



**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 projects / research projects / internships certificate/report  
for the Academic year 2022-2023 of the following departments.**

- **Bioanalytical Sciences**
- **Microbiology**
- **Botany**
- **Biotechnology**
- **Data Science**
- **Computer Science**
- **Biochemistry**
- **Food Technology and Nutrition**
- **Physics**
- **Zoology**
- **ADMLT**
- **BMS-CM**
- **Psychology**
- **Environmental Sciences**
- **BMS**
- **BAMMC**
- **Politics**

*This is to certify that the attached documents from page numbers 2 to 295 have been  
verified and found to be true.*

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

**Principal**



**College Seal**



International  
Independent Inspection  
&  
Testing Company

GEO-CHEM LABORATORIES PVT.LTD.  
Pragati, Adjacent to Crompton Greaves  
Kanjur Marg (E), Mumbai 400042  
Tel : +91 22 61916100 Fax : +91 22 61916101  
Email : laboratory@geochem.net.in

REF: GC/KNJ/HR/IL/26

DATE: 13<sup>th</sup> January, 2023

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Jyoti Nripa Kalita** was working with us from **1<sup>st</sup> November 2022 to 1<sup>st</sup> January 2023** as an **" Intern "** in **"Chemical Residue Analysis"** department.

During her internship with us, we found her sincere & keen in acquiring knowledge.

We wish her the very best for her future.

For, **GEO-CHEM LABORATORIES PVT.LTD.**

[Mr. Srikanth Iyer]

**Manager**

**HR & ADMIN Department**



**SITEC LABS LIMITED**  
(Formerly known as Sitec Labs Private Limited)  
Plot No.: Gen 40, TTC Industrial Area, MIDC,  
Behind Millennium Business Park,  
Near Nelco Bus Stop, Mahape,  
Navi Mumbai - 400 710  
Phone : (022) 2778 6200 • Fax : (022) 2778 6241



January 10<sup>th</sup>, 2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Shrutika Mokal of SIES College of Arts, Science & Commerce has undergone training in our Bio-Analytical Department at Sitec Labs Limited for the period from November 10, 2022 to January 10<sup>th</sup>, 2023.

During this training period, Ms. Shrutika Mokal was found very sincere, polite and hardworking and was eager to learn new technologies and advancements.

**For Sitec Labs Limited**

**Amit Jadhav**  
Human Resource



**Registered Office :** Plot No.: Gen 40, TTC Industrial Area, MIDC, Behind Millennium Business Park,  
Near Nelco Bus Stop, Mahape, Navi Mumbai - 400 710.

Phone : (022) 2778 6200 • Fax : (022) 2778 6241 • Email : support@siteclabs.com • Website : www.siteclabs.com

GST No : 27AABCD2739B1Z2 • CIN : NAACSSR-CYCLEB-4 2018-2023 1.3.3 Page 3 of 295



<p>महाराष्ट्र शासन सहायक संचालक अन्न व औषध प्रशासन प्रयोगशाला, सर्गे नं ३४१, वांदे कुर्ला संकुल, वांदे पूर्व मुंबई - ४०० ०५१</p>	 <p><b>FOOD AND DRUG ADMINISTRATION LABORATORY FDA MAHARASHTRA</b></p>	<p>GOVERNMENT OF MAHARASHTRA Assistant Director, Food &amp; Drugs Administration Laboratory, (M.S.) 341, Sarvra Karta Complex, Opp. TIBI, Bandra (East) Mumbai - 400 051 Tel. No. 022-26591990 Email: addfdl_mum@yahoo.co.in</p>
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जा.क्र.अवऔषध/ TC / 12 / 22 / 2

दि. 04/01/2023

## CERTIFICATE

This is to certify that, **Ms. POOJA UDAY MAHAJAN** Student of SIES College of Arts, Science & Commerce, Sion had been in this Laboratory from 4<sup>th</sup> November 2022 to 4<sup>th</sup> January 2023.

During this period she has observed and learned the procedures and process adopted for the Standardization of various Food & Drugs Articles. She was also involved in the analysis of above articles with the help of chemical and sophisticated analytical techniques.

This certificate is issued for academic purpose as per the request of trainee.



  
(Sangita R. Thakur)

Assistant Director,  
Food and Drug Administration Laboratory,  
Mumbai 51.

To,  
**Ms. Pooja Uday Mahajan .**

Copy to : SIES College of Arts, Science & Commerce, Sion.



<p>महाराष्ट्र शासन सहायक संचालक अन्न व औषध प्रशासन प्रयोगशाला, सर्की नं ३४१, वांदे कुली संकुल, वांदे पुर्व मुंबई - ४०० ०५१</p>	 <p>FOOD AND DRUG ADMINISTRATION LABORATORY TDA MAHARASHTRA</p>	<p>DEPARTMENT OF PHARMACEUTICALS Assistant Director, Food &amp; Drug Administration Laboratory, Sion, SI, Sion, Mumbai - 400 002, Dist. MH, Maharashtra 400 002 Tel. No. 22-24491999 Email: adphs_mumbai@phd.gov.in</p>
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वा.अ.अवऔषध/ TC / 12 / 22 / 2

श. ०१ / १० / १०२४

## CERTIFICATE

This is to certify that, **Ms. POOJA UDAY MAHAJAN** Student of SIES College of Arts, Science & Commerce, Sion had been in this Laboratory from 4<sup>th</sup> November 2022 to 4<sup>th</sup> January 2023.

During this period she has observed and learned the procedures and process adopted for the Standardization of various Food & Drugs Articles. She was also involved in the analysis of above articles with the help of chemical and sophisticated analytical techniques.

This certificate is issued for academic purpose as per the request of trainee.



  
(Sangita R. Thakur)


Assistant Director,  
Food and Drug Administration Laboratory,  
Mumbai 51.

To,  
Ms. Pooja Uday Mahajan .

Copy to : SIES College of Arts, Science & Commerce, Sion.





<p>महाराष्ट्र शासन सहायक संचालक अन्न व औषध प्रशासन प्रयोगशाळा, सर्व्हे नं ३४१, वांद्रे कुर्ला संकुल, वांद्रे पूर्व मुंबई - ४०० ०५१</p>	 <p>FOOD AND DRUG ADMINISTRATION LABORATORY FDA MAHARASHTRA</p>	<p>GOVERNMENT OF MAHARASHTRA Assistant Director, Food &amp; Drugs Administrations Laboratory, (M.S.) 341, Bandra Kurla Complex, Opp. RBI, Bandra (East) Mumbai - 400 051 Tel. No. 022- 26591990 Email: addcl_mum@yahoo.co.in</p>
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जा.क्र.अकजीप्र/TC 112/22/2

दि. 04/01/2023

## CERTIFICATE

This is to certify that, Ms. KHUSHI VIKAS CHAUHAN Student of SIES College of Arts, Science & Commerce, Sion had been in this Laboratory from 4<sup>th</sup> November 2022 to 4<sup>th</sup> January 2023.

During this period she has observed and learned the procedures and process adopted for the Standardization of various Food & Drugs Articles. She was also involved in the analysis of above articles with the help of chemical and sophisticated analytical techniques.

This certificate is issued for academic purpose as per the request of trainee.



  
(Sangita R. Thakur)  
Assistant Director,

Food and Drug Administration Laboratory,  
Mumbai 51.

To,  
Ms. Khushi Vikas Chauhan .

Copy to : SIES College of Arts, Science & Commerce, Sion.



**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Bharati More**, Mumbai has completed Internship from **27th October, 2022 to 10th January 2023** as an "Quality Assurance Intern" under the guidance of **Mrs. Manisha Kharade** - Department head. During her internship, she was found to be very enthusiastic, hardworking & showed keen interest in the work assigned.

We wish her all the best for future success.

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**Malina Karkarda**



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Head Office : 224, Unique Industrial Estate, Off V. S. Marg Prabhadevi, Mumbai - 400025	www.equinoxlab.com



Sri Chandrasekarendra Saraswati Vidyapeetham, Plot No. 1C, Sector-5, Nerul, Navi Mumbai-400 706. • Tel.: +91-22-6119 6427 / 35 / 36 / 39 / 40  
Email : sopadmin@sies.edu.in / soplab@sies.edu.in • Fax : +91-22-2771 8620 • Website : <https://siesiop.edu.in>

Jan. 2, 2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Nausheera Pathan**, student of SIES College of Arts, Science & Commerce, Mumbai has successfully completed **8 weeks** of internship from **Nov. 1, 2022 to Dec. 31, 2022** in the **Laboratory Division** of our organization.

She was highly motivated and hardworking. She also completed short projects during this period, worked sincerely and did a very good job.

We wish her great success in her future endeavours.

Prof. Prasad Balan Iyer  
Director

Services Offered : Testing / Q.C. & Specification Development • Packaging Audit & Packaging Development Projects • Educational Programmes (Full time / Part time / Distance learning) • Company / Product Oriented Training Programmes • Market Research & TEF Projects & Promotional Activities.

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Email : [soadmission@sies.edu.in](mailto:soadmission@sies.edu.in) / [soptlab@sies.edu.in](mailto:soptlab@sies.edu.in) • Fax : +91-22-2771 8620 • Website : <https://www.sies.edu.in>

Jan. 2, 2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Shruti Shivan**, student of SIES College of Arts, Science & Commerce, Mumbai has successfully completed **8 weeks** of internship from **Nov. 1, 2022 to Dec. 31, 2022** in the **Laboratory Division** of our organization.

She was highly motivated and hardworking. She also completed short projects during this period, worked sincerely and did a very good job.

We wish her great success in her future endeavours.

Prof. Prasad Balan Iyer

Director

**Services Offered** : Testing / Q.C. & Specification Development • Packaging Audit & Packaging Development Projects • Educational Programmes (Full time / Part time / Distance learning) • Company / Product Oriented Training Programmes • Market Research & TEF Projects & Promotional Activities.

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*ISO 9001 : 2015 QMS Certified to Provide Packaging Testing & Evaluation Services.*





# हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

महाराष्ट्र शासन अनुदानित सोसायटीज रजिस्ट्रेशन अंक १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था  
भारत सरकार, विज्ञान व प्रौद्योगिक मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

## Haffkine Institute for Training, Research & Testing

An Autonomous Grant in aid Institute of Govt. of Maharashtra Registered under Societies Registration Act 1860  
Recognised as "Scientific & Industrial Research Organisation" (SIRO) by Govt. of India, Ministry of Science & Technology.



### *Certificate*

This is to certify that Ms. Rohini Boywar has worked as a fulltime student at Department of Biochemistry, Haffkine Institute for Training, Research and Testing under the guidance of Dr. Usha Padmanabhan. Ms. Rohini had submitted the research proposal to University of Mumbai for the topic approval for the M.Sc. degree in the subject of applied biology. She was a regular student and has worked in the department of Biochemistry on the techniques like SDS gel electrophoresis, Tissue culture etc.

I wish her all the best for the future endeavours.

Dr. Usha Padmanabhan  
Head  
Dept. of Biochemistry  
Haffkine Institute

University of Mumbai



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# **Biosynthesis of Alginate for Encapsulation of Essential Oil in Alginate Beads to Check Effect on Biofilms**

**A Dissertation Presented to SIES College of Arts, Science and  
Commerce (Autonomous), Affiliated to University of Mumbai in  
Fulfilment for The Degree of Master of Science**

**By**

**Shrihari Prahlad Deshpande**

**Guide-in-charge**

**Ms. Hera Azmi**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion  
(W), Mumbai 400022  
(2022-2023)**



# CERTIFICATE

*This is to certify that Shrihari Prahlad Deshpande of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S. College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

*mp hadke*

*Signature of Head of the Department*

*Jeta*  
*27/04/23*

*Signature of the Guide-in-charge*

**HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY**  
**S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**SION (WEST), MUMBAI - 400 922.**

*Examined*

*Ghoga* *27/4/2023*

*Signature of the examiner*





University of Mumbai



# **Screening of Hydrolytic Enzymes and Potential of Agricultural Waste as Substrate for Amylase Production by *Bacillus cereus* Isolated from Mangrove Soil**

**A Dissertation Presented to SIES College of Arts, Science and Commerce (Autonomous), Affiliated to University of Mumbai in Fulfilment for The Degree of Master of Science**

**By**

**Mr. Ganesh Ashok Chintakindi**

**Guide-in-charge**

**Ms. Pooja Mourya**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion (W), Mumbai 400022**

**(2022-2023)**

University of Mumbai



# CERTIFICATE

*This is to certify that Mr. Ganesh Ashok Chintakindi of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

*[Handwritten Signature]*  
Signature of Head of the  
Department

*P. P. MOURYA*  
27/04/2023  
Signature of the Guide-in-charge

HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 922.

*[Handwritten Signature]*  
28/04/23  
Signature of the examiner



University of Mumbai



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College of Arts,  
Science &  
Commerce (Autonomous)

**“Comparing the *in vitro* prebiotic characteristics of raw and boiled potato peel wastes on the growth of isolated probiotic bacteria”**

**A Dissertation Presented to SIES College of Arts, Science and Commerce (Autonomous), Affiliated to University of Mumbai in Fulfilment for The Degree of Master of Science**

**By**

**Mr. Chiliveri Mahesh Venugopal**

**Guide-in-charge**

**Dr. Pramod Ghogare**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion (W), Mumbai 400022**

**(2022-2023)**





# CERTIFICATE

*This is to certify that Mr. Chiliveri Mahesh Venugopal of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

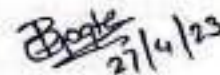


**Signature of Head of the Department**



**Signature of the Guide-in-charge**

HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 922.



**Signature of the examiner**

University of Mumbai



# **Production of Antioxidant rich Fermented Health drink using Effective microorganisms**

**A Dissertation Presented to SIES College of Arts, Science and Commerce (Autonomous), Affiliated to University of Mumbai in Fulfilment for The Degree of Master of Science**

**By**

**Ms. Monika Mehta**

**Guide-in-charge**

**Ms. Deepika Tambe**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion (W), Mumbai 400022**

**(2022-2023)**

University of Mumbai



# CERTIFICATE

This is to certify that Ms. Monika Mehta of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.

*M Phadke*

Signature of Head of the Department

*O Deepika*  
27/04/2023

Signature of the Guide-in-charge

Examined

*Ghagat*  
27/4/2023

Signature of the examiner



HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 922.





**“Stability study of synbiotic dark chocolate developed with pineapple peel as a prebiotic and isolated probiotic strain”**

**A Dissertation Presented to SIES College of Arts, Science and Commerce (Autonomous), Affiliated to University of Mumbai in Fulfilment for The Degree of Master of Science**

**By**

**Ms. Shaikh Iram Hasan Mariam**

**Guide-in-charge**

**Dr. Pramod Ghogare**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion (W), Mumbai 400022**

**(2022-2023)**





# CERTIFICATE

*This is to certify that Ms. Shaikh Iram Hasan Mariam of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S. College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

*mp harelke*

**Signature of Head of the Department**

*Shroga D*

**Signature of the Guide-in-charge**

*Boote 27/4/23*

**Signature of the examiner**

University of Mumbai



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College of Arts,  
Science &  
Commerce (Autonomous)

# **Microbial Consortium with Multifunctional Plant Growth Promoting Attributes: A Tool for Increasing Plant Tolerance Under Saline Stress**

**A Dissertation Presented to SIES College of Arts, Science and  
Commerce (Autonomous), Affiliated to University of Mumbai in  
Fulfilment for The Degree of Master of Science**

**By**

**Ms. Laxmi Raju Pal**

**Guide-in-charge**

**Ms. Pooja Mourya**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion  
(W), Mumbai 400022**

**(2022-2023)**

University of Mumbai



# CERTIFICATE

*This is to certify that Ms. Laxmi Raju Pal of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

*M. Phadke*

*Signature of Head of the  
Department*

HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 922.

*P. P. Mousyga*  
*27/04/2023*

*Signature of the Guide-in-charge*

*Examined*

*Phadke*  
*27/4/2023*

*Signature of the examiner*







# **EXPLORING THE PIGMENT OF SERRATIA MARCESCENS: EXTRACTION, OPTIMIZATION, AND CHARACTERIZATION**

**A Dissertation Presented to SIES College of Arts, Science and  
Commerce (Autonomous), Affiliated to University of Mumbai in  
Fulfilment for The Degree of Master of Science**

**By**

**Kiran Mishra**

**Guide-in-charge**

**Ms. Hera Azmi**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion  
(W), Mumbai 400022  
(2022-2023)**

University of Mumbai



# CERTIFICATE

This is to certify that Ms. Kiran Mishra of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.

*M. Shinde*

Signature of Head of the  
Department

HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 022.

*J. J. J.*  
27/04/23

Signature of the Guide-in-charge

*B. B. B.*  
27/04/23

Signature of the examiner



University of Mumbai



# **Rice Water Fermentation: Antioxidant and phytochemical analysis**

**A Dissertation Presented to SIES College of Arts, Science and Commerce (Autonomous), Affiliated to University of Mumbai in Fulfilment for The Degree of Master of Science**

**By**

**Mrunal Shrikant Ramdas**

**Guide-in-charge**

**Ms. Deepika Tambe**

**S.I.E.S. College of Arts, Science and Commerce (Autonomous) Sion (W), Mumbai 400022  
(2022-2023)**





# CERTIFICATE

*This is to certify that Ms. Mrunal Shrikant Ramdas of M.Sc. Part II Microbiology has successfully completed the work presented in this dissertation at the Department of Microbiology, S.I.E.S College of Arts, Science and Commerce (Autonomous), Sion Mumbai, during the academic year 2022-2023.*

*M. Madhe*  
Signature of Head of the  
Department

HEAD OF THE DEPARTMENT OF MICRO-BIOLOGY  
S.I.E.S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
SION (WEST), MUMBAI - 400 922.

*Aditya*  
27/04/2023  
Signature of the Guide-in-charge

Examined

*Pragati*  
Signature of the examiner 27/4/2023



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

**DEPARTMENT OF BOTANY**

**MSc PART II 2018-2023**

**LIST OF DISSERTATION TITLE**

<b>ACADEMIC YEAR 2018-19</b>		
<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>DISSERTATION TITLE</b>
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”
<b>ACADEMIC YEAR 2019-20</b>		
<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>DISSERTATION TITLE</b>
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”



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**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”
<b>ACADEMIC YEAR 2020-21</b>		
<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>DISSERTATION TITLE</b>
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

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**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”
<b>ACADEMIC YEAR 2021-22</b>		
<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>DISSERTATION TITLE</b>
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

3/19/2024

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**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”
<b>ACADEMIC YEAR 2022-23</b>		
<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>DISSERTATION TITLE</b>
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

3/19/2024



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**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.”



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BHABHA ATOMIC RESEARCH CENTRE  
NUCLEAR AGRICULTURE & BIOTECHNOLOGY DIVISION

**CERTIFICATE**

This is to certify that Ms. Aishwarya Ramakrishnan, student of M.Sc. part II Biotechnology at SIES College of Arts, Science and Commerce, Mumbai has carried out the dissertation entitled "**Morpho-physiological, molecular and bioinformatic analysis in an elongated leaf mutant of chickpea (*Cicer arietinum* L.)**" at Pulse Improvement Section, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre. This dissertation was carried out under my guidance and is in partial fulfilment of the requirement for the Master's degree in Biotechnology as prescribed by SIES College of Arts, Science and Commerce, Mumbai for the year 2022-23.

This dissertation report represents the experiments and comprehensive literature survey carried out by her during the period of October 2023 to February 2023.

