and have gained valuable experience in a virtual hospital setting.



M. Phadke

DIRECTOR

SIES INSTITUTE OF MEDICAL AND LABORATORY TECHNOLOGY

Sion (West), Mumbai - 400 022.

Tel: 5574 4365 / 2407 2729 • Telefax : 2409 0516

www.siesimlt.net

LIST OF THE STUDENTS:2019-20

Roll number	Student Name
1	PRAJAPATI MONALI NARENDRA
2	BORA LALCHAND DURGARAM
3	BASHA RUBINA SADIQ
4	GAVIT INDU RAMESH
5	KHAN HASEENA KHATOON QAYYUM
6	YADAV AARTI SARNATH
7	BHARATI SHANKAR MUDNAL
8	ZENDE POOJA SURAJ
9	MUMBARKAR POOJA MUKUND
10	TIWARI KOMAL DILIP
11	DALVI POONAM TANAJI
12	KHAN NIHDAT REHMAT ALI
13	GAVIT AMIT VASANT
14	LAKKAKULA DIXITHA SAYANNA
15	GUPTA SUPRIYA RAMASHISH
16	CHOUGLE TASNEEM NISAR AHMED
17	GAVIT VARSHA SADASHIV
18	BARI RAHUL BHASKAR
19	LOKARE POOJA RAJARAM
20	YADAV MEENA DEEPAK
21	GAVALI MEGHANA LAXMAN
22	ANSARI ARIFA TASNEEM REHMATULLAH
23	SHIRSAT DHANASHREE RAVINDRANATH
24	SHAIKH RANEEM FATIMA ISHTEYAQ A
25	ZORE PANDURANG SANJAY
26	GAWADE AMRUTA SUBHASH
27	KHARAT ANURADHA ASHOK
28	CHAKNE ROHINI ASHOK
29	CHAUDHARI NITIN AMRUT
30	WAGHAMARE POOJA VIJAY
31	KARNE SUPRIYA LALASAHEB
32	GAVIT MINAKSHI DEVSING
33	BHOGALE KALPITA HEMANT
34	MADI SAMIR SANJAY
35	DHARPADE NIKITA BHARAT
36	GHAG RASHMI PRADIP
37	MISHRA NEHA VINAY KUMAR
38	SAYED FARHEEN IMAM
39	YADAV POOJA AMBIKA
40	SWETHA VENKADESH

M. Phadke