**Dr. Archana Joshi Saha**

Scientific officer 'G'

दूरभाष  
TELEPHONE  
सं. - ४०६ मुंबई - ४०००२२  
TELEGRAMS - BARC-MUMBAI CHEMBUR  
दूरभाष सं. - ११-४२-२५५१-५६५१  
FAX NUMBER - ९१-२२-२५५०-३१५१



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This is to certify that **Mr. Amaan Shaikh**, student of M.Sc. in Biotechnology degree, studying in SIES College of Arts, Science and Commerce, Mumbai, Maharashtra has successfully completed a five month project (from October 6, 2022 to February 28, 2023) titled "**In Silico Domain Analysis of Alternatively Spliced Genes Regulated By RNase HI/R-Loops And Development Of Cell-profiler Pipeline**" under the guidance of **Dr. Sheetal Uppal** at the Molecular Genetics Section of Molecular Biology Division for partial fulfillment of his M.Sc. Degree.

Sheetal Uppal  
25/4/23  
Dr. Sheetal Uppal  
Molecular Biology Division  
Homi Bhabha National Institute (HBNI)  
Bhabha Atomic Research Centre (BARC)





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### CERTIFICATE

This is to certify that **Ms. Ayesha Ravindra Shedge**, MSc Part-II Biotechnology, SIES College has successfully completed the dissertation work entitled, "Assessing GJIC Protein Connexin-26 In Human Cancer Cell Lines" from **CRI Laboratory-1, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai**, under the guidance and supervision of **Dr. Ujjwala M. Warawdekar**, during the academic session spanning **2022-2023**.

*Ujjwala M. Warawdekar*

**Dr. Ujjwala M. Warawdekar**  
Scientific Officer 'G'  
CRI Lab 1; KS 326 A  
Cancer Research Institute, (ACTREC)  
Tata Memorial Centre (TMC)  
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Email: [uwarawdekar@actrec.gov.in](mailto:uwarawdekar@actrec.gov.in)

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**Mumbai-400 085**

मुंबई-400 085



भारतसरकार

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### **CERTIFICATE**

I certify that the research work presented in this thesis titled “**Cloning, Heterologous Expression and Purification of CikA a Sensor Kinase from *Anabaena* PCC 7120**” has been carried out by **Ms. Jemema Agnes Tripena Raj, Roll No SMBT2223018** under my supervision and this is her bonafide work. The research work is original and has not been submitted for any other degree of this or any other institute. Further, she was a regular student and has worked under my guidance as a full-time student at “**Molecular Biology Division, Bhabha Atomic Research Centre, Mumbai**” until the submission of the thesis to the SIES College of Arts, Science and Commerce.

**Place: Mumbai**

**Date: 24/04/2023**

**Dr. Dhiman Chakravarty**

Scientific Officer-E,

Molecular Biology Division, BARC.

**Prof. Anand Ballal**

Scientific Officer-H

Head,

Biomolecular Damage & Repair Section,

Molecular Biology Division, BARC.





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This is to certify that Mr. Onkar Haripant Karajgikar, MSc Part-II Biotechnology, SIES College of Arts, Science, and Commerce (Autonomous) has successfully completed the dissertation work entitled, "Destabilization of mutant p53 by deubiquitinase inhibitor WP1130 in cancer cell lines." from Teni Lab, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai, under the guidance and supervision of Dr. Tanuja Teni, Principal Investigator, Teni Lab, during the academic session of 2022-2023

Guide Signature

**Dr. Tanuja Teni**

Principal Investigator  
Teni Lab

Date: 26.04.2023

Place: Navi Mumbai

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Cancer is curable, if detected early.



## CERTIFICATE

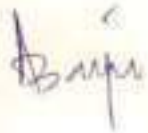
This is to certify that Ms. Anisha Vinay Bhende, MSc Part-2, Biotechnology, SIES College, have satisfactorily completed the dissertation work at LifeSenz Cancer Research Laboratory entitled “Improving therapeutic efficacy utilising combination therapy approach in an *in vitro* pancreatic cancer model” for the partial fulfilment of the Master’s degree in Biotechnology as prescribed by the University of Mumbai during the academic year 2022 – 2023.

This dissertation represents an independent work carried out by her.

Sincerely,

Dt: 31-03-2023

Mumbai, India



Arindam Banerjee, PhD  
CEO and Director  
Lifesenz Cancer Research Labs Pvt Ltd  
Mumbai 400080  
Tel: +91-22 2591 2747  
Email: [arindam.banerjee@lifesenz.co.in](mailto:arindam.banerjee@lifesenz.co.in)  
[www.lifesenz.co.in](http://www.lifesenz.co.in)

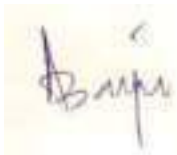
## CERTIFICATE

This is to certify that Mr. Omkar Sundeep Wakale, MSc Part-2, Biotechnology, SIES College, have satisfactorily completed the dissertation work at LifeSenz Cancer Research Laboratory entitled "Development and functional characterization of an in vitro acquired paclitaxel resistance breast cancer model" for the partial fulfilment of the Master's degree in Biotechnology as prescribed by the University of Mumbai during the academic year 2022 – 2023. This dissertation represents an independent work carried out by him.

Sincerely,

Dt: 24-04-2023

Mumbai, India



Arindam Banerjee, PhD  
CEO and Director  
Lifesenz Cancer Research Labs Pvt Ltd  
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Tel: +91-22 2591 2747  
Email: [arindam.banerjee@lifesenz.co.in](mailto:arindam.banerjee@lifesenz.co.in)  
[www.lifesenz.co.in](http://www.lifesenz.co.in)



Bai Jerbai Wadia Hospital for Children,  
Acharya Dende Marg, Parel,  
Mumbai, Maharashtra, India, 400013  
Website: <http://www.wadiahospital.org/BEW10C.aspx>  
Tel: +91-22-24197200  
Email: [molgen@wadiahospital.org](mailto:molgen@wadiahospital.org)

**BAI JERBAI WADIA HOSPITAL FOR CHILDREN**

**CERTIFICATE**


This is to certify that the dissertation entitled "Molecular Diagnosis of MTB Detection and RIF resistance in Lymph node tissue of paediatric Population in tertiary care hospital" is a bonafide work done by Ms. Gunjan Rajesh Gujrati of SIES Autonomous College, Mumbai under the direct guidance of Dr. Sonal Ghogale and Co-guidance of Mr. Lalit Samant as a partial fulfillment of regulations for the award of the degree of M.Sc. Part II Biotechnology. Her work has been checked by me from time to time. I am satisfied regarding the authenticity of her observations, methodology and result in this dissertation.

We have great pleasure in forwarding it to SIES Autonomous College, Mumbai.

Date:

Place: Parel

Guide

  
Dr. Sonal Ghogale  
Doctor of Medicine in Microbiology  
Consultant Microbiologist  
Bai Jerbai Wadia Hospital for Children

Co-Guide

  
Mr. Lalit R. Samant  
Research Officer  
Molecular Genetics Research lab  
Bai Jerbai Wadia Hospital for Children





सीएसआईआर-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान  
CSIR-National Environmental Engineering Research Institute

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद / Council of Scientific & Industrial Research)

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2492 6859

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E-mail : neerimumbai@neeri.res.in

**Certificate**

Date: 25-04-2023

This is to certify that Ms. Kajal Chandrajit Yadav, pursuing M.Sc. Biotechnology from S.I.E.S. College of Arts, Science and Commerce, Sion (W), Mumbai has carried out project entitled, "Assessment of Microplastics and other contaminants along the beaches of Mumbai City" at CSIR-NEERI, Mumbai Zonal Centre under the supervision and guidance of Dr. (Mrs.) Shalini A. Tandon, Principal Scientist during 1<sup>st</sup> November 2022 to 15<sup>th</sup> February 2023. This was the requirement in the partial fulfilment of the degree.

*N. Goyal*  
25/4/23

Dr. Nitin Goyal

(Principal Scientist)

Head & Scientist Incharge

MZC, CSIR-NEERI

*Shalini A. Tandon*  
25/4/23

Dr. Shalini A. Tandon

(Principal Scientist)

Guide of the student



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IMMUNOHAEMATOLOGY



आई सी एम आर - राष्ट्रीय प्रतिरक्षा रक्षित विज्ञान संस्थान  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार  
कल्याण मंत्रालय, भारत सरकार

ICMR-National Institute of Immunohaematology  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India.

This is to certify that the dissertation entitled "**Molecular Characterization of Chronic HBV cases attending tertiary care centre in Mumbai**" submitted to S.I.E.S. College of Arts, Science and Commerce (Autonomous), towards partial fulfilment of the degree of **M.Sc. (Biotechnology)** by paper for the academic year 2022-2023, is original and independent work done by **Ms. Kunali Ajay Ambavale** from December 2022 to April 2023, under my guidance at ICMR-National Institute of Immunohaematology, Mumbai.

Dr. Anindita Banerjee  
Scientist 'E' & Head,  
Transfusion Transmitted Disease Department,  
ICMR-NIIH

Dr. Manisha Madkaikar  
Director,  
ICMR-NIIH



निदेशक / Director  
आईसीएमआर-राष्ट्रीय प्रतिरक्षा रक्षित विज्ञान संस्थान  
ICMR - National Institute of Immunohaematology  
13वीं मंजिल, नई बहुमंजिली इमारत, के.एम. अस्पताल परिसर,  
पारेल, मुंबई-४०० ०१२.  
13th Floor, New Multistoreyed Building, KEM Hospital Campus,  
Parel, Mumbai - 400 012.



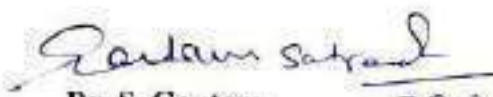
GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
FOOD TECHNOLOGY DIVISION



**CERTIFICATE**

This is to certify that Ms. **Mahek Jatin Parmar**, a post-graduate student from S.I.E.S. College of Arts, Science and Commerce, Sion, Mumbai has worked in Food Technology Division on an ongoing project titled "**Applications of radiation processed psyllium in developing high fibre functional foods and its biodegradation**" from 10<sup>th</sup> October, 2022 to 28<sup>th</sup> February, 2023. During this period the student has worked on different aspects of project in the area of Food science and Technology and has been found to be conscientious and sincere. As the student has worked on an ongoing project of BARC, no part of this project work should be published by the student or his/her institute either in journal or in conference/symposium or any other platform.

  
(Dr. S N Jamdar)  
Guide

  
Dr. S. Gautam  
Head,  
Food Technology Division,  
BARC, Mumbai

डॉ. एस. गौतम / Dr. S. Gautam  
ज्येष्ठ, उच्च शिक्षण विभाग / Head, Food Technology Division  
के. विभाग में / Bio-Science Group  
एच. एच. एच. अनुसंधान केंद्र / Bhabha Atomic Research Centre  
भारत सरकार / Government of India  
ट्रॉम्बे, मुंबई - 400 085 / Trombay, Mumbai-400 085





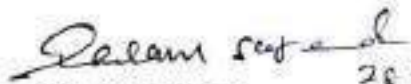
GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
FOOD TECHNOLOGY DIVISION



**CERTIFICATE**

This is to certify that **Ms. Neha Appani**, a post-graduate student from S.I.E.S. College, Sion, Mumbai has worked in Food Technology Division on an ongoing project titled **“Shelf-Life Extension of Pointed Gourd using a Combination Treatment including Gamma Radiation Processing”** from 10<sup>th</sup> October, 2022 to 28<sup>th</sup> February, 2023. During this period the student has worked on different aspects of project in the area of Food science and Technology and has been found to be conscientious and sincere. As the student has worked on an ongoing project of BARC, no part of this projectwork should be published by the student or his/her institute either in journal or in conference/symposium or any other platform.

  
(Dr. Sudhaanshu Saxena)  
Guide

  
Dr. S. Gautam  
Head,  
Food Technology Division,  
BARC, Mumbai

डॉ. एस. गौतम / Dr. S. Gautam  
अध्यक्ष, खाद्य प्रौद्योगिकी विभाग / Head, Food Technology Division  
बैज्ञानिक समूह / Bio-Science Group  
भबहा परमाणु अनुसंधान केंद्र / Bhabha Atomic Research Centre  
भारत सरकार / Government of India  
ट्रॉम्बे, मुंबई - 400 085 / Trombay, Mumbai - 400 085





**icmr** **NIRRCH**  
NATIONAL INSTITUTE FOR RESEARCH  
IN REPRODUCTIVE AND CHILD HEALTH



आई सी एम आर - राष्ट्रीय प्रजनन एवं  
बाल स्वास्थ्य अनुसंधान संस्थान, मुंबई  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार  
कल्याण विभाग, भारत सरकार

ICMR - National Institute for Research in  
Reproductive and Child Health, Mumbai  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

## CERTIFICATE

This is to certify that Miss. Niharika Milind Rahate M.Sc. (Biotechnology) student from SIES college of Arts, Science and Commerce, Sion, University of Mumbai carried out the project entitled "Expression of complement protein in Polycystic Ovary Syndrome (PCOS)" under the supervision of Dr. Shaini M Joseph at Genetic Research Center, National Institute for Research in Reproductive and Child Health (NIRRCH) from 15.10.2022 to 15.03.2023. This work was conceived and executed at NIRRCH and has not been reported in any specific communication earlier. No part of the data included herein would be published in any form without prior permission of the Dr. Shaini M Joseph, Scientist C, Genetic Research Center, NIRRCH, Parel, Mumbai.

Candidate: Miss. Niharika Milind Rahate

Acknowledged by

Project guide  
**Dr. Shaini Joseph**  
Scientist 'C'  
Genetic Research Centre  
ICMR- NIRRCH

**Dr. Shailesh Pande**  
Scientist 'D' and Head  
Genetic Research Center  
ICMR- NIRRCH

**Dr. Tara Menon**  
Head of Department  
Department of Biotechnology  
SIES college, Sion  
**CO-ORDINATOR**  
DEPARTMENT OF BIOTECHNOLOGY  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
Sion (W), Mumbai - 400 022.



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

**Ref: NABTD/2023**

**24-04-2023**

**CERTIFICATE**

This is to certify that Ms. Nikita Mishra a student of Master of Science in Biotechnology, S.I.E.S College, Sion, Mumbai, Maharashtra, has undergone training for five months in research work in Mutation Breeding Section-II, Nuclear Agriculture & Biotechnology Division, Bhabha Atomic Research Centre, Mumbai. She worked on “**Screening of wheat mutants for Nitrogen Use Efficiency and understanding the effect of nitrogen on seedling traits**”. This was the requirement in partial fulfilment of the degree. She has also participated in other ongoing laboratory activities during the training period. She is intelligent, hard working and sincere. She is also a good learner and has interest in research.

We wish her good luck and bright future.

**DR. SUMAN BAKSHI, PH.D.**  
**SCIENTIFIC OFFICER/F**  
**MUTATION BREEDING SECTION-II**  
**NUCLEAR AGRICULTURE & BIOTECHNOLOGY DIVISION**  
**BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, MUMBAI-400085.**





**SIES**

College of Arts,  
Science & Commerce  
(Autonomous)

RISE WITH EDUCATION

AFFILIATED TO UNIVERSITY OF MUMBAI - NAAC REACCREDITED - "A" GRADE

**CERTIFICATE**

This is to certify that Ms. Priyamvada Nath, MSc Part-II, Biotechnology, SIES College, has satisfactorily completed the dissertation work entitled "The investigation of potential crude oil degraders isolated from Dockyard seawater and Petroleum refinery sludge" for the partial fulfilment of the Master's degree in Biotechnology as prescribed by S.I.E.S College of Arts, Science and Commerce (Autonomous) during the academic year 2022-2023.

This dissertation represents an independent work carried out by her.

*Tara Menon*

**Dr. Tara Menon,**

**Vice Principal & Head,**

**Department of Biotechnology,**

**CO-ORDINATOR**

DEPARTMENT OF BIOTECHNOLOGY  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE

Sign (W), Mumbai - 400 022.

*ma*  
11/04/23

*87*  
27/04/23

**Signature of Examiner**

*Uma Shankar*

**Dr. Uma Shankar,**

**Principal**

*f*



**290423**

*[Handwritten signature]*







Government of India  
Bhabha Atomic Research Centre  
Nuclear Agriculture and Biotechnology Division

NABTD/2023/ P 102936

Date: 27<sup>th</sup> July, 2023

CERTIFICATE

This is to certify that Ms. SAYALI AVADHUT JOSHI a MSc. Student of the Department of Biotechnology, S.I.E.S. COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), Mumbai, Maharashtra has worked on 'MUTAGENIC SENSITIVITY STUDY AND ASSESSMENT OF LEAF MORPHOLOGICAL AND MOLECULAR DIVERSITY IN MUSTARD' as a part of M.Sc. degree during October 1<sup>st</sup> 2022 to February 28, 2023 in the Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai. She majorly worked with molecular biology techniques (gDNA extraction, PCR & gel electrophoresis), flow cytometry, mutagenic sensitivity assessment and plant morphological diversity assessment. Along with that she also got hands on experience in the field of bioinformatics (gene & protein sequence analysis) & statistics. I found her scholastic, hardworking and sincere.

*Archana Kumari*

Dr. Archana N. Rai  
Scientific Officer F  
Mutation Breeding Section II



GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
FOOD TECHNOLOGY DIVISION



**CERTIFICATE**

This is to certify that **Ms. Sharanya Shankar**, a post-graduate student from S.I.E.S College, Sion, Mumbai has worked in Food Technology Division on an ongoing project titled “**Study on Health Protective Antimutagenic Effect of Sweet Corn Kernel**” from 10<sup>th</sup> Oct. 2022 to 28<sup>th</sup> Feb. 2023. During this period the student has worked on different aspects of project in the area of functional properties of food and has been found to be conscientious and sincere. As the student has worked on an ongoing project of BARC, no part of this project work should be published by the student or his/her institute either in journal or in conference/symposium or any other platform.

*Sanjeev Kumar*

( **Dr. Sanjeev Kumar** )  
**Guide**

*Dr. S. Gautam* 28/2/23

**Dr. S. Gautam**  
Head,  
Food Technology Division,  
BARC, Mumbai

**डॉ. एस. गौतम / Dr. S. Gautam**  
अध्यक्ष, खाद्य प्रौद्योगिकी प्रभाग / Head, Food Technology Division  
जैव-विज्ञान वर्ग / Bio-Science Group  
भाभा परमाणु अनुसंधान केंद्र / Bhabha Atomic Research Centre  
भारत सरकार / Government of India  
ट्रॉम्बे, मुंबई - 400 085 / Trombay, Mumbai - 400 085



Government of India  
Bhabha Atomic Research Centre  
Molecular Biology Division

Ref: BARC/MBD/2023/I/98754

Date: 26-04-2023

**CERTIFICATE**

This is to certify that Ms. Shweta R. Vishwakarma, M. Sc. Biotechnology student from Department of Biotechnology, SIES College of Arts, Science and Commerce (Autonomous), Sion, Mumbai, Maharashtra, India, has completed a project entitled "Cloning, Heterologous Expression and Analysis of Site-Directed Mutants of Rice CuZn Superoxide Dismutase" at Molecular Biology Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra, under my guidance, 06<sup>th</sup> October 2022 to 28<sup>th</sup> February 2023.

*Ajay Saini*  
26/4/2023

**Dr. Ajay Saini**  
Scientific Officer 'G'  
MBD, BARC, Mumbai

*Hema Rajaram* 26/4/2023

**Dr. Hema Rajaram**  
Head, Molecular Biology Division  
Bhabha Atomic Research Centre  
Mumbai, MH-400085  
अणुविक जैविक प्रभाग / MOLECULAR BIOLOGY DIVISION





टाटा स्मारक केन्द्र  
TATA MEMORIAL CENTRE

कैंसर उपचार, अनुसंधान एवं शिक्षा का प्रगत केन्द्र  
ADVANCED CENTRE FOR TREATMENT RESEARCH  
& EDUCATION IN CANCER

- CANCER RESEARCH INSTITUTE
- CLINICAL RESEARCH CENTRE
- CENTRE FOR CANCER EPIDEMIOLOGY

प.ऊ.वि. भारत सरकार का एक सहायता अनुदान प्राप्त संस्थान  
A GRANT-IN-AID INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVT. OF INDIA

69723

### Certificate from Guide

Dr. Sharath Chandra Arandkar  
Principal Investigator, Tumor-microenvironment Lab  
Assistant Professor, Homi Bhabha National Institute  
Tata Memorial Centre-ACTREC.

Date: 26 April 2023

### TO WHOM IT MAY CONCERN

This is to certify that Ms. Siddhi Udaykumar Bute from the Second year of her M.Sc. Biotechnology has successfully completed the work on "Validation of transient and stable knockdown of IGFBP5, IGFBP6 and IGFBP7 in cancer-associated fibroblasts" in partial fulfilment of Master of Science in Biotechnology from October 2022 to April 2023 at the Advanced Centre for Treatment, Research, and Education in Cancer, Tata Memorial Centre under the guidance of Dr. Sharath Chandra Arandkar. No part of this work will be published in whatsoever form in any journals or online, without proper consent from Dr. Sharath Chandra Arandkar, under whose guidance this work was carried out.

Thanking you,  
Sincerely,

  
(Dr. Sharath Chandra Arandkar)

Advanced centre for Treatment, Research and Education in Cancer, Tata Memorial Centre  
Email: sarandkar@actrec.gov.in

खाण्डर, नवी मुंबई - ४१० २१०, भारत.  
दूरभाष : +९१-२२-२७४० ५०००  
+९१-२२-३९२४ ५०००  
फैक्स : +९१-२२-२७४० ५०६५

जन्म हुआत होने पर कैंसर ठीक हो सकता है।

E-mail : mail@actrec.gov.in  
Website : www.actrec.gov.in

Kharghar,  
Navi Mumbai - 410 210, INDIA,  
Phone: +91 - 22 - 2740 5000  
+91 - 22 - 3924 5000  
Fax: +91 - 22 - 2740 5085

Cancer is curable, if detected early.



टाटा स्मारक केंद्र

TATA MEMORIAL CENTRE

26611

कैंसर उपचार, अनुसंधान एवं शिक्षा का प्रगत केंद्र  
ADVANCED CENTRE FOR TREATMENT RESEARCH  
& EDUCATION IN CANCER

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कैंसर अनुसंधान संस्थान

CANCER RESEARCH INSTITUTE

वैधानिक अनुसंधान केंद्र

CLINICAL RESEARCH CENTRE

कैंसर एपिडिमियोलॉजी केंद्र

CENTRE FOR CANCER EPIDEMIOLOGY

## CERTIFICATE

This is to certify that Ms. Zoha Ijaz Ahmed-Hublikar has satisfactorily completed her dissertation under the guidance of Dr. Rajiv Sarin [MD, DNB, FRCR (Clinical Oncology)], In-Charge Cancer Genetics Unit, ACTREC, Kharghar. The research work presented in dissertation title "Next Generation sequencing based targeted Germline analysis of suspected hereditary cancer cases in a tertiary cancer Centre" has been carried out by Ms. Zoha Ijaz Ahmed Hublikar in Cancer Genetics and Genomics Laboratory, TMC ACTREC. Further, she has finished her tasks with satisfactory performance and she was regular and sincere while working under my guidance at ACTREC, TMC, Navi Mumbai from 01.11.2022 till date

Date: 26.04.2023

Place: Kharghar, Navi-Mumbai

Dr. Rajiv Sarin

[MD, DNB, FRCR (Clinical Oncology)],

In-Charge Cancer Genetics Unit, ACTREC

सेक्टर २२, खार्घर,  
नवी मुंबई - ४१० २१०, भारत.  
दूरभाष : +९१-२२-२७४० ५०००  
+९१-२२-६८७३ ५०००  
फैक्स : +९१-२२-२७४० ५०८५

कन्सर इलाज होने पर कैंसर ठीक हो सकता है।  
Cancer is curable, if detected early.

Sector 22, Kharghar  
Navi Mumbai - 410 210, INDIA  
Phone : +91-22-2740 5000  
+91-22-6873 5000

E-mail : mail@actrec.gov.in  
Website: www.actrec.gov.in

**Subject : Internship Completion Certificate**

Joules to Watts Business Solution Pvt Ltd



Date: 01/04/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Sneha Rajendran has done her internship in Joules to Watts Business Solution Pvt Ltd, from 21/02/2022 to 01/04/2022.

She has worked on a project titled Procter and Gamble. This project was aimed at managing the employee payroll details. As part of the project, she has maintained the payroll details for employee belonging to different regions.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish him/her all the best for her upcoming career.

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

Thank you.

For Joules to Watts Business Solution Pvt Ltd

**Joules to Watts Business Solutions Pvt. Ltd.**

**Subject : Internship Completion Certificate**

Joules to Watts Business Solution Pvt Ltd



Date: 01/04/2022

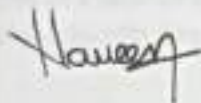
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Disha Shetty has done her internship in Joules to Watts Business Solution Pvt Ltd, from 21/02/2022 to 01/04/2022.

She has worked on a project titled Procter and Gamble. This project was aimed at managing the employee payroll details. As part of the project, she has maintained the payroll details for employee belonging to different regions.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish him/her all the best for her upcoming career.



Thank you.

For Joules to Watts Business Solution Pvt Ltd

**Joules to Watts Business Solutions Pvt. Ltd.**



## Corient Business Solutions Private Limited

Floor 1, Mirchandani Business Park, Saki Naka, Andheri East  
Mumbai, Maharashtra - 400072

Website- [www.corientbs.com](http://www.corientbs.com)

E-mail - [info@corientbs.com](mailto:info@corientbs.com)

Phone- +91 22 86551 31300



### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. **ANGELICA MARIA DIAS** of **S.I.E.S College** worked as an intern as part of her Master of Science course in Data Science of University of Mumbai.

The particulars of internship are given below:

- Internship starting date: 10.02.2022
- Internship ending date: 09.04.2022
- Actual number of days worked: 56 days
- Tentative number of hours worked: 300 Hours

Broad area of work: Solutions and services

#### **Work done by the intern during the period:**

- The interns were provided with client datasets available with us that had financial data.
- They were supposed to work on those datasets using either PowerBI or Tableau and help us get some insights of the data provided.
- In a couple of days, the interns would provide us with their preliminary analysis on the dataset.
- At the end of every week, they were to summarize the observations made by them.

Signature:

Name: Sachin Lohade

Designation: Director

Contact number: 9892403195

Email: [sachin@corientbs.com](mailto:sachin@corientbs.com)



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**Appendix 1**

(Proforma for the certificate for internship in official letter head)

This is to certify that **Mr. Barathan Selvan** of **SIES College of Arts, Science and Commerce** worked as an intern as part of his M.Sc. course in Data Science of University of Mumbai. The particulars of internship are given below:

**Internship starting date:** 09 Feb 2022

**Internship ending date:** 01 April 2022

**Actual number of days worked:** 60 days

**Tentative number of hours worked:** 480 Hours

**Broad area of work:** Trainee Data Analytics

**A small description of work done by the intern during the period:**

1. Analyzing data using statistical techniques and providing reports
2. Developing and implementing databases and data collection systems
3. Acquiring data from primary and secondary sources and maintaining data systems
4. Working with management to prioritize business and information needs
5. Locating and defining new process improvement opportunities
6. Filtering and cleaning data

**Signature:**

**Name:** Anisha Jaichandran

**Designation:** Administrative Manager

**Contact No:** 9967445321

**Email:** isfinformaticaanalytica@gmail.com



## Certificate of Internship

This is to certify that **Mr. Balaji Muniaswamy Nadar** of **S.I.E.S College of Arts, Science and Commerce (Sion)** worked as an intern as part of his/her MSc course in Data Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: 22NOV2022

Internship ending date: 05APR2022

Actual number of days worked: 86

Tentative number of hours worked: 350 Hours

Broad area of work: **SAS Programming in Clinical Domain**

A small description of work done by the intern during the period:

- Performing data extraction and data manipulation using DATA and PROC steps.
- Extensively used SAS output delivery system to create customized reports in PDF and RTF
- Understood the working structure of Clinical Domain and various phases in Clinical Trials.
- Hands on experience with commonly used SAS functions.

For Versante Clinical Research Solutions Pvt. Ltd.,



Barath R Baskaran  
(Manager)

bbaskaran@versanteintl.com





## Appendix 1

(Proforma for the certificate for internship in official letter head)

This is to certify that **Miss. Sanjeevani Banerjee** of **SIES College of Arts, Science and Commerce** worked as an intern as part of his M.Sc. course in Data Science of University of Mumbai. The particulars of internship are given below:

**Internship starting date:** 01-02-2022

**Internship ending date:** 11-04-2022

**Actual number of days worked:** 61 days

**Tentative number of hours worked:** 488 hours

**Broad area of work:** Build dashboards for various stakeholders on online study and mentoring portal

### A small description of work done by the intern during the period:

The Intern worked on Extraction, Transformation and Loading of data from database, made dynamic dashboards using Google Data Studio, Power BI and Tableau and populated data from various data-sources. Collaborated with team and presented her ideas on how to make visualizations more easy to understand. The intern worked in independently without much interference needed from the management.

**Signature:**

**Name:** Anisha Jaichandran

**Designation:** HR Manager

**Contact number:** 9967445821

**Email:** isinformaticaanalytica@gmail.com



(Seal of the organization)



**Corient Business Solutions Private Limited**  
Floor 1, Mirchandani Business Park, Saki Naka, Andheri East  
Mumbai, Maharashtra - 400072  
Website- [www.corientbs.com](http://www.corientbs.com)  
E-mail - [info@corientbs.com](mailto:info@corientbs.com)  
Phone- +91 22 86551 31300



**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. **SONIA SARAVANAN** of **S.J.E.S. College** worked as an intern as part of her Master of Science course in Data Science of University of Mumbai.

The particulars of internship are given below:

- Internship starting date: 10.02.2022
- Internship ending date: 09.04.2022
- Actual number of days worked: 56 days
- Tentative number of hours worked: 300 Hours

Broad area of work: Solutions and services

Work done by the intern during the period:

- The interns were provided with client datasets available with us that had financial data.
- They were supposed to work on those datasets using either PowerBI or Tableau and help us get some insights of the data provided.
- In a couple of days, the interns would provide us with their preliminary analysis on the dataset.
- At the end of every week, they were to summarize the observations made by them.

Signature:

Name: Sachin Lohade

Designation: Director

Contact number: 9892403195

Email: [sachin@corientbs.com](mailto:sachin@corientbs.com)





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## Appendix 1

(Proforma for the certificate for internship in official letter head)

This is to certify that Mr. Pani Praveen Wilfred of SIES College of Arts, Science and Commerce(Autonomous) College/Institution worked as an intern as part of his MSc course in Data Science of University of Mumbai. The particulars of internship are given below:

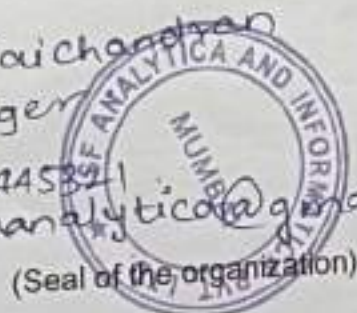
Internship starting date: 01-01-2022  
Internship ending date: 31-03-2022  
Actual number of days worked: 80  
Tentative number of hours worked: 560 Hours

Broad area of work: Analyzing data of Games and visualizing data with graphs and plots.

### A small description of work done by the intern during the period:

Showing dynamic data of crypto-currencies in responsive graphs, analyzing how a player performs and going to perform by seeing his past data. Running python crawlers to fetch data from a website and automating to add it in the data and displayed in the system. He also made dashboards by python scripts, Tableau, Power BI and also published in the private server of the company and also showed public demo. These dashboards are then integrated into the web application as the data changes dynamically.

Signature:   
Name: Anisha Jaichandran  
Designation: HR / Manger  
Contact number: 9967445321  
Email: isfinformaticaanalytica@gmail.com



(Seal of the organization)



THE SPARKS FOUNDATION  
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## CERTIFICATE OF COMPLETION

*This Certificate is presented to*

*Ansari Farheen Falima*

*for an outstanding contribution during the session (Mar 2022 - Apr 2022) of  
Graduate Rotational Internship Program at The Sparks Foundation on 01-Apr-2022.*



Certificate Number: RVSBBPQEGN

Verification at:

<https://truecertificates.com/verification/>

PRANAV DUBEY

MANAGING DIRECTOR



**Appendix 1**

(Proforma for the certificate for internship in official letter head)

This is to certify that Mr/Ms YASH CHANGDEV HAIARE of SIES College/Institution worked as an intern as part of his/her MSc course in Data Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: 17/02/2022

Internship ending date: ONGOING

Actual number of days worked: 60

Tentative number of hours worked: ~360 Hours

Broad area of work: IDT & MICROCONTROLLER

A small description of work done by the intern during the period:

IDT & APP DEVELOPMENT (WEB + PHONE)  
INTERFACING MICROCONTROLLER WITH VARIOUS COMPONENTS  
LIKE LED, SWITCH, BUZZER, MOTOR, LDR, MICROPHONE AND  
MANY MORE TO BE CONTROLLED BY INTERNET.

Signature: Atit

Name: ATIT DUBAY

Designation: SR. PROGRAM MANAGER

Contact number: 9167630072

Email: ad.eduprime@gmail.com

(Seal of the organization)



**EDUPRIME Technologies Pvt. Ltd.**

119, Swastik Disa Corporate Park, LBS Marg, Ghatkopar (w), Mumbai - 400086. [www.eduprime.com](http://www.eduprime.com)





SIES College of Arts, Science and Commerce (Autonomous) Sion  
(W), Mumbai – 400 022

## CERTIFICATE

This is to certify that Miss. **Aswany Anilkumar** Roll No. **SMDS2122003** has successfully completed the necessary course of experiments in the subject of **Internship** during the Academic year **2021-22** complying with the requirements for the course of **M.Sc. Data Science [Semester-IV]**

Prof. In-Charge    Head of the Department  
Prof. Manoj Singh



Prof. Manoj Singh

Examination Date:

Examiner's Signature & Date:

## Certificate of Internship

This is to certify that Mr. Mudappala Pranav Nair of SIES College of Arts Science and Commerce (Autonomous), Sion (West), Mumbai-22 College/Institution worked as a Data Analyst Intern as part of his MSc course in Data Science of University of Mumbai. The particulars of internship are given below:

**Internship Start Date:** December 1, 2021

**Internship End Date:** February 28, 2022

**Actual Number of Days Worked:** 60

**Tentative Number of Hours Worked:** 440

**Broad Area of Work:** Google Data Studio, Google Big Query (GCP)

### **A small description of work done by the intern during the period:**

Pranav had worked on a Detailed Visual Dashboard for an eCommerce business within the Organization. The dashboard consists of a detailed breakdown of Various departments on various Key Metrics. The dashboard was built on Google Data Studio with Big Query and Google Sheets as the base.

**Signature:**



**Name:** Arasu Shanker

**Designation:** Chief Technical  
Officer (CTO)

**Email:** arasu@kbxholdings.com



THE SPARKS FOUNDATION  
INSPIRE. INNOVATE. INTEGRATE

## CERTIFICATE OF COMPLETION

*This Certificate is presented to*

*Anjali Chettiar*

*for an outstanding contribution during the session (Mar 2022 - Apr 2022) of  
Graduate Rotational Internship Program at The Sparks Foundation on 01-Apr-2022.*



Certificate Number: JSM5L356MC

Verification at:

<https://truecertificates.com/verification/>

PRANAV DUBEY

MANAGING DIRECTOR

5<sup>th</sup> April 2022

**CERTIFICATE OF INTERNSHIP**

This is to certify that Ms. Nidhi P. K. Bhaskaran of S.I.E.S. (Sion) College / Institution is working as an intern as part of her M.Sc. course in Data Science from the University of Mumbai.

She is in her second month of internship having started on 8th of February 2022 and has worked for at least 250 hours. She would be associated with us for 3 months.

Our Chief Technology Officer, Ashok Sannabhadri, is her guide and she has been entrusted with the following:

- Understanding the existing IT Systems and Data architecture
- Researching the technical limitations of Power Automate and
- Delivering critical Sales reports using a combination of Ms Excel, Power BI and Power Automate

This certificate is being issued to her for submission to her college.

Yours faithfully,  
**UNIVERSAL NUTRISCIENCE PRIVATE LIMITED**



**Rajesh Darekar**  
**Chief Human Resources Officer**





**SIES College of Arts, Science and Commerce (Autonomous)**  
**Sion(W), Mumbai - 400 022**  
**CERTIFICATE**

This is to certify that Mr. VINNISH NADAR Roll No. SMDS2122018 has successfully completed the necessary course of experiments in the subject of INTERNSHIP DOCUMENTATION during the academic year 2021-22 complying with the requirements for the course of M.Sc. Data Science [Semester-IV]

Prof. In-Charge  
Prof. Manoj Singh

Head of the Department  
Prof. Manoj Singh

Examination Date:  
Examiner's Signature & Date:

/ / 2021





# ISF Analytica and Informatica Pvt. Ltd

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"Your Future with a Difference"



## Appendix 1

(Proforma for the certificate for internship in official letter head)

This is to certify that **Mr. Inbasagar Murugan Nadar** of **SIES College of Arts, Science and Commerce (Autonomous)** worked as an intern as part of his M.Sc. course in Data Science of University of Mumbai. The particulars of internship are given below:

**Internship starting date:** 24-01-2022

**Internship ending date:** 08-04-2022

**Actual number of days worked:** 63

**Tentative number of hours worked:** 504 Hours

**Broad area of work:** Build dashboards on for crypto-based banks and games.

### A small description of work done by the intern during the period:

The Intern created dynamic JavaScript based dashboards using ApexCharts and populated data from various data-sources and APIs. Collaborated with team and presented his ideas for automating some of the manual work done earlier. The intern also communicates with foreign clients to gather requirements on weekly basis and works in independently without much interference needed from the management.

**Signature:**

**Name:** Anisha Jaichandran

**Designation:** HR Manager

**Contact number:** 9967445321

**Email:** isfinformaticaanalytica@gmail.com



(Seal of the organization)

Registration Number

137504

## MADRAS SCIENTIFIC RESEARCH FOUNDATION

NO.1, DHARMARAJA STREET SRINIVASAPURAM  
GUDUVANCHERY KANCHEEPURAM  
TN - 603202 , INDIA

### Responsibilities:

1. Participating in the learning of concepts of ML technologies and processes with designated teams
2. Participate in training sessions in accordance with the designated module guidelines
3. Evaluate metrics to help improve our productivity
4. Implementing machine learning algorithms
5. Working on deep learning
6. Preparing & analyzing data and identifying patterns
7. Researching solutions from machine learning papers and journals
8. Weekly report preparation and submission to the Mentor

**Congratulations!**

*M.S. Keerthana*

M S Keerthana,  
Head of Human Resource Management

**Signature**

[www.madrasresearch.org](http://www.madrasresearch.org)

[hr@madrasscience.com](mailto:hr@madrasscience.com)



Phone Number : 0042071272 Email - Id : [admin@madrasscience.com](mailto:admin@madrasscience.com)



MSC CS SEM IV INTERNSHIP CERTIFICATE (2022-23)



**SHREE BHANDUP GUJARATI SEVA MANDAL**

(Regd. Mum. Public Trust No. E-1014B)

**Certificate of Internship**

This is to certify that Ms. Khushbu Chhadva of SIES College of Arts, Science & Commerce (Autonomous), Sion (West), Mumbai-22 worked as a Program and Operation Intern as part of her MSc course in Computer Science.

The particulars of internship are given below:

**Internship Start Date:** 1<sup>st</sup> December, 2022

**Internship End Date:** 28<sup>th</sup> February, 2023

**Actual Number of Days Worked:** 73

**Tentative Number of Hours Worked:** 438

**Broad Area of Work:** Program and operations intern

**A small description of work done by the intern during the period:**

Khushbu has worked in the Blood Drive Project of our NGO with her duties being research, data manipulation and communication. She handled the data and storage of it on the Google Drive. She was responsible to create reports based on analysis of the data.

Signature:

Name: Harshit Dand

Designation: Assistant Manager

Contact number: +91 8879288658

Email: harshitudand@gmail.com



(seal of the organization)

"MUKHTI DHAM", Lal Bahadur Shastri Marg, Sonapur, Bhandup (West), Mumbai - 400 078.





## SHREE BHANDUP GUJARATI SEVA MANDAL

(Regd. Mum. Public Trust No. E-1014B)

### Professional Evaluation of Intern

**Name of the Intern:** Khushbu Chhadva

**College/Institute:** SIES College of Arts, Science and Commerce  
(Autonomous), Sion (West), Mumbai-22

[Note: Give a score in the 1-5 scale by putting ✓ in the respective cells]

Sr No	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance		✓			
2	Punctuality	✓				
3	Adaptability		✓			
4	Ability to shoulder responsibility		✓			
5	Ability to work in a team			✓		
6	Written and oral communication skills	✓				
7	Problem solving skills		✓			
8	Ability to grasp new concepts			✓		
9	Ability to complete task	✓				
10	Quality of work done	✓				



## SHREE BHANDUP GUJARATI SEVA MANDAL

(Regd. Mum. Public Trust No. E-1014B)

### Comments:

During the internship, Khushbu Chhadva has performed her duties diligently and to the best of her abilities. She has shown a great level of dedication, hard work, and enthusiasm while working on various assignments. Her ability to work both independently and in a team environment has been impressive and appreciated by all team members.

Throughout the internship, Khushbu Chhadva has shown great professionalism and her behavior has been exemplary. She has demonstrated excellent communication skills, a positive attitude and the ability to adapt to new situations quickly.

Based on her performance, I highly recommend Khushbu Chhadva for any future academic or professional pursuits. It has been a pleasure having her as an intern at Shree Bhandup Gujarati Seva Mandal.

Please do not hesitate to contact me if you have any further questions or require additional information.

Signature:

Name: Harshit Dand

Designation: Assistant Manager

Contact number: +91 8879288658

Email: harshitdand@gmail.com



(seal of the organization)



## FIN RISE SOFTECH

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### Certificate of Internship

This is to certify that Ms. Anova Radhakrishnan of SIES College of Arts Science and Commerce (Autonomous), Sion (West), Mumbai-22 College/Institution worked as a UI/UX Designer Intern as part of her MSc course in Computer Science of University of Mumbai. The particulars of internship are given below:

**Internship Start Date:** January 16, 2023

**Internship End Date:** March 31, 2023

**Actual Number of Days Worked:** 75

**Tentative Number of Hours Worked:** 600

**Broad Area of Work:** Researching, Designing web and mobile application

**A small description of work done by the intern during the period:**

Designing and enhancing the user interface and experience of Finrise Softech's software products or website was probably part of the work. This could entail activities including gathering user feedback, making wireframes and prototypes, designing user interfaces, and working with programmers to make sure the designs are executed properly. We also conducted usability tests and received user input to enhance the design. In the end, my job was to make sure that users could engage with the product in the most fun, effective, and intuitive ways possible.

**Signature:**



**Name:** Deepak Tiwary

**Designation:** President Technology

**Email:** [deepak.tiwari@finrisesoftech.com](mailto:deepak.tiwari@finrisesoftech.com)

---

Finrise Softech, Unit No.1501, E-Wing, Lotus Corporate Park, Off. Western Express Highway,  
Goregaon (East), Mumbai-400063  
DH-022 40141743



## Professional Evaluation of Intern

**Name of the Intern:** Anova Radhakrishnan

**College/Institution:** SIES College of Arts, Science and Commerce (Autonomous), Sion (West),  
Mumbai-22

[Note: Give a score in the 1-5 scale by putting √ in the respective cells]

Sr No	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance	√				
2	Punctuality	√				
3	Adaptability		√			
4	Ability to shoulder responsibility			√		
5	Ability to work in a team		√			
6	Written and oral communication skills	√				
7	Problem solving skills		√			
8	Ability to grasp new concepts			√		
9	Ability to complete task	√				
10	Quality of work done	√				





## FIN RISE SOFTECH

---

**Comments:**

Anova was able to grasp business requirements and was able to deliver results on time. Anova's contribution in building design for Cosmic Trades using Figma has helped us gain some valuable insights. She has also contributed in redesigning the website at appropriate junctures.

**Signature:**



**Name:** Deepak Tiwary

**Designation:** President Technology

**Email:** [deepak.tiwari@finrisesoftech.com](mailto:deepak.tiwari@finrisesoftech.com)

# NUTPAM TECHNOLOGIES



Nutpam

## ONLINE INTERNSHIP CERTIFICATE

This is to certify that PREM SANTOSH CHIKANE  
Son / Daughter of SANTOSH DYANESHWAR CHIKANE  
Student of SIES College of Arts, Science and Commerce, Mumbai  
has successfully completed online internship program on  
Android application development  
conducted by us for a period of Two months from 22.02.2023  
to 22.04.2023.



Head

Nutpam Technologies

#8 I33 D4, Kamarajar Puthur, Aralvaimozhi, Kanniya kumari District, Tamilnadu-629301, India.

Email: [nutpamindia@gmail.com](mailto:nutpamindia@gmail.com)

Whatsapp: 6374986280

Web: [nutpamtech.in](http://nutpamtech.in)



Scanned with OKEN Scanner



**NUTPAM**  
TECHNOLOGIES

Ref : Tech/Internship/2023/02

21 February 2023

To :

PREM SANTOSH CHIKANE,  
Department of Computer Science,  
SIES College of Arts, Science and Commerce,  
Mumbai 400 022.

Dear PREM SANTOSH CHIKANE,

Greetings from Nutpam Technologies!!

We are pleased to inform you that you have been shortlisted as an Android application development intern.

Here are the terms of internship while working with the Company:

1. Duration of internship will be from 22.02.2023 to 22.04.2023.
2. As you will be receiving academic credit for this position, you will not be paid. Additionally, students do not receive benefits as part of their internship program.
3. For this position, your major duties will include  
*Design and development of Android applications based on client requirements.*  
*Creating User Interface design for Attendance System application.*
4. From time to time, your performance will be evaluated.
5. During internship, you are expected to abide Code of Conduct prescribed by the Company for all the employees.

Please feel free to contact us in case of further details. Wishing you good luck for your future endeavors.

**A. Neelabai**  
Head

#8 133 D4, Kamarajar Puthur, Aralvaimozhi, Kanniyakumari District, Tamilnadu-629301, India.

+91-6374986280

nutpamtech@gmail.com

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## INTERNSHIP CERTIFICATE

This Certificate is proudly presented to

**Sheetal GovardhanRam Dhiman**

In appreciation for successful completion of Live project for Betr Tech Private Limited.  
She had undergone her internship in our organization 7Classes as an UI/UX Design Intern  
from December 28, 2022 to March 28, 2023.



(seal of the organization)



A handwritten signature in black ink that reads 'Ranjan Kumar'.

**Ranjan Kumar**  
Co-Founder & CPTO



Date: April 07, 2023

## Completion Letter


This is to certify that **Ms. Sheetal Govardhan Ram Dhiman** has successfully completed the UI/UX Internship Program at **7Classes (BETR TECH PRIVATE LIMITED)**, an Ed-tech company, from **December 28, 2022 to March 28, 2023**.

Sheetal worked on both a website and a mobile application during the course of her internship. She performed user research and modified multiple elements of the website. She also contributed to our mobile application InstaPreps - The Confidence App by designing and enhancing the app's visual look while conserving user accessibility.

She has shown extensive experience in using industry-standard design tools such as **Figma** and **Adobe Creative Suite**. She has also gained valuable experience in designing wireframes, creating user interfaces, and conducting user testing.

She has exhibited excellent communication and teamwork skills, working collaboratively with other designers and developers in the company and has shown dedication, creativity, and a willingness to learn, which have all contributed to her successful completion of the internship.

We congratulate Sheetal on this achievement and wish her all the best for her future endeavors.

Signature: 

Name: Ranjan Kumar  
Designation: Co-Founder & CPTO  
Contact number: 9167937304  
Email: [ranjan@7classes.com](mailto:ranjan@7classes.com)



(Seal of the organization)

## Certificate of Internship

This is to certify that **Mr. Ennippissery Anurag Ramesh** of **SIES College of Arts Science and Commerce (Autonomous), Sion (West), Mumbai-22** College/Institution worked as a **Full Stack Web Development Intern** as part of his MSc course in Computer Science of University of Mumbai. The particulars of internship are given below:

**Internship Start Date:** February 1, 2023  
**Internship End Date:** April 25, 2023  
**Actual Number of Days Worked:** 63  
**Tentative Number of Hours worked:** 450  
**Broad Area of Work:** Web Development

A small description of work done by the intern during the period:

Anurag was fortunate to receive excellent training and mentorship in building web applications using the MERN stack. The comprehensive training involved learning various cutting-edge technologies such as MongoDB, Express, React, and Node.js and applying them to develop a full-stack web application. During the training, Anurag was given opportunities to work on different aspects of the application, including front-end design, back-end development, and database management. With the expert guidance and support from his supervisor, Anurag was able to develop a fully functional web application that boasted features such as user authentication, post creation, commenting, and voting. The internship provided Anurag with an invaluable learning experience in creating responsive web applications.

Signature:



**Name:** Shradha Adekar

**Designation:** HR

**Email:** training@nullclass.com



# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

This is to certify that Mr. Shubham Gawde of SIES College of Arts, Science and Commerce (Autonomous) college worked as an intern as part of his M.Sc. course in Computer Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: Jan 2, 2023

Internship ending date: March 31, 2023

Actual number of days worked: 60 days

Actual working hour of per day: 8 hours

Tentative numbers of hours worked: 480 hours

Broad area of work: Cyber Security Intern

**A small description of work done by the intern during the period:**

- Conducting vulnerability assessments and penetration testing
- Monitoring and responding to security alerts
- Conducting security research and analysis
- Participating in incident response activities
- Supporting the implementation of security policies and procedures
- Assisting in the maintenance and configuration of security systems and tools

For ORYX INFORMATION TECHNOLOGIES



Proprietor

Oryx Information Technologies  
Sign Of Authority

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.





## Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

Dear Shubham Gawde,

I am pleased to certify that Shubham Gawde has successfully completed the Cyber Security Internship program at Oryx Information Technologies. The internship was started on 2<sup>nd</sup> Jan 2023 and ended on 31<sup>st</sup> March 2023.

During the internship, Shubham Gawde has worked diligently and has demonstrated an impressive level of skill and knowledge in various aspects of cybersecurity. He has shown a strong understanding of cybersecurity principles, tools, and techniques, and has applied this knowledge to various projects assigned during the internship.

Shubham Gawde has also demonstrated strong teamwork and communication skills, working collaboratively with other interns and colleagues. He was always eager to learn and took initiatives to expand his knowledge in the field of cybersecurity.

Overall, Shubham Gawde has shown excellent performance and commitment during the internship. He has completed all the assigned tasks on time and with high quality, and has made a positive contribution to the cybersecurity team at Oryx Information Technologies.

I highly recommend Shubham Gawde for any future opportunities in the field of cybersecurity. He has the potential to become a valuable asset to any organization in this field.

Sincerely,

For ORYX INFORMATION TECHNOLOGIES

Oryx Information Technologies  
Sign Of Authority

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.





# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

Dear Shubham Shankar Gawde,

We are pleased to offer you the position of Cybersecurity Intern at Oryx Information Technologies. We were impressed with your experience and skills in the cybersecurity field, as well as your enthusiasm to learn and grow with our team. We are confident that you will make a valuable contribution to our company.

The details of your internship are as follows:

Position: Cyber Security Intern

Start date: 02/01/2023

End date: 31/03/2023

Location: Remote work

During your internship, you will work with our cybersecurity team to assist in a variety of tasks including but not limited to

- Conducting vulnerability assessments and penetration testing
- Monitoring and responding to security alerts
- Conducting security research and analysis
- Participating in incident response activities
- Supporting the implementation of security policies and procedures
- Assisting in the maintenance and configuration of security systems and tools

We believe that this internship will provide you with valuable experience and knowledge in the cybersecurity field, and we are committed to providing you with the support and resources necessary to succeed in your role.

If you have any questions or concerns, please do not hesitate to contact us.

We look forward to welcoming you to our team.

Sincerely,

For ORYX INFORMATION TECHNOLOGIES



Proprietor

Oryx Information Technologies  
Sign Of Authority



HDB Financial Services Limited  
Ground Floor, Zenith House,  
Keshavrao Khadye Marg,  
Opp. Race Course, Mahafaxmi  
Mumbai - 400034,  
Tel : 022 - 39586300  
Fax : 022 - 39586666  
Web : www.hdbfs.com  
CIN - U65993GJ2007PLC051028  
Email : compliance@hdbfs.com

April 20, 2023

To whom so ever it may concern

This is to confirm that Mr. Somesh Kadam was selected for Summer Internship with HDB Financial Services Ltd., from December 19, 2022 to June 19, 2023 for "Data leakage prevention technology, Phishing activities, PIM server logs review" Projects under Mr. Rahul Sutar - Senior Manager - Information Security and Governance.

This letter is being issued to him on his request for the purpose of submit the same into his College.

Yours sincerely,

For **HDB Financial Services Ltd.**

**Ashish Ghatnekar**  
**Head - Human Resources**

Registered Office : Radhika, 2nd Floor, Law Garden Road, Navrangpura, Ahmedabad - 380 009.

**Internship report**  
**HDB Financial services limited**

Internship Start Date: December 19, 2022 Internship End Date: June 19, 2023

Actual Number of Days Worked: 108

Tentative Number of Hours worked: 804

Broad Area of Work: DLP technology, Phishing activities, PIM server logs review.

Description of work done by the intern during the period:

Data leakage prevention

Email DLP Monitoring, Incident response, Alert Investigation, Report preparation and Policy Creation

Phishing Activity

Preparing Phishing Templates and seeking approval from CISO and CTO.

Run the activity 2 times in each quarter

Prepare tracker for violations

Coordinating with HR with violated employees training and maintaining official records.

PIM logs Review

Review of PIM server video logs.

Note down the findings and share it with management.

## **Certificate of Internship**

This is to certify that **Ms. Saranya Muralidharan** of **S.I.E.S College of Arts, Science and Commerce Sion(W), Mumbai – 400 022**. College/Institution worked as an **Web Development Intern** as part of her MSc course in Computer Science of SIES College of Arts, Science & Commerce, Sion(West) (Autonomous) . The particulars of internship are given below:

**Internship starting date:** February 1, 2023

**Internship ending date:** May 1, 2023

**Actual number of days worked:** 48

**Tentative number of hours worked:** 384 Hours

**Broad area of work:** Web Development

**A small description of work done by the intern during the period:**

Saranya has successfully completed online training on Web Development and real time project training on Learn To Build a Real Time Website Like StackOverflow-MERN Stack. She has participated successfully in all the tasks given to her and accomplished all the skills required for the tasks, throughout which she was able to show case her great work ethics, and team player skills.



**Signature:**

**Name:** Shradha Adegkar

**Designation:** HR

**Email:** [training@nullclass.com](mailto:training@nullclass.com)







Full of Tech Senses

## EXPERIENCE CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Master. Shuvo Mondal** of SIES College of Arts, Science, and Commerce, Navi Mumbai has worked as an **intern** with **ITechMentor**, the particulars of the internship are given below:

Internship starting date: **05th December 2022**

Internship ending date: **11th March 2023**

Internship Period: **3 Months**

Tentative number of hours worked: **180 Hours**

During his internship, he was exposed to various web scrapping and backend development activities dealing with Python, Nodejs, and MySQL. He has completed the task and is responsible for integrating appWrite into our backend.

He was extremely consistent and curious, in our opinion. He had a strong desire to understand the workings of our central system and was prepared to put in his best effort and look deeply into the material in order to do so.

His collaboration with us has been extremely beneficial, and we wish him the best of luck in his future objectives.



For ITechMentor

Name: Sunil Bengade  
Designation: Founder and CEO  
Contact number: +91 9152107447  
Email: itechmentorofficial@gmail.com

For I Tech Mentor  
(seal of the organization)

Proprietor

ITechMentor, F-26 A, Haware centurion mall, Haware Mall, Nerul East,  
Sector 19A, Nerul, Navi Mumbai, Maharashtra 400706

[contact@itechmentor.com](mailto:contact@itechmentor.com) | +91 9152107447 | [www.itechmentor.com](http://www.itechmentor.com)



## SLASHRTC SOFTWARE SERVICES PRIVATE LIMITED

Date: 1<sup>st</sup> Apr' 2023

### LETTER OF INTERNSHIP

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Muthu Selvam Kamaraj** has completed a three-months internship at Slashrtc Software Services Pvt Ltd. The duration of internship was from 26<sup>th</sup> Oct'2022 till 30<sup>th</sup> Mar'2023 as a **Software Developer Intern**.

His role was to familiarize himself with all the processes at the organization. He spent a significant amount of time in L3 department. During this internship he has been found to be dedicated and hardworking.

We hope his time spent at Slashrtc Software Services Pvt Ltd. was fruitful. We wish him all the success in his future endeavors.

For SlashRTC Software Services Private Limited.



(Authorized Signatory)

---

CIN: U74999MH2016PTC288545

Address: Boomerang, B 1-006, B Wing, Chandivali Farm Road,  
Powai, Andheri East, Mumbai - 400 072

Web: [www.slashrtc.com](http://www.slashrtc.com), Email: [info@slashrtc.com](mailto:info@slashrtc.com),

Contact No.: +91-704-515-4320, +91-876-717-1405



## Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

Dear Yash Nar,

I am pleased to certify that Yash Nar has successfully completed the Cyber Security Internship program at Oryx Information Technologies. The internship was started on 2<sup>nd</sup> Jan 2023 and ended on 31<sup>st</sup> March 2023.

During the internship, Yash Nar has worked diligently and has demonstrated an impressive level of skill and knowledge in various aspects of cybersecurity. He has shown a strong understanding of cybersecurity principles, tools, and techniques, and has applied this knowledge to various projects assigned during the internship.

Yash Nar has also demonstrated strong teamwork and communication skills, working collaboratively with other interns and colleagues. He was always eager to learn and took initiatives to expand his knowledge in the field of cybersecurity.

Overall, Yash Nar has shown excellent performance and commitment during the internship. He has completed all the assigned tasks on time and with high quality, and has made a positive contribution to the cybersecurity team at Oryx Information Technologies.

I highly recommend Yash Nar for any future opportunities in the field of cybersecurity. He has the potential to become a valuable asset to any organization in this field.

Sincerely,

For ORYX INFORMATION TECHNOLOGIES



Proprietor

**Oryx Information Technologies**  
**Sign Of Authority**

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.



# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

This is to certify that Mr. Yash Nar of SIES College of Arts, Science and Commerce (Autonomous) college worked as an intern as part of his M.Sc. course in Computer Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: Jan 2, 2023

Internship ending date: March 31, 2023

Actual number of days worked: 60 days

Actual working hour of per day: 8 hours

Tentative numbers of hours worked: 480 hours

Broad area of work: Cyber Security Intern

**A small description of work done by the intern during the period:**

- Conducting vulnerability assessments and penetration testing
- Monitoring and responding to security alerts
- Conducting security research and analysis
- Participating in incident response activities
- Supporting the implementation of security policies and procedures
- Assisting in the maintenance and configuration of security systems and tools

For ORYX INFORMATION TECHNOLOGIES

Proprietor

**Oryx Information Technologies**  
**Sign Of Authority**

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.





# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

## Professional Evaluation of Intern

Name of Intern: **Mr. Yash Nar**

College/Institution: **SIES College of Arts, Science and Commerce (Autonomous)**

[Note: Give a score in the 1-5 scale by putting ✓ in the respective cells]

Sr. No.	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance	✓				
2	Punctuality	✓				
3	Adaptability		✓			
4	Ability to shoulder responsibility		✓			
5	Ability to work in a team		✓			
6	Written and oral Communication skills		✓			
7	Problem solving skills		✓			
8	Ability to grasp new concepts		✓			
9	Ability to complete task	✓				
10	Quality of work done	✓				

### Comments:

I give my highest recommendation and wish him great success for the future. He has the creative capability to become a great Cyber Security Consultant and be an asset for any organization he continues his career with.

For ORYX INFORMATION TECHNOLOGIES

Proprietor

**Oryx Information Technologies**  
**Sign Of Authority**

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.



April 1 2023

**Subject: Internship Completion Letter**

We are glad to inform that **Mr. Adnankhan Arifkhan Pathan** from **SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai**, has successfully completed his internship as a **Web Developer** at **Citygriti Management Services (OPC) Pvt. Ltd.** from **January 30, 2023 to March 30, 2023**.

During his internship, he was exposed to various web development activities dealing with **PHP and MySQL**. He has developed a website that **allows professor to upload their notes or books to our portal from where students can download and study from it.**

We found him extraordinarily curious and hard working. He was very much interested to learn the functions of our core system and also willing to put his best efforts and get into the depth of the subject to understand it better.

His association with us has been very fruitful and we wish him great success in his future endeavours.



**CityGriti Management Services**  
**Sign Of Authority**

**CIN - U74999MH2019OPC323438**

1904, Crimson Tower, Lokhandwala Township, Akurli Rd., Kandivali East , Mumbai – 400 101  
Mobile: +91 83084 80084 | Email Id - zia@citygriti.com | Website - [www.citygriti.com](http://www.citygriti.com)

**MANAGEMENT SOLUTIONS FOR PEACEFUL HABITATIONS**

## Appendix 1

(Proforma for the certificate for internship in official letter head)

This is to certify that **Mr. Adnankhan Arifkhan Pathan** of **SIES College of Arts, Science and Commerce (Autonomous)** college worked as an intern as part of his M.Sc. course in Computer Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: January 30, 2023

Internship ending date: March 30, 2023

Actual number of days worked: 60 days

Actual working hour of per day: 8 hours

Tentative numbers of hours worked: 416 hours

Broad area of work: Web Development

A small description of work done by the intern during the period:

- Write custom HTML, PHP, CSS and JavaScript for websites and applications.
- Design, recommend and pitch improvements to new and existing features.
- Assist in troubleshooting issues on web-based systems.
- Update and edit website content, posts and pages.
- Provide technical support related to web-based systems to internal teams.
- Test and give feedback on new and existing technologies.
- Create prototypes and experiment with new technologies and features as assigned.



**CityGriti Management Services**

**Sign Of Authority**

## Appendix 2

(Proforma for the Evaluation of the intern by the supervisor/to whom the intern was reporting in the organization)

### Professional Evaluation of Intern

Name of Intern: **Mr. Adnankhan Arifkhan Pathan**

College Institution: **SIES College of Arts, Science and Commerce (Autonomous)**

[Note: Give a score in the 1-5 scale by putting ✓ in the respective cells]

Sr. No.	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance		✓			
2	Punctuality	✓				
3	Adaptability		✓			
4	Ability to shoulder responsibility		✓			
5	Ability to work in a team		✓			
6	Written and oral Communication skills		✓			
7	Problem solving skills		✓			
8	Ability to grasp new concepts		✓			
9	Ability to complete task		✓			
10	Quality of work done	✓				

Comments:

I give my highest recommendation and wish him great success for the future. He has the creative capability to become a great Web Developer and be an asset for any organization he continues his career with.



**CityGriti Management Services**

**Sign Of Authority**



## Certificate of Internship

This is to certify that Mr. Pathan Walid Khalid of SIES College of Arts Science and Commerce (Autonomous), Sion (West), Mumbai-22 College/Institution worked as a Full Stack Web Development Intern as part of his MSc course in Computer Science of University of Mumbai. The particulars of internship are given below:

**Internship Start Date:** March 2, 2023

**Internship End Date:** May 2, 2023

**Actual Number of Days Worked:** 62

**Tentative Number of Hours worked:** 450

**Broad Area of Work:** Web Development

### **A small description of work done by the intern during the period:**

Walid had the good fortune to obtain top-notch instruction and guidance in creating web applications utilizing the MERN stack. A full-stack web application was developed using a variety of cutting-edge technologies, including MongoDB, Express, React, and Node.js, which were all covered in the extensive course. Walid had the chance to work on several facets of the application during the training, including database management, front-end design, and back-end development. Walid was able to create a completely functional web application with features like user log in, post creation, commenting, and voting thanks to his manager's instruction and support. Walid gained invaluable experience building responsive web applications during his internship.

**Signature:**



**Name :** Shradha Adekar

**Designation :** HR

**Email :** training@nullclass.com

### Professional Evaluation of Intern

**Name of the Intern:** Pathan Walid Khalid

**College/Institution:** SIES College of Arts, Science and  
Commerce(Autonomous), Sion (West), Mumbai-22

[Note: Give a score in the 1-5 scale by putting √ in the respective cells]

Sr No	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance		√			
2	Punctuality		√			
3	Adaptability			√		
4	Ability to shoulder responsibility			√		
5	Ability to work in a team		√			
6	Written and oral communication skills			√		
7	Problem solving skills			√		
8	Ability to grasp new concepts	√				
9	Ability to complete task			√		
10	Quality of work done			√		

**Signature:**

**Name :** Shradha Adekar

**Designation :** HR

**Email :** training@nullclass.com



# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

Dear Vinit Poojary,

I am pleased to certify that Vinit Poojary has successfully completed the Cyber Security Internship program at Oryx Information Technologies. The internship was started on 2<sup>nd</sup> Jan 2023 and ended on 31<sup>st</sup> March 2023.

During the internship, Vinit Poojary has worked diligently and has demonstrated an impressive level of skill and knowledge in various aspects of cybersecurity. He has shown a strong understanding of cybersecurity principles, tools, and techniques, and has applied this knowledge to various projects assigned during the internship.

Vinit Poojary has also demonstrated strong teamwork and communication skills, working collaboratively with other interns and colleagues. He was always eager to learn and took initiatives to expand his knowledge in the field of cybersecurity.

Overall, Vinit Poojary has shown excellent performance and commitment during the internship. He has completed all the assigned tasks on time and with high quality, and has made a positive contribution to the cybersecurity team at Oryx Information Technologies.

I highly recommend Vinit Poojary for any future opportunities in the field of cybersecurity. He has the potential to become a valuable asset to any organization in this field.

Sincerely,

For ORYX INFORMATION TECHNOLOGIES

Proprietor

**Oryx Information Technologies**  
**Sign Of Authority**

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.



# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

This is to certify that Mr. Vinit Poojary of SIES College of Arts, Science and Commerce (Autonomous) college worked as an intern as part of his M.Sc. course in Computer Science of University of Mumbai. The particulars of internship are given below:

Internship starting date: Jan 2, 2023

Internship ending date: March 31, 2023

Actual number of days worked: 60 days

Actual working hour of per day: 8 hours

Tentative numbers of hours worked: 480 hours

Broad area of work: Cyber Security Intern

**A small description of work done by the intern during the period:**

- Conducting vulnerability assessments and penetration testing
- Monitoring and responding to security alerts
- Conducting security research and analysis
- Participating in incident response activities
- Supporting the implementation of security policies and procedures
- Assisting in the maintenance and configuration of security systems and tools

For ORYX INFORMATION TECHNOLOGIES



Proprietor

**Oryx Information Technologies  
Sign Of Authority**

📍 Address: C7, Madina House CHS Ltd. 3rd Floor, Amrut Nagar, Jogeshwari West, Mumbai 400102.





# Oryx Information Technologies

✉ Email: shaikh\_shameem@hotmail.com

☎ Phone: +91 7977908004

## Professional Evaluation of Intern

Name of Intern: **Mr. Vinit Poojary**

College/Institution: **SIES College of Arts, Science and Commerce  
(Autonomous)**

[Note: Give a score in the 1-5 scale by putting ✓ in the respective cells]

Sr. No.	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance	✓				
2	Punctuality	✓				
3	Adaptability		✓			
4	Ability to shoulder responsibility		✓			
5	Ability to work in a team		✓			
6	Written and oral Communication skills		✓			
7	Problem solving skills		✓			
8	Ability to grasp new concepts		✓			
9	Ability to complete task	✓				
10	Quality of work done	✓				

### Comments:

I give my highest recommendation and wish him great success for the future. He has the creative capability to become a great Cyber Security Consultant and be an asset for any organization he continues his career with.

For ORYX INFORMATION TECHNOLOGIES

Proprietor

**Oryx Information Technologies**  
**Sign Of Authority**

## **CERTIFICATE OF INETRNSHIP:**

This is to certify that **Mr. Joseph Simon** of **SIES college of arts science and commerce** worked as an intern at **CEROHUB PVT LTD** as part of her MSc course in Computer Science of University of Mumbai. The particulars of internship are given below:

**Internship starting date:** 05-02-2023

**Internship ending date:** 05-05-2023

**Actual number of days worked:** 70 days

**Tentative number of hours worked:** 600 Hours

**Broad area of work:** Security Researcher

Signature:



For CEROHUB PVT LTD.

Authorized Signatory

(Seal of Organization)

Name: DIPANSHU PARASHAR

Designation: CEO

Email: [dipanshuparashar@protonmail.com](mailto:dipanshuparashar@protonmail.com).

### Professional Evaluation of intern

Name of intern: Joseph Simon

College/institution: SIES College of Arts, Science and Commerce (Autonomous), Sion (West),

Mumbai-22

[Note: Give a score in the 1-5 scale by putting v in the respective cells]

SR NO.	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1.	Attendance	v				
2.	Punctuality		v			
3.	Adaptability		v			
4.	Ability to shoulder responsibility	v				
5.	Ability to work in a team		v			
6.	Written and oral communication skill	v				
7.	Problem Solving skills			v		
8.	Ability to grasp new concepts		v			
9.	Ability to complete tasks	v				
10.	Quality of work	v				

**Comments:**

Joseph is a very capable and professional individual and has been a great asset to the company. He is a quick learner and curious to learn new things he was able to grasp business requirements and was able to deliver results on time.

Some of Joseph's contribution as a Security Researcher in VIRTUAL CYBER LABS include setting up labs and monitoring logs on IBM Qradar, ELK Stack etc., Researching and Documenting on the relevant tools and skillsets to have as an Ethical hacker, looking for vulnerabilities in applications. He has a very promising career ahead.

**Signature:**



For CEROHUP PVT LTD.

Authorized Signatory

(Seal of Organization)

Name: DIPANSHU PARASHAR

Designation: CEO

Email: [dipanshuparashar@protonmail.com](mailto:dipanshuparashar@protonmail.com).



INOVANT SOLUTIONS FOR WEBSITES PVT. LTD.



Date: 04th April 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Bala Vignesh, a student of MSc Computer Science - Part II, SIES College, Sion has successfully completed 120 days (03rd December 2022 to 03th April 2023) long internship programme as an Android Developer at Inovant Solutions.

During this period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish you best of luck for your future endeavors.

Sincerely,

**INOVANT SOLUTIONS**

For Inovant Solutions For Websites Pvt. Ltd.

*Rehan Wangde*  
Authorized Signatory

**Mr. Rehan Wangde**



G-Square Business Park, opp. Sarpada Railway Station Road, Sector 30A, Vashi, Navi Mumbai, 400703

## Certificate of Internship

This is to certify that **Mr. Ankit Salian** of **SIES College of Arts Science and Commerce (Autonomous), Sion (West), Mumbai-22** College/Institution worked as a **Full Stack Web Development Intern** as part of his MSc course in Computer Science of University of Mumbai. The particulars of internship are given below:

**Internship Start Date:** February 25, 2023  
**Internship End Date:** April 26, 2023  
**Actual Number of Days Worked:** 45  
**Tentative Number of Hours worked:** 315  
**Broad Area of Work:** Web Development

### **A small description of work done by the intern during the period:**

Ankit was trained on building web applications using the MERN stack. The training involved learning various technologies such as MongoDB, Express, React, and Node.js and applying them to develop a full-stack web application. During the training, Ankit worked on various aspects of the application, including front-end design, back-end development, and database management. With the help of training lectures and guidance from his supervisor, Ankit was able to develop a fully functional web application that featured features such as user authentication, post creation, commenting and voting.

**Signature:**

**Name:** Shraddha Adegkar  
**Designation:** HR  
**Email:** training@nullclass.com



## INDIAN WOMEN SCIENTISTS' ASSOCIATION

Plot No. 20, Sector 10A, Vashi, Navi Mumbai 400703  
Tel. No.: 022 - 27661806, 022 - 27662136  
iwsahq@gmail.com | www.iwsa.net

### Appendix 1

(Proforma for the certificate for internship in official letter head)

This is to certify that Ms. Shetiya Archana veluswamy of SIES College/Institution worked as an intern as part of her M.Sc course in Computer Science of SIES College of Arts, Science & Commerce, Sion(West) (Autonomous).  
The particulars of internship are given below:

Internship starting date: 4<sup>th</sup> July 2022

Internship ending date: 28<sup>th</sup> February 2023

Actual number of days worked: 172

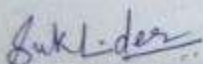
Tentative number of hours worked: 602 Hours

Broad area of work:

- > Worked as a Teacher for teaching computer applications
- > Data entry for keeping the records of Life members of IWSA
- > Scheduling the plans for the courses.
- > Making notes for the students as per the syllabus
- > Making test papers for evaluation of the students
- > Keeping the records of the performance of the students.

A small description of work done by the intern during the period:

She was fully involved in preparing, scheduling and executing syllabus for training IT classes. She was also maintaining the data for the attendance as well as records of the students development of the subject in the class. Archana was in charge of handling group of 26 teachers who were taking IT training under her. She also trained school students as well as adults from the age of 20 to 70 years. Along with notes she was giving hand on practice to all the students. Their performance was recorded by observation, participation in the class and chapter wise written and practical tests.

Signature:   
Name: Ms. Sukhvinder Sandhu  
Designation: Convenor of Computer Centre, IWSA and Mentor  
Contact number: 9821634591  
Email: [vinisandhu@gmail.com](mailto:vinisandhu@gmail.com)  
(seal of the organization)

**Convenor**  
IWSA, Computer Center  
Plot No. 20, Sector 10A, Vashi  
Phone :- 289 7357

1

## Appendix 2

(Proforma for the Evaluation of the intern by the supervisor/to whom the intern was reporting in the organization)

### Professional Evaluation of intern

Name of intern: Ms. Shetiyar Archana Veluswamy

College/institution: SIES College of Arts, Science and Commerce,  
Sion West. (Autonomous)

[Note: Give a score in the 1-5 scale by putting √ in the respective cells]

Sr No	Particular	Excellent	Very Good	Good	Moderate	Satisfactory
1	Attendance			√		
2	Punctuality	√				
3	Adaptability			√		
4	Ability to shoulder responsibility	√				
5	Ability to work in a team	√				
6	Written and oral communication skills			√		
7	Problem solving skills	√				
8	Ability to grasp new concepts	√				
9	Ability to complete task	√				
10	Quality of work done	√				



Comments:

Great job done by Archana Shetiyar on this project. I was impressed by Archana's attention to details and her ability to meet all the deadlines.

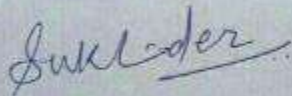
She has done an excellent job on this report.

Archana research was thorough, and her writing was clear and concise.

Archana Shetiyar is a very responsible person. Once she commits something she is found to be completing her task in the specific time allotted.

Archana can definitely improve in her speaking skills in English and develop more confidence while taking over the class.

Signature:



Name:

Ms. Sukhvinder Sandhu

Designation:

Convenor of Computer Centre, IWSA and Mentor

Contact number:

9821634591

Email:

vinisandhu@gmail.com

(seal of the organization)

**Convenor**  
IWSA, Computer Centre  
Plot No. 20, Sector 10A, Vashi  
Phone :- 789 7357

Registration Number

137504

## MADRAS SCIENTIFIC RESEARCH FOUNDATION

NO.1, DHARMARAJA STREET SRINIVASAPURAM,  
GUDUVANCHERY KANCHEEPURAM  
TN -603202, INDIA

### INTERNSHIP CERTIFICATE

Date: 02.04.2023

Certificate number: 2023TS005071

This certificate is rewarded to

**Abhishek Dinesh Yadav**

From Mumbai University

Upon successful completion of Research Fellow Internship

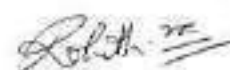
With Madras Scientific Research Foundation

From 12th January 2023 to 26th March 2023

Responsibility of the candidate includes:

1. Participate in training sessions in accordance with the designated module guidelines
2. Evaluate metrics to help improve our productivity
3. Implementing machine learning algorithms
4. Preparing & analysing data and identifying patterns
5. Researching solutions from machine learning papers and journals
6. Weekly report preparation and submission to the Mentor

**We wish you all the best for your future endeavours!**



**Rohith JK**  
Managing Director

[www.madrasresearch.org](http://www.madrasresearch.org)





Date: 01/09/2022

**To whomsoever it may concern**

This is to certify that Aditya Abhinav Sharma has worked as an intern in our organization, JND Foods & Drinks LLP, a food start-up.

Aditya helped us with reconciliation of payments and pricing strategies. He is a responsible and dedicated individual and has contributed positively to our company during his tenure of 1 month.

For any further queries please contact me, Disha Doctor at 9820711126.

Name: Disha Doctor

Designation: Director

Company name: JND Foods & Drinks LLP



**TO WHOMEVER IT MAY CONCERN**

This is to certify that Ms. Bhagyashwari parchratan jaiswal from SIES College of Arts & Commerce, Sion Mumbai has successfully completed her internship with us in Finance (Accounts Department) from 1<sup>st</sup> September 2022 to 20/09/2022 completing around 120 hours.

During the internship she demonstrated good skill with a self-motivated attitude to learn new things. Her performance exceeded expectation and was able to complete the allotted work within the given timeframe.

Thanking You,

For S W Khan and Co.  
Chartered Accountants

CA Sadique Khan  
Proprietor  
Place: Mumbai  
Date: 20/09/2022





September 30, 2022

Swaroop Iyer  
Mumbai

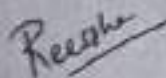
**To whomsoever it may concern**

This is to certify that Mr. Swaroop Iyer has successfully completed his internship with Baroda BNP Paribas Asset Management India Pvt Limited. The internship period started from July 19, 2022, till September 30, 2022. He was supporting to the Investment department as an Intern.

The conduct of the intern was found to be good during the said period.

We wish him all the best for his future endeavors.

**Baroda BNP Paribas Asset Management India Pvt Limited**



**Reesha Chughh**  
Head – Human Resources



**Date: 21<sup>st</sup> October, 2022**

**Internship Completion Letter**

**TO WHOMSOEVER IT MAY CONCERN**

This letter is to certify that **Ms. Purva Berde** has successfully completed her Social Media Marketing and Finance internship program of 3 months with **Kivo Solutions Private Limited (Registered name of Savage & Palmer)**. Her internship tenure was from 18<sup>th</sup> July, 2022 to 21<sup>st</sup> October, 2022.

She was working closely under the supervision of the Social Media Director of the Company wherein her core responsibilities were coming up with creative marketing campaigns and post concepts, writing SEO blogs and handling the social media accounts of a few of our clients along with handling of client payments and invoice related query resolution.

During her span, we found her to be confident, persistent and hardworking. Her swift learning skills and friendly charm had a positive impact on the project and her colleagues.

We wish her all the best for her future endeavors.

Yours sincerely,

**Divyaa N Sakpal**

**HR and Operations Manager**

**9769925750**

**For Kivo Solutions Private Limited**



Shop No.03, Baba Shristi CHSL, Plot no.37, Sector -44A, Seawoods, Navi Mumbai - 400706.

## CERTIFICATE OF INTERNSHIP

THIS CERTIFICATE IS AWARDED TO

**ANUPAMA SANJAY KAMBLE**

IN APPRECIATION OF YOUR CONTRIBUTION AND  
DEDICATION TO OUR COMPANY AS FINANCE  
INTERN AT OUR ESTEEMED ORGANISATION FROM  
10<sup>TH</sup> OCT, 2022 TO 10<sup>TH</sup> NOV, 2022



\_\_\_\_\_  
**SRINIVAS JHA**





Ketto Online Ventures Private Limited

Office No. 1302-1306, Peninsula Park, Veera Desai Road, Andheri West, Mumbai -400053, Maharashtra

Tel.: 022 65702567 CIN:U74900MH2012PTC238738

## **Certificate for Internship**

This internship program certificate is proudly awarded to

**Kim Pereira**

For her outstanding completion of the Internship program from at  
Ketto Online Ventures Private Limited from September 2022 to  
November 2022.

For Ketto Online Ventures Pvt Ltd

---

**VARUN SHETH**

Director Ketto



# VIBGYOR ADVICORP PRIVATE LIMITED

202, Shivai Dongre Industrial Estate, Saki Naka, Andheri Kurla Road, Andheri East, Mumbai 400072

Email ID : neemasachin@gmail.com , Mobile No. 9833224447

CIN : U93090MH2016PTC288153

## CERTIFICATE OF INTERNSHIP

This CERTIFICATE IS AWARDED TO

**Zarna Ramani**

In appreciation of your contribution and dedication to our company as a **Finance Intern** at Vibgyor Advicorp Private Limited, from 19th July 2022 to 19th August 2022.

**Sachin Neema**

CEO & FOUNDER

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

List of MSc part II students with their dissertation topics  
**2022-23**

SIPSBCHP41

1. Mr. Ajaykumar Yadav: 'Lignocellulosic waste of cauliflower stalk as a feed for biomass production'.
2. Ms. Anagha Nair: 'ADRB gene expression in wild type EGFR lung cancer'.
3. Ms. Bhavana Gurrani: 'ADRB gene expression in wild type EGFR lung cancer'.
4. Ms. Chrysanthea Gonsalves: 'Study of secondary metabolites and callus induction in *Fagopyrum esculentum* (common buckwheat)'.
5. Ms. Mandira Bhosale: 'Immobilization of trypsin inhibitor from Bengal gram (*Cicer arietinum*) and alfalfa seeds (*Medicago sativa*)'.
6. Ms. Sakshi Sharma: 'Study of inhibition of RAS signaling pathways by natural compounds using in-silico tools'.
7. Ms. Sakshi Yadav: 'Study of phytochemicals and callus induction in buckwheat'.
8. Ms. Sharumati Nadar: 'Phytochemical screening, antibacterial activity evaluation and callus induction of buckwheat (*Fagopyrum esculentum*)'.
9. Mr. P.V Sidharath Thamban: 'Synthesis and characterization of gelatin and carboxymethylcellulose composite films reinforced with tamarind shell powder'.
10. Mr. Yash Salastekar: 'D-glucose grafted  $\beta$ -cyclodextrin complexed with sativoid as a low-caloric alternative to table sugar'.



Dr. Deepali K. Kothekar  
Head, Dept. of Biochemistry

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

Sion West, Mumbai - 400 022



**SIES**

College of Arts,  
Science &  
Commerce (Autonomous)

RISE WITH EDUCATION

NAAC REACCREDITED - 'A' GRADE

**CERTIFICATE**

This is to certify that, **Mr. Yadav Ajaykumar Harishchandra**, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '**Lignocellulosic waste of cauliflower stalk as a feed for Biomass production**' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Dr. Deepali Kothekar*  
24/04/23

**Dr. Deepali Kothekar**

Head of Department

Department of Biochemistry

SIES College of Arts, Science and Commerce

(Autonomous)

Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

**Place:** Mumbai

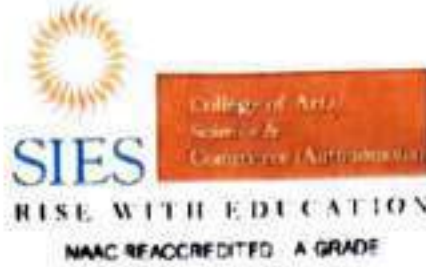
**Date:** 24/4/23





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

Sion West, Mumbai - 400022



**CERTIFICATE**

This is to certify that **Ms. NAIR ANAGHA PRAKASH**, student of M.Sc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and commerce (Autonomous), Sion (W), Mumbai - 400022, has submitted the dissertation work "**ADRB gene Expression in wild type EGFR lung cancer**" for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Anuradha*

**Professor Anuradha Chougale**  
Consultant and faculty scientist,  
Medical Oncology Molecular Laboratory,  
Tata Memorial Hospital,  
Pard,  
Mumbai-400012

DEPT. OF MEDICAL ONCOLOGY  
टैटामेमरी, मुंबई / TMC, MUMBAI.

*Dr. Deepali Kothekar*  
24/04/23

**Dr. Deepali Kothekar**  
Head of the Department,  
Department of Biochemistry  
SIES College of Arts, Science and Commerce,  
Sion West,  
Mumbai - 400022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

*Kishor Anand*  
24/04/23

**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE**

**(AUTONOMOUS)**

Sion West, Mumbai 400022



**CERTIFICATE**

This is to certify that **Ms. Bhavana Shrinivas Gurrani**, a student of MSc in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (W), Mumbai – 400022, has successfully completed her dissertation entitled “**ADRB gene Expression in TKI resistant EGFR lung cancer**” under the guidance of Professor Anuradha Choughule, Consultant and faculty scientist at Medical Oncology Molecular Laboratory, Tata Memorial Hospital, Parel, Mumbai-400012. The work described herein is to be submitted to S.I.E.S College of Arts, Science and Commerce (Autonomous), in partial fulfilment of the degree requirement of Master of Science in Biochemistry during the academic year 2022-2023.

*Anuradha*  
20/04/23

**Professor Anuradha Choughule,**  
Chair professor,  
Maharashtra University of Health Sciences,  
Consultant and faculty scientist,  
Medical Oncology Molecular Laboratory,  
Tata Memorial Hospital,  
Parel, Mumbai-400012.

**Place:** Mumbai

**Date:** DEPT. OF MEDICAL ONCOLOGY  
टीएमसी, मुंबई / TMC, MUMBAI.

*Dr. Deepali Kothekar*  
24/04/23

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

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

*Dr. Deepali Kothekar*  
24/04/23

**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE  
(AUTONOMOUS)**  
Sion West, Mumbai - 400 022



**SIES**

College of Arts,  
Science &  
Commerce (Autonomous)

**RISE WITH EDUCATION**

NAAC REACCREDITED - 'A' GRADE

**CERTIFICATE**

This is to certify that, Ms. **Gonsalves Chrysanthea Kennedy**, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '*Study of secondary metabolites and callus induction in Fagopyrum esculentum (Common Buckwheat)*' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Dr. Deepali Kothekar*  
*24/04/23*

**Dr. Deepali Kothekar**  
Head of Department

Department of Biochemistry  
SIES College of Arts, Science and Commerce  
(Autonomous)  
Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

Place: Mumbai  
Date: *24/04/23*





**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE  
(AUTONOMOUS)  
Sion West, Mumbai – 400 022**



**CERTIFICATE**

This is to certify that, **Ms. Bhosale Mandira Sudhir**, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '**Immobilization of Trypsin inhibitor from Bengalgram (*Cicer arietium*) and Alfalfa seeds (*Medicago sativa*)**' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Dr. Deepali Kothekar*  
24/04/23  
**Dr. Deepali Kothekar**  
Head of Department  
Department of Biochemistry  
SIES College of Arts, Science and Commerce  
(Autonomous)  
Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

Place: Mumbai  
Date: 24/04/23





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

Sion West, Mumbai - 400 022



**CERTIFICATE**

This is to certify that, Ms. Sakshi Sharma, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '*Study of inhibition of RAS signalling pathway by natural compounds using in-silico tools*' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Dr. Deepali Kothekar*  
24/04/23  
**Dr. Deepali Kothekar**  
Head of Department  
Department of Biochemistry  
SIES College of Arts, Science and Commerce  
(Autonomous)  
Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022

Place: Mumbai  
Date: 24/04/23



**SIES College of Arts, Science and Commerce (Autonomous) Sion  
(West), Mumbai - 400 022**



**CERTIFICATE**

This is to certify that, **Ms Sakshi Subhash Chandra Yadav** 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 Phytochemicals And Callus Inductuin In Buckwheat ( Fagopyrum Esculentum )* " for the partial fulfilment of the **Master's degree in Science** in the subject of Biochemistry, during the academic year **2022-2023**.

*Dr. Deepali Kothekar*  
*24/04/23*

**Dr. Deepali Kothekar**

Head, Department of Biochemistry

SIES College of Arts, Science and Commerce (Autonomous)

Sion (West), Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

**Date:** *24/04/23*

**Place:** Mumbai



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

Sion West, Mumbai – 400 022



**CERTIFICATE**

This is to certify that, **Ms. Sharumathi Murugan Nadar**, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work "**Phytochemical Screening, Antibacterial Activity Evaluation And Callus Induction Of Buckwheat (Fagopyrum Esculentum)**" for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2022-2023.

*Dr. Deepali Kothekar*  
24/04/23

**Dr. Deepali Kothekar**  
Head of Department  
Department of Biochemistry  
SIES College of Arts, Science and Commerce  
(Autonomous)  
Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022

Place: Mumbai  
Date: 24/04/23





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

Sion West, Mumbai – 400 022



**CERTIFICATE**

This is to certify that, Mr P.V Sidharth, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '*Synthesis and characterization of Gelatin and Carboxymethylcellulose composite films reinforced with Tamarind Shell Powder*' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2021-2022.

*Dr. Deepali Kothekar*  
*24/04/23*

**Dr. Deepali Kothekar**

Head of Department

Department of Biochemistry

SIES College of Arts, Science and Commerce

(Autonomous)

Sion West, Mumbai - 400 022

**Head Dept. of Biochemistry**  
**SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion West**

**Place:** Mumbai

**Date:** *24/04/23*





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

Sion West, Mumbai - 400 022



**CERTIFICATE**

This is to certify that, Mr **Salastekar Yash Vinay**, student of MSc. in Biochemistry (Semester IV), Department of Biochemistry, SIES College of Arts, Science and Commerce (Autonomous), Sion (West), Mumbai - 400 022, has submitted the dissertation work '*D-Glucose grafted  $\beta$ -Cyclodextrin complexed with Stevioside as a Low-Calorie Alternative to Table Sugar*' for the partial fulfilment of the Master of Science in Biochemistry, during the academic year 2021-2022.

*Dr. Deepali Kothekar*  
*24/04/23*

**Dr. Deepali Kothekar**

Head of Department

Department of Biochemistry

SIES College of Arts, Science and Commerce

(Autonomous)



Sion West, Mumbai - 400 022

Head Dept. of Biochemistry  
SIES COLLEGE OF ARTS, SCIENCE &  
COMMERCE, Sion (West), Mumbai-400022.

Place: Mumbai

Date: 24/04/23



<p>महाराष्ट्र शासन सहायक संचालक अन्न व औषध प्रशासन प्रयोगशाळा वांद्रे कुर्ला संकुल वांद्रे पूर्व मुंबई ४०० ०५९</p>	  <p>FDI MAHARASHTRA Your Service is Our Duty</p>	<p>GOVERNMENT OF MAHARASHTRA Assistant Director, Food &amp; Drug Administration Laboratory (M.S.) 341, Bandra-Kurla Complex, Bandra(East), Mumbai 400 051. Tel.No. 26592362 Email.ID. <a href="mailto:adcl_mum@yahoo.co.in">adcl_mum@yahoo.co.in</a></p>
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NO. FDAH TC/492-23/2

Date - 1/8/2023


## CERTIFICATE

This is to certify that, Mr. RAHUL SARKAR Student of SIES College of Arts, Science & Commerce, Sion had been in this Laboratory from 2<sup>nd</sup> May 2023 to 31<sup>st</sup> July 2023.

During this period he has observed and learned the procedures and process adopted for the Standardization of various Food & Drugs Articles. He was also involved in the analysis of above articles with the help of chemical and sophisticated analytical techniques.

This certificate is issued for academic purpose as per the request of trainee.



  
(D. P. Awashank)  
Assistant Director  
Food and Drug Administration Laboratory  
Mumbai 51

To,  
Mr. RAHUL SARKAR .

Copy to : SIES College of Arts, Science & Commerce, Sion.

<p>महाराष्ट्र शासन सहायक संचालक अन्न व औषध प्रशासन प्रयोगशाला वांद्रे कुर्ला संकुल वांद्रे पूर्व मुंबई ४०० ०५१</p>	  <p>FOR MAHARASHTRA Your Service is Our Duty</p>	<p>GOVERNMENT OF MAHARASHTRA Assistant Director, Food &amp; Drug Administration Laboratory (M.S.) 341, Bandra-Kurla Complex, Bandra(East), Mumbai 400 051. Tel.No. 26592362 Email.ID. <a href="mailto:adcl.mum@yahoo.co.in">adcl.mum@yahoo.co.in</a></p>
--	---	--

MO-FDA/TC/192-23/2

Date: 11/8/2023

## CERTIFICATE

This is to certify that, **Ms. SHRUTI BABAR** Student of SIES College of Arts, Science & Commerce, Sion had been in this Laboratory from 2<sup>nd</sup> May 2023 to 31<sup>st</sup> July 2023.

During this period she has observed and learned the procedures and process adopted for the Standardization of various Food & Drugs Articles. She was also involved in the analysis of above articles with the help of chemical and sophisticated analytical techniques.

This certificate is issued for academic purpose as per the request of trainee.



  
(D. P. Awashank)

Assistant Director,  
Food and Drug Administration Laboratory,  
Mumbai 51.

To,  
Ms. SHRUTI BABAR.

Copy to : SIES College of Arts, Science & Commerce, Sion.





8th May 2023

To,  
**Prathmesh Suhas Satam**  
**Mumbai.**

Sub: Appointment Letter for Internship

With reference to your application and the subsequent interview with our organization, we are pleased to appoint you as “**Chemist Intern**”. The internship period is **8th May 2023** to **7th August 2023**.

You would be working for our Mumbai Lab.

You will be paid Rs. 4000/- per month as stipend.

We wish you a happy tenure and success in our organization.

Thanking you,

**EQUINOX LABS PVT.LTD.**



**AUTHORIZED SIGNATORY**



### Terms of Internship

1. You will make your own arrangements for coming to office and no additional allowance will be paid to you for this purpose.
2. Rules and Regulations of the company and Code of Conduct that are applicable to other staff members of your cadre will be applicable to you.
3. You may at any time, during your internship at the discretion of the company, be transferred to any office / works of the organization or any other department, at any other place as the management may deem fit, without any additional compensation.
4. You will discharge your duties regularly, conscientiously, sincerely and in the best interest of the organization and to the entire satisfaction of all concerned.
5. In case your services are found dissatisfactory, your internship shall be terminated without any notice and compensation.
6. In case of Resignation or end of internship you will have to sign the companies "Asset Handover form" to confirm that you have returned all proprietary or confidential information of the company
7. You will not be allowed any time during your internship with us or thereafter without the consent of the employer, disclose, divulge or make public any of the secrets that harm the interest of this organization, if the same is divulged to you as an employee of this organization.
8. You shall not be allowed to divulge or disclose to any third party the technical know – how, formula, literature, drawings or any other information regarding the services or the product of the said firm even after you cease to be in the service of the said firm.
9. You shall not be allowed to try and contact or cause anybody to contact the existing clients / customers of the said firm, thereby resulting in diverting the business of the said firm to the same other company or firm or proprietorship directly or individually.
10. You shall not be allowed to take advantage of your position and knowledge acquired in the said firm for gain of some other company or firm or proprietorship directly or indirectly and shall not do or cause to be done, any at which will jeopardize the business interest of the said firm.
11. If you shall ever violate any of the above clauses no. 6 to clause no. 10 the said company can claim damages from you.
12. If you wish to discontinue your internship for any specific reason it will be at the discretion of the employer to provide an Internship Certificate based on the tenure served.

As a token of your having accepted the terms and conditions, you are requested to sign the duplicate copy of this letter and return the same to us.

**For EQUINOX LABS PVT.LTD.**

**AUTHORIZED SIGNATORY**



**Employees Acknowledgement and Acceptance**

I, **Prathmesh Suhas Satam** , by declaring that I have read this offer and Terms of internship and understood their implications and accepted the same without any reservation. As a token of my acceptance, I affix my signature here below on this date.

**DATE: 8th May 2023**

**Employee Signature**

31st May 2023

To,  
**Varsha Shetty**  
**Mumbai.**

Sub: Appointment Letter for Internship

With reference to your application and the subsequent interview with our organization, we are pleased to appoint you as “**Chemist Intern**”. The internship period is **31st May 2023** to **30th August 2023**.

You would be working for our Mumbai Lab.

You will be paid Rs. 4000/- per month as stipend.

We wish you a happy tenure and success in our organization.

Thanking you,

**EQUINOX LABS PVT.LTD.**



**AUTHORIZED SIGNATORY**





### Terms of Internship

1. You will make your own arrangements for coming to office and no additional allowance will be paid to you for this purpose.
2. Rules and Regulations of the company and Code of Conduct that are applicable to other staff members of your cadre will be applicable to you.
3. You may at any time, during your internship at the discretion of the company, be transferred to any office / works of the organization or any other department, at any other place as the management may deem fit, without any additional compensation.
4. You will discharge your duties regularly, conscientiously, sincerely and in the best interest of the organization and to the entire satisfaction of all concerned.
5. In case your services are found dissatisfactory, your internship shall be terminated without any notice and compensation.
6. In case of Resignation or end of internship you will have to sign the companies "Asset Handover form" to confirm that you have returned all proprietary or confidential information of the company
7. You will not be allowed any time during your internship with us or thereafter without the consent of the employer, disclose, divulge or make public any of the secrets that harm the interest of this organization, if the same is divulged to you as an employee of this organization.
8. You shall not be allowed to divulge or disclose to any third party the technical know – how, formula, literature, drawings or any other information regarding the services or the product of the said firm even after you cease to be in the service of the said firm.
9. You shall not be allowed to try and contact or cause anybody to contact the existing clients / customers of the said firm, thereby resulting in diverting the business of the said firm to the same other company or firm or proprietorship directly or individually.
10. You shall not be allowed to take advantage of your position and knowledge acquired in the said firm for gain of some other company or firm or proprietorship directly or indirectly and shall not do or cause to be done, any at which will jeopardize the business interest of the said firm.
11. If you shall ever violate any of the above clauses no. 6 to clause no. 10 the said company can claim damages from you.
12. If you wish to discontinue your internship for any specific reason it will be at the discretion of the employer to provide an Internship Certificate based on the tenure served.

As a token of your having accepted the terms and conditions, you are requested to sign the duplicate copy of this letter and return the same to us.

**For EQUINOX LABS PVT.LTD.**

**AUTHORIZED SIGNATORY**



**Employees Acknowledgement and Acceptance**

I, **Varsha Shetty**, by declaring that I have read this offer and Terms of internship and understood their implications and accepted the same without any reservation. As a token of my acceptance, I affix my signature here below on this date.

**DATE: 31st May 2023**

**Employee Signature**

## Offer Letter

12th May, 2023

**Mr Aditya,**

**Subject: Confirmation of Internship at ProPlant Foods Pvt Ltd (ProMeat).**

Dear Aditya,

We are delighted to inform you that you have been selected for the Intern position with **ProMeat**. Please find the following confirmation of the specifics of your internship:

Position Title:	Sales and Operations Intern
Start Date:	15 <sup>th</sup> May 2023
End Date:	15th July 2023
Location:	Hybrid

### **Job Role- Sales and Operations Intern**

- 1) Data analysis.
- 2) Develop and execute sales strategies to achieve sales targets.
- 3) Identify potential clients in the F&B industry and build relationships with them.

You are allowed to continue the internship after the specified period as per the requirement of the company. In case you wish to leave, then a notice period of seven days is required.

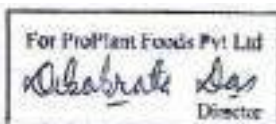
You will be liable to follow the rules and regulations made by the company regarding safety and discipline from time to time. In case during the internship period, we found you are violating or indulging in any indiscipline then the company i.e ProPlant Foods Pvt Ltd reserves the right to terminate the internship with immediate effect.

Perks of Internship:

- 1) Opportunity to join our main team as a **full-time Leading role** in Team.
- 2) Monthly stipend based on performance.
- 3) LORs and Certificate on completion.
- 4) Close-knit startup culture and community.
- 5) A fun mix of experiences that are both qualitative and quantitative.

Kindly reply to this mail to confirm your acceptance by 8th March 2023. Should you have any questions regarding the specifics of your internship, please contact us by email (info@promeat.in).

**For ProPlant Foods Pvt Ltd,**







## CERTIFICATE

This is to certify that Mr. Jatin Karkera who completed his Diploma in Food Tech & Nutraceuticals from SIES College of Arts, Science, and Commerce has successfully completed an internship at Metropolis Healthcare Ltd from 20<sup>th</sup> May 2023 to 20<sup>th</sup> July 2023.

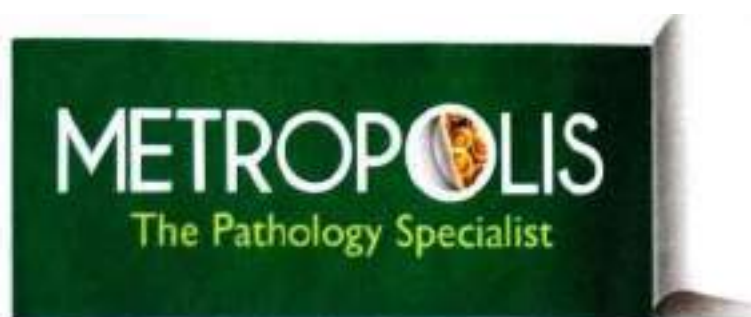
He had hands-on experience in Molecular techniques such as Automated and Manual DNA Extraction, Polymerase Chain Reaction, and Gel loading. He observed the techniques such as Sanger sequencing, Real-Time PCR and HIV Cobas Ampliprep, and Taqman Assay. He also observed Microbiology section Gram Staining techniques, ZN Smear, MS Vitek AST, and Bio Fire and Serology test. He worked well as a part of the team during his tenure. We wish him all the best in his future endeavors.

**Date: 23/7/2023**



**Mr. Ashish Lad**

Sr. Lab Manager, Infectious Diseases Department Metropolis Healthcare Limited



**INNER HEALTH REVEALED**

**Metropolis Healthcare Limited**

Registered Office: 350 D, Udyog Bhavan, Hind Cycle Marg, Worli, Mumbai - 400 030.

CIN: U71100MH2000PLC19279B. Tel: +91-22-3399 3939 / 4630 5555.

Email: support@metropolisindia.com | Website: www.metropolisindia.com

Central Laboratory: 4th Floor, Commercial Building-1A, Khar Road, Khar West, Mumbai - 400 052.

Mumbai (40) Mumbai - 400 052.



**Date- 09/07/2023**

**To, Dr. Deepali Kothekar**

**SIES college, Mumbai**

Subject-Internship Appointment letter for post graduate student Mehwish Ghori

This is with reference to application for the internship by your student Mehwish ghori at The Food details Consultancy. With the subsequent discussion she had at the interview scheduled on 13th May, 2023. We selected her for Internship at The Food Details, Consultancy on the following terms and conditions:

Position- Interning Food Technologist

Internship Duration- May 18, 2023 to August 18, 2023

Commencement of Internship- Your internship will be effective from May 18, 2023.

Working hours- Monday to Saturday 12pm to 8pm IST Online mode. Intern has to complete the given task and assignment given for the day.

We congratulate Mehwish Ghori on her appointment and assure you to get full support for your professional growth and development in Field of Food Technology and Nutrition.

Thank you,  
Sincerely

**Ms Rishika Cerejo**  
**Founder & Food Technologist**  
**The Food details Consultancy**  
**Vasai**

Contact:+91 76661 74574  
Email- info@thefooddetails.in  
@foodtechrishikacerejo



INDIA'S 1<sup>ST</sup> DIGITAL FOOD LABELLING SOLUTIONS

29<sup>th</sup> May, 2023

Ms. Bushra Asif Sayed,

**Subject: Internship Offer Letter for the post of Nutrition Executive (Intern) at  
The Nutrition Alchemy (LabelBlind®)**

Dear Bushra,

We are pleased to offer you, the position of **Nutrition Executive (Intern)** with The Nutrition Alchemy. Your immediate supervisor will be the Founder (undersigned). We trust that your knowledge, skills and experience will be among our most valuable assets.

You will be working in the 'Product Development' team. Your internship will be for a duration of '04 months' from 29<sup>th</sup> May, 2023 to 28<sup>th</sup> September, 2023. Your date of joining will be 29<sup>th</sup> May, 2023.

This is a full-time remote internship.

Work timings – 9.30 am to 6.30 pm. Work days – Monday to Saturday.

Please send a signed copy of this letter to us indicating your acceptance to join.

Your Internship Certificate will be issued on the last date of Internship.

Please submit the following documents at the time of your joining: (1) photocopies of your last degree certificates, (2) colour passport-size photos and (3) identity proof (Aadhar).

We look forward to welcome you aboard.

Sincerely,

For **The Nutrition Alchemy**

**Rashida Vapiwala**

**Founder**



**PatilKaki Ecom Ventures Private Limited,**  
 294, Indira Nagar, KK Ganguly Marg, Juhu Tara Road,  
 Santacruz West - Mumbai - 400049  
 +91 8591 336 124 / contact@patilkaki.com  
 Web: www.patilkaki.com  
 CIN - U15100MH2022PTC377994

### Internship Offer Letter for Abir Sakharkar

Place: Santacruz, Mumbai

Date: **13 June, 2023**

Dear Abir,

We are pleased to offer you the position of **Production Management Intern** here at PatilKaki. At PatilKaki, we believe that our team is our biggest strength and we take pride in hiring only the best and the brightest. We are confident that you would play a significant role in the overall success of the venture.

The key terms are:

- Your joining date will be 13th June 2023.
- Your stipend will be ₹9,000 a month (on Pro - Rata Basis)
- Working days are Monday to Saturday.
- Probation period – 1 month (from the date of joining). During this period, no notice is required for termination of employment.
- Post the probation period, the notice period will be 1 month.
- If the employment is terminated during the probation period, 60% of the monthly salary/stipend will be calculated on Pro-Rata Basis.
- The offer is based on the particulars and information made available by you – in case any of the said information is found false, the offer will be deemed cancelled.
- Your appointment will be governed by the terms and conditions present in Annexure A enclosed herewith.

All of us here are looking forward to welcoming you on board.

Please confirm your acceptance.

Sincerely,

**Darsheel Savla,**  
**Co - Founder,**  
**PatilKaki**



## Annexure A

The job will be governed by the following terms and conditions during your job with PatilKaki Ecom Ventures Private Limited, and those shall be amended from time to time.

### **Key Details:**

Full Name: Abir Sakharkar

Employee ID: KHAB93371

Job Position: Production Management Intern

Role Type: On-ground

Duration: 3 Months

Official Working Hours: 7A.M to 3P.M

Stipend :9,000/ Month (On Pro - Rata Basis)

### **1. Introduction:**

- You are being hired as a **Production Management Intern** and Darsheel Savla would be your reporting manager and mentor during the job.
- Your date of joining is 13/06/2023 and the working hours will be 7A.M to 3 P.M. During this time you are expected to devote your time and efforts solely to the company. You are also required to let your reporting manager know about forthcoming events (if there are any) in advance so that the work can be planned accordingly.

### **2. Job Description:**

- Oversee all production operations at PatilKaki.
- Monitor production quality and efficiency.
- Troubleshoot production-related issues and devise creative solutions.
- Prepare production reports on a regular basis and communicate performance metrics to senior management.
- Analyze production data to identify trends and suggest process improvements.
- Develop and implement strategies to improve productivity, quality, and cost-effectiveness.
- Monitor inventory levels and monitor the supply chain.
- Coordinate with other departments to ensure smooth operations.
- Ensure compliance with safety and legal regulations.

### **3. Performance & Reviews:**

- There will be catch ups (SYNC Calls) scheduled with your mentor to discuss work progress and overall job experience at regular intervals (one day of the week).
- PatilKaki is a results-oriented company and it is our belief that participation of each and every team member is critical to the overall success of the company. It will be the company's best effort to try and provide a healthy ecosystem for each of its employees to thrive and grow.

#### 4. Data Handling, Confidentiality & Exclusivity:

- All the work that you produce at or in relation to the company will be the intellectual property of PatilKaki Ecom Ventures Private Limited. You are not allowed to store, copy, sell, share, and distribute it to a third party under any circumstances. Similarly, you are expected to refrain from talking about the work in public domains (both online such as blogging, social networking site and offline among their knowns) without prior discussion and approval of your mentor.
- The company takes data privacy and security very seriously and to maintain confidentiality of any customers, clients, and companies' data and contact details that you shall get access to during your job will be your responsibility. PatilKaki Ecom Ventures Private Limited operates on **zero tolerance** principle with regard to any breach of data security guidelines. At the completion of the job you are expected to hand over all PatilKaki Ecom Ventures Private Limited work/data stored on your personal device to your mentor and delete the same from your machine.
- During the appointment period you shall not engage yourself directly or indirectly or in any capacity in any other organisation (other than your college). In the event of breach of this condition, this appointment is liable to be terminated forthwith by the company. In addition, you shall be liable to pay liquidated damages to the Company to an extent estimated by the Company. Under such circumstances, the company shall ask you to end your engagement with the other organisation and withhold the full and final settlement until that has been done.

#### 5. Termination of employment:

- This employment is an at-will association. The company or the employee can terminate the relationship at any point in time. You shall terminate this association by providing a notice of 30 days without assigning any reason. If you fail to serve the notice period, the company will withhold your full and final settlement, relieving letter and experience certificate.
- You shall also be legally bound to pay the dues worth your salary/ stipend for the remaining days not served in the notice period. Notice periods are uncomfortable for both employee and employer, so please be polite and professional.
- You are expected to conduct yourself with utmost professionalism in dealing with your mentor, team members, colleagues, clients and customers and treat everyone with due respect.
- The company shall terminate this agreement forthwith under situations of in-disciplinary behaviours or under-performance.

#### 6. Leave Rules & Regulations:

- As per the company policy, 12 official paid leaves will be allotted on a Pro Rata basis (1 leave a month). These leaves can't be encashed.
- Logging in/ Arriving at work 20 minutes after the official working hours on any 2 days would be considered as a half day.
- All leaves need to be applied for in advance; 2 days before the leave is to be taken the manager is to be informed and a "Application for Leave" Form is to be filled.
- Unapplied/ uninformed leaves will cost 3 days salary/ stipend deduction.
- For example: 1 uninformed/ unapplied leave = 3 days of salary/ stipend deduction. ● A company calendar indicating the dates blocked and available dates for leaves will be followed to accept/reject leaves.

#### 7. Salary Cycle and Probation Period:

- The salary/ Stipend for the current month will be credited on the 10th of the following month on Pro-Rata Basis

- (Ex: March salary/ Stipend will be credited on April 10th)
- Probation period will be 30 days from the joining date. If the employment is terminated during the probation period, 60% of the monthly salary/ stipend will be calculated on Pro-Rata Basis.

## 8. Other Commitments:

- Your Job Description and working hours are dynamic and are subject to changes from time to time. • You would need to work on Sundays if required. This will be discussed in the group discussions from time to time to keep everyone informed in advance.
- You shall need to work beyond your working hours if there is more load on selected days.
- You would be under a 1-month employment bond with the company.

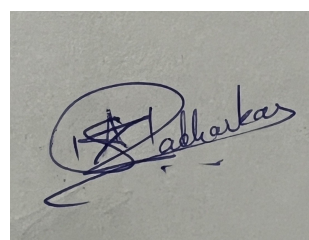
## 9. Footnote:

- PatilKaki Ecom Ventures Private Limited is a startup and we love people who like to go beyond the normal call of duty and can think out of the box. Surprise us with your passion, intelligence, creativity and hardwork – and expect appreciation & rewards to follow.
- Expect constant and continuous objective feedback from your mentor and other team members and we encourage you to ask for and provide feedback at every possible opportunity. It's your right to receive and give feedback – this is the ONLY way we all can continuously push ourselves to do better. You will be required to share anonymous feedback at regular intervals of the job.
- Have fun at what you do and do the right thing – both the principles are core of what the company stands for and we expect you to imbibe them in your day to day actions and continuously challenge us if we are falling short of expectations on either of them.
- This employment agreement is subject to the company's policies, procedures, and handbook as adopted, all of which can be revised at the company's discretion at any point in time.

I have negotiated, agreed, read and understood all the terms and conditions of this job letter as well as Annexure hereto and affix my signature in complete acceptance of the terms of the letter.



**Darsheel Savla**  
**Co- Founder,**  
**Patilkaki**  
**Place- Santacruz, Mumbai**  
**Date- 13/06/2023**



**Abir Sakharkar**  
**Production Management Intern**  
**Patilkaki**  
**Place:- Talaja**  
**Date- 13/06/2023**



**PatilKaki Ecom Ventures Private Limited,**  
 294, Indira Nagar, KK Ganguly Marg, Juhu Tara Road,  
 Santacruz West - Mumbai - 400049  
 +91 8591 336 124 / contact@patilkaki.com  
 Web: www.patilkaki.com  
 CIN - U15100MH2022PTC377994

### Internship Offer Letter for Deepali Shinde

Place: Santacruz, Mumbai

Date: **June 15th, 2023**

Dear Deepali,

We are pleased to offer you the position of **Production Management Intern** here at PatilKaki. At PatilKaki, we believe that our team is our biggest strength and we take pride in hiring only the best and the brightest. We are confident that you would play a significant role in the overall success of the venture.

The key terms are:

- Your joining date will be 15th June 2023.
- Your stipend will be ₹9,000 a month (on Pro - Rata Basis)
- Working days are Monday to Saturday.
- Probation period – 1 month (from the date of joining). During this period, no notice is required for termination of employment.
- Post the probation period, the notice period will be 1 month.
- If the employment is terminated during the probation period, 60% of the monthly salary/stipend will be calculated on Pro-Rata Basis.
- The offer is based on the particulars and information made available by you – in case any of the said information is found false, the offer will be deemed cancelled.
- Your appointment will be governed by the terms and conditions present in Annexure A enclosed herewith.

All of us here are looking forward to welcoming you on board.

Please confirm your acceptance.

Sincerely,



**Darsheel Savla,**  
**Co - Founder,**  
**PatilKaki**



## Annexure A

The job will be governed by the following terms and conditions during your job with PatilKaki Ecom Ventures Private Limited, and those shall be amended from time to time.

### **Key Details:**

Full Name: Deepali Shinde

Employee ID: HUTD691

Job Position: Production Management Intern

Role Type: On-ground

Duration: 3 Months

Official Working Hours: 9 A.M - 5 P.M

Stipend :9,000/ Month (On Pro - Rata Basis)

### **1. Introduction:**

- You are being hired as a **Production Management Intern** and Darsheel Savla would be your reporting manager and mentor during the job.
- Your date of joining is 15/06/2023 and the working hours will be 9 A.M - 5 P.M. During this time you are expected to devote your time and efforts solely to the company. You are also required to let your reporting manager know about forthcoming events (if there are any) in advance so that the work can be planned accordingly.

### **2. Job Description:**

- Oversee all production operations at PatilKaki.
- Monitor production quality and efficiency.
- Troubleshoot production-related issues and devise creative solutions.
- Prepare production reports on a regular basis and communicate performance metrics to senior management.
- Analyze production data to identify trends and suggest process improvements.
- Develop and implement strategies to improve productivity, quality, and cost-effectiveness.
- Monitor inventory levels and monitor the supply chain.
- Coordinate with other departments to ensure smooth operations.
- Ensure compliance with safety and legal regulations.

### **3. Performance & Reviews:**

- There will be catch ups scheduled with your mentor to discuss work progress and overall job experience at regular intervals (one day of the week).
- PatilKaki is a results-oriented company and it is our belief that participation of each and every team member is critical to the overall success of the company. It will be the company's best effort to try and provide a healthy ecosystem for each of its employees to thrive and grow.

### **4. Data Handling, Confidentiality & Exclusivity:**

- All the work that you produce at or in relation to the company will be the intellectual property of PatilKaki Ecom Ventures Private Limited. You are not allowed to store, copy, sell, share, and distribute it to a third party under any circumstances. Similarly, you are expected to refrain from talking about the work in public domains (both online such as blogging, social networking site and offline among their knowns) without prior discussion and approval of your mentor.
- The company takes data privacy and security very seriously and to maintain confidentiality of any customers, clients, and companies' data and contact details that you shall get access to during your job will be your responsibility. PatilKaki Ecom Ventures Private Limited operates on **zero tolerance** principle with regard to any breach of data security guidelines. At the completion of the job you are expected to hand over all PatilKaki Ecom Ventures Private Limited work/data stored on your personal device to your mentor and delete the same from your machine.
- During the appointment period you shall not engage yourself directly or indirectly or in any capacity in any other organisation (other than your college). In the event of breach of this condition, this appointment is liable to be terminated forthwith by the company. In addition, you shall be liable to pay liquidated damages to the Company to an extent estimated by the Company. Under such circumstances, the company shall ask you to end your engagement with the other organisation and withhold the full and final settlement until that has been done.

## 5. Termination of employment:

- This employment is an at-will association. The company or the employee can terminate the relationship at any point in time. You shall terminate this association by providing a notice of 30 days without assigning any reason. If you fail to serve the notice period, the company will withhold your full and final settlement, relieving letter and experience certificate.
- You shall also be legally bound to pay the dues worth your salary/ stipend for the remaining days not served in the notice period. Notice periods are uncomfortable for both employee and employer, so please be polite and professional.
- You are expected to conduct yourself with utmost professionalism in dealing with your mentor, team members, colleagues, clients and customers and treat everyone with due respect.
- The company shall terminate this agreement forthwith under situations of in-disciplinary behaviours or under-performance.

## 6. Leave Rules & Regulations:

- As per the company policy, 12 official paid leaves will be allotted on a Pro Rata basis (1 leave a month). These leaves can't be encashed.
- Logging in/ Arriving at work 20 minutes after the official working hours on any 2 days would be considered as a half day.
- All leaves need to be applied for in advance; 2 days before the leave is to be taken the manager is to be informed and a "Application for Leave" Form is to be filled.
- Unapplied/ uninformed leaves will cost 3 days salary/ stipend deduction.
- For example: 1 uninformed/ unapplied leave = 3 days of salary/ stipend deduction.
- A company calendar indicating the dates blocked and available dates for leaves will be followed to accept/reject leaves.

## 7. Salary Cycle and Probation Period:

- The salary/ Stipend for the current month will be credited on the 10th of the following month on Pro-Rata Basis
- (Ex: March salary/ Stipend will be credited on April 10th)
- Probation period will be 30 days from the joining date. If the employment is terminated during the probation period, 60% of the monthly salary/ stipend will be calculated on Pro-Rata Basis.

## 8. Other Commitments:

- Your Job Description and working hours are dynamic and are subject to changes from time to time.
- You would need to work on Sundays if required. This will be discussed in the group discussions from time to time to keep everyone informed in advance.
- You shall need to work beyond your working hours if there is more load on selected days.
- You would be under a 1-month employment bond with the company.

## 9. Footnote:

- PatilKaki Ecom Ventures Private Limited is a startup and we love people who like to go beyond the normal call of duty and can think out of the box. Surprise us with your passion, intelligence, creativity and hardwork – and expect appreciation & rewards to follow.
- Expect constant and continuous objective feedback from your mentor and other team members and we encourage you to ask for and provide feedback at every possible opportunity. It's your right to receive and give feedback – this is the ONLY way we all can continuously push ourselves to do better. You will be required to share anonymous feedback at regular intervals of the job.
- Have fun at what you do and do the right thing – both the principles are core of what the company stands for and we expect you to imbibe them in your day to day actions and continuously challenge us if we are falling short of expectations on either of them.
- This employment agreement is subject to the company's policies, procedures, and handbook as adopted, all of which can be revised at the company's discretion at any point in time.

I have negotiated, agreed, read and understood all the terms and conditions of this job letter as well as Annexure hereto and affix my signature in complete acceptance of the terms of the letter.



*Darsheel Savla*



**Darsheel Savla,**  
Co - Founder,  
PatilKaki  
Place: Santacruz, Mumbai  
June 15, 2023

**Deepali Shinde**  
Production Management Intern  
PatilKaki  
Place: Nerul  
Date: June 15, 2023

**Date:**

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Anshika Omprakash Gupta**, student of SIES College of Arts, Science and Commerce (Autonomous) University of Mumbai has undergone an Inplant -Training Program as a part of her curriculum for **4 months** in "SKYLINE FOOD PRODUCT LLP", Located at Plot No.2419, Om Tarak Building, Madvi Compound, Sonale Village, from **22.05.2023** to **15.09.2023**.

During the tenure with "SKYLINE FOOD PRODUCT LLP" She worked in our Peanut Chikki Section. Overseeing quality parameters and Laboratory Analysis of RM, PM and Finished Goods. We found her to be sincere and hardworking person. She is having active habits related to her profession and pleasing manners.

We wish her success in future assignments.

**SKYLINE FOOD PRODUCTS LLP**



**Authorized Signatory**





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Aakarsh Asoka**

has successfully completed his 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

18/10/2022

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Prerana Premkumar**

has successfully completed her 2-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

04/02/2022

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER

February 09,2023

## Letter of Acknowledgment

To whomsoever it may concern,

Anushree Anantharaman was a Graphic Design Intern with Red Dot Foundation (Safecity) from 10 January 2023 to 10 February 2023. During this duration, some of her roles and responsibilities were as follows:

- Creating infographics to present our company in a creative manner..
- Designing banners & creatives for our company's online & offline campaigns and events.
- Designing brochures ,newsletters,posters etc.
- Participating in Safecity's online activities, campaigns and competitions.
- Offline volunteering and report writing for an event.

Safecity documents sexual violence in public spaces through crowdsourced data, community engagement and institutional accountability with the aim to make public spaces safer and equally accessible to all. This crowdsourced information which may be anonymous, gets aggregated as hot spots on a map indicating trends at a local level.

We thank Anushree for her valuable support during this time and wish her well for future endeavors.

**Kind Regards**



**Tania Echaporina**  
Chief Operating Officer





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Arya Chorghade**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

15/10/2022

DATE

331580 | MUMBAI

CO - FOUNDER





Sss/hr/ks

February 27, 2023

**TO WHOMSOEVER IT MAY CONCERN**

It gives me pleasure to certify that Ms. Arnaiti Billimoria interned at Seva Sadan Society Gamdevi, Mumbai, between November 08, 2022 to December 16, 2022

Arnaiti worked diligently to help create an Instagram Page for the Society. Arnaiti is creative and designed posts for Instagram. She was readily available to troubleshoot any technical issue faced by us. She came through as a dedicated and hardworking young girl with a clear focus on doing her bit to help the less privileged.

Seva Sadan Society greatly appreciates her services.

We wish Arnaiti good luck and success in whatever she may choose to do.

For Seva Sadan Society

Ms. Sheila Nair  
President

**SEVA SADAN SOCIETY**

30/31, Pandita Ramabai Road, Gamdevi, Mumbai 400 007.

Tel: 022 2388 9109 / 2380 8005 E-mail : sevasadan@sevasadan.org; Website : www.sevasadan.org

Registration No : F-125 (BOM) PAN No : ANATS07106 GSTIN : 27AAAT50170P131



# CERTIFICATE OF EXPERIENCE

This Certifies that

**Chaitali Dandekar**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

22/01/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER



5-1-2023

To whom so ever it may concern

This is to certify that Miss Kalpana Venkateswarao Digamarty worked with our Udisha Project. She worked from 26<sup>th</sup> October 2022 to 26<sup>th</sup> November 2022

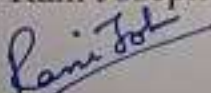
We were very happy to have her as a volunteer for our underprivileged students of low-income group of Udisha Project. She conducted parenting program for single mothers, she was good in gathering information on one on one basis for data entry for the NGO.

She was dedicated to her work and taught the students with extra concern and patience. She is very hardworking person. She was able to assist the students with special needs to the slow learners as well as to the students with learning disability. We wish her all the best for her future endeavors.

Thanking you.

Yours sincerely,

Rani Joseph



(Project Manager)





# स्त्री मुक्ती संघटना

जिल्हा शाखा - सी.बी.डी.प्लॉट, ५४४/१४ एम ४००१६ (पुणे) महाराष्ट्र  
 कॉर्पोरेट समुपदेशन व शाला केंद्र (महाराष्ट्र राज्य सल्लागार कान्वादा संस्थान अनुदान प्राप्त)  
 द्वारा: काशी आरोग्य केंद्र, चविका मजला, एम. एन. ई. सी. म्हा. बागुला, वीसतार १, काशी, को. पुणे - ४०० ५०३.  
 मो. नं. ९८००५५१७११३ ईमेल : smstocw@gmail.com वेबसाईट : www.streemukthisanghatana.org

राज्यातील कार्यालय : ११, बडोदा (राज्या केंद्र), लोकमान्य टिळक मंडळ, चर्च हा. ३, कलापुर्णी, पुणे ४०००१४ फोन नं. : ०२२ २४१७५०१

संदर्भ क्रमांक : smst Acc/33/V/2023

दिनांक : १.३.२३

To whosoever it may concern.

This is to certify that Kalyani Jagdeh Gautam, student of SIES College, Sion (W), Mumbai has completed her internship/assignment with us. She has intored with us during the period 15th January 2023 to 8th March 2023.

During her internship we found her to be very disciplined, dilgent and amiable person. She was able to establish a rapport with our women waste pickers and interacted well with them.

I would like to give her my best wishes for her bright future.

Thanking you and with regards,

Rashmi Karle,  
 Asst.FCC Ccoordinator,  
 Stree Mukti Sanghatana,  
 9821030228

स्त्री मुक्ती संघटना  
 कॉर्पोरेट समुपदेशन केंद्र  
 काशी आरोग्य केंद्र  
 भांडार मजला, M.E.E. म्हा बागुला,  
 वीसतार-१, काशी, को. पुणे-४०००१३  
 फोन नं. ९८००५५१७११३



5-1-2023

To whom so ever it may concern

This is to certify that Miss Geneshiya Joy Balraj worked with our Udisha Project. She worked from 26<sup>th</sup> October 2022 to 26<sup>th</sup> November 2022

We were very happy to have her as a volunteer for our underprivileged students of low-income group of Udisha Project. She conducted parenting program for single mothers, she was good in gathering information on one on one basis for data entry for the NGO.

She was dedicated to her work and taught the students with extra concern and patience. She is very hardworking person. She was able to assist the students with special needs to the slow learners as well as to the students with learning disability. We wish her all the best for her future endeavors.

Thanking you.

Yours sincerely,

Rani Joseph



(Project Manager)





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Glaria Sundar Singh**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

28/02/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER



Sss/hr/ks

February 27,2023

**TO WHOMSOEVER IT MAY CONCERN**

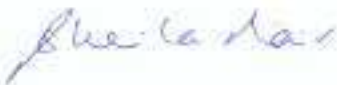
It gives me pleasure to certify that Ms. Zeena Khambatta interned at Seva Sadan Society Gamdevi, Mumbai, between November 02, 2022 to December 08,2022.

Zeena worked diligently to help create an Instagram Page for the Society. Zeena is creative and designed posts for Instagram. She was readily available to troubleshoot any technical issue faced by us. She came through as a dedicated and hardworking young girl with a clear focus on doing her bit to help the less privileged.

Seva Sadan Society greatly appreciates her services.

We wish Zeena good luck and success in whatever she may choose to do.

For Seva Sadan Society



Ms. Sheila Nair  
President



# CERTIFICATE

**Mr./Ms. Disha Hegde**

From **SIES College of Arts, Science and Commerce** has volunteered from the period of **01-11-2022** to **03-12-2022** and has spent a total of **105 hours** with Akshara Centre, a women's organisation.

We appreciate the time and effort given to us.

---

**Co-Director/Volunteer-in-charge  
Akshara Centre**



akshara.frea@gmail.com



www.aksharacentre.org



@AksharaCentre



@AksharaCentreIndia



@AksharaCentre-India



**Dated: 28 February 2023**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Damini Shashank Manerikar** has done Internship Assignment with CARE India Solutions for Sustainable Development (CISSD) from **2 January 2023** to **31 January 2023**. She was associated with Udaan- Mumbai Project based at CISSD, Mumbai.

**Task Undergone:**

To promote the empowerment of adolescent girls, and to effectively achieve the goal of preparing them to become leaders of their lives:

- Interacted with girls and other stakeholders in the community through focus group discussions and small group interactions with a focus on the following activities.
- Creating gender-based content for discussions with parents
- Establish a forum for interactive, open, and non-judgmental discussions with adolescent girls on sensitive topics centered around physical and emotional well-being.
- Support the educators by assisting them in improving the quality of functional English module
- Conduct a health survey on the health and hygiene practices followed in the community
- Identify areas of improvement which will boost the overall health of the community
- Support in designing creative and engaging material related to the project activities for English and Digital Literacy modules.
- Support in Proof reading of content
- Best practices, success stories writing,
- Develop supporting worksheet of English worksheet
- Proofread of academic based worksheet developed by CARE India
- Support in analysis of assessment data which rolled out on ground
- Support in compilation of videos and photographs.

We wish her all the best in her future endeavours.

Best Regards,

**For and on behalf of  
CARE India Solutions for Sustainable Development**



**Swapna Samuel  
Senior Director – HR & OD**

**MEN WELFARE TRUST**

UNDER THE AEGIS OF  
**SAVE INDIAN FAMILY MOVEMENT**

# **CERTIFICATE**

OF RECOGNITION

THIS CERTIFICATE IS PRESENTED TO

**Dhara Pradeep Mandaliya**

*SIES College of Arts, Science, and Commerce*

FOR

*Completing Internship*

*Project – Designing Creatives for Special Awareness Programs  
through Research, Messaging, Designing Creatives*

12/Dec/2022

DATE



*Anurag Kulkarni*  
SIGNATURE

**MEN WELFARE TRUST (Regd.)**  
C-403, Arvind Apartments  
Plot-9, Sec-19B, Dwarka,  
New Delhi-110075 (INDIA)

Men Welfare Trust (Regd.), [www.menwelfare.in](http://www.menwelfare.in), [menwelfaretrust@gmail.com](mailto:menwelfaretrust@gmail.com), Helpline: 8882498498



# CERTIFICATE

This certifies that

**ADITI KOTIAN**

has successfully completed her  
1 month internship with us

01/01/23

Date



President

ACID  
SURVIVORS  
SAKSHAM  
FOUNDATION





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Jivakaviya Monikar**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

01/12/2022

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER





# CERTIFICATE OF EXPERIENCE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

*Mitali Mangesh Mohite*

For her contribution as Social Media Manager (intern) for a period of three months, September 2022 to November 2022 with Gandhinagar Queer Pride Foundation. Her work is appreciable.

December 5, 2022

Date

Rahul Upadhyay  
Director, Gandhinagar Queer Pride Foundation

Gandhinagar Queer Pride Foundation  
Reg. No. U85300RJ2022NPL081364

Email: [connect@gqpfoundation.org](mailto:connect@gqpfoundation.org)

# CERTIFICATE OF INTERNSHIP

This is to certificate that

# MARINA KUMAR

Student of SIES College Of Arts Science And Commerce Sion(W)

has completed the Internship Program at Jagruti Kendra  
for the period from 18th July, 2022 till 28th August, 2022.



*S. Seema*  
(Trustee)



# CERTIFICATE OF EXPERIENCE

This Certifies that

Esther Ruba  
Anthony Nadar

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

15/10/2022

DATE

331580 | MUMBAI

CO - FOUNDER



March 17, 2023

## **Letter of Acknowledgment**

To whomsoever it may concern,

Nandini Haldunia was working as a Graphic Design Intern with Red Dot Foundation (Safecity) from 16 February 2023 to 16th March 2023. During this duration, some of her roles and responsibilities were as follows:

- Video Proofreading for She Is - Water Heroines (18 Videos)
- Creating Posters - IG Live & Testimonials (2 Posters)

Safecity documents sexual violence in public spaces through crowdsourced data, community engagement and institutional accountability with the aim to make public spaces safer and equally accessible to all. This crowdsourced information which may be anonymous, gets aggregated as hot spots on a map indicating trends at a local level.

We thank Nandini for her valuable support during this time and wish her well for future endeavors.

**Kind Regards**



**Tania Echaporla**  
**Chief Operating Officer**





# CERTIFICATE

## OF EXPERIENCE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

# Mansi Naik

For her contribution as Graphic Designer (intern) for a period of one month, January 2, 2023 to February 4, 2023 with Gandhinagar Queer Pride Foundation. Her work is appreciable.

February 12, 2023

Date

Rahul Upadhyay  
Director, Gandhinagar Queer Pride Foundation

Gandhinagar Queer Pride Foundation  
Reg. No. U85300RJ2022NPL081364

Email: [connect@gqpfoundation.org](mailto:connect@gqpfoundation.org)



# CERTIFICATE OF EXPERIENCE

This Certifies that

**Mahalaxmi Nadar**

has successfully completed her 3-months  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

10/02/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Varada Pavge**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

21/01/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER



# CERTIFICATE OF COMPLETION

This is awarded to

*Malhar Sameer Rane*

for successfully completing the Internship Program from November to December 2022.  
We appreciate your contribution to the team and have thoroughly enjoyed having you as  
an Intern at MAVA. We wish you the best in your future endeavors.

Harish Sadani

Co-founder & Executive Director

Altamash Khan

Project Co-ordinator





# Certificate of Internship

This is to Certify that

*Rhea Prabhu*

has successfully completed a one month (7th January 2023 to 11th February 2023) long internship programme at Myna Mahila Founadation. During the period of the internship programme with us she was found punctual, hardworking and inquisitive.

We wish you all the best for your future endeavours,  
and hope to see you with us again soon!

---

SUHANI JALOTA  
CEO, Myna Mahila  
Foundation



# CERTIFICATE OF EXPERIENCE

This Certifies that

Vigneshwar Pillai

has successfully completed his 2-months  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

01/02/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER





# CERTIFICATE OF EXPERIENCE

This Certifies that

**Rini Merin Mathew**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

01/11/2022

DATE

123456 | MUMBAI

*Tanya Mathew*

CO-FOUNDER





# Certificate

## Of Internship

is presented to

# Palakshi Chetan Sathe

GRADE



upon successful completion of internship with **Pinkishe Foundation** as per the following details:

### Internship Details

Internship Duration: 8 weeks

Internship Dates: Nov. 28' 22 - Jan. 28" 2023

Intern's Role: Content Writer

Team: Social media

Number of Hours: 60

**Certificate Awarded On:** January 29, 2023

**Shalini Gupta**  
SECRETARY GENERAL

**Arun Gupta**  
PRESIDENT



## FEEDBACK FORM

1. Name of the Student: Nashrah Shaikh

2. Name of the Organisation: Streedhan India NGO

3. Name of the Person in-charge: Tanya Malik.

4. Nature of internship/ volunteering: Virtual.

5. Job Profile: ContentWriter.

6. Were you happy with the candidate? Please give reason for your choice.

Yes. Nashrah has excellent abilities, and she has contributed wonderfully to the cause of our project.

7. Was our student helpful/courteous in his/her dealings with you?

Yes.

8. Area of improvement (if any):

No.

Name: Tanya Malik

Designation: Founder

Stamp:

Streedhan Association of Women's Development  
*Tanya Malik*  
Authorized Signatory

**Thank you for the opportunity and feedback!**

March 06,2023

## Letter of Acknowledgment

To whomsoever it may concern,

Hetvi Shah was a Safecity Intern with Red Dot Foundation (Safecity) from 12th January 2023 to 12th February 2023. During this duration, some of her roles and responsibilities were as follows:

- Assisting in person and virtual workshops.
- Assisting with technical support for the virtual workshops.
- Assisting with the in person activities.
- Writing a report for the workshops attended in person and virtually.
- Taking feedback from people who have attended the workshops.
- Data Entry.
- Making Certificates.
- Calling institutions/organizations to set up training sessions.

Safecity documents sexual violence in public spaces through crowdsourced data, community engagement and institutional accountability with the aim to make public spaces safer and equally accessible to all. This crowdsourced information which may be anonymous, gets aggregated as hot spots on a map indicating trends at a local level.

We thank Hetvi for her valuable support during this time and wish her well for future endeavors.

**Kind Regards**



**Tania Echaporla**  
Chief Operating Officer



# CERTIFICATE OF EXPERIENCE

This Certifies that

**Sara Siddique**

has successfully completed her 1-month  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

23/01/2023

DATE

331580 | MUMBAI

*Tanya Malik*

CO- FOUNDER

माणुसकीची ँव सामाजिक संस्था, (रजि)

March 10, 2023

**Letter of Acknowledgment**

**To whomsoever it may concern,**

It gives me pleasure to certify that Ms. Roshni Singh interned at माणुसकीची ँव सामाजिक संस्था, (रजि), Dharavi, Mumbai between September 01, 2023 to October 01, 2023.

Roshni worked diligently to help distribution of sanitarries and was a helping hand throughout her internship. She came through as a dedicated and a hardworking young girl with a clear focus on doing her bit to help the less privileged children and women's.

माणुसकीची ँव सामाजिक संस्था greatly appreciate her effort for her hardworking services.

We wish MS Roshni god luck and success in whatever she may choose to do.

Kind Regards



JAY HOLMUKHE  
Chief Operating Officer  
(7039221290)





### FEEDBACK FORM

1. Name of the Student: **Ms Roshni Singh**
2. Name of the Organisation: **भाणुमकीची ऊच सामाजिक संस्था , (रीज)**
3. Name of the Person in-charge: **Mr. Jay Holmukhe**
4. Nature of internship/ volunteering: **Hybrid**
5. Job Profile: **Assistant in Distribution faculty**
6. Were you happy with the candidate? Please give reason for your choice.  
**Yes, diligent worker with warming heart and Excellent Ability. Contributed wonderfully throughout her internship.**
7. Was our student helpful/courteous in his/her dealings with you?  
**Yes.**
8. Area of improvement (if any): **None**



Signature:

Name: Jay Holmukhe.

Designation: chief Officer.

**Thank you for the opportunity and feedback!**



# CERTIFICATE OF EXPERIENCE

This Certifies that

**Nishika Thapar**

has successfully completed her 5-months  
internship with us

**STREEDHAN ASSOCIATION OF WOMEN'S  
DEVELOPMENT**

18/10/2022

DATE

331580 | MUMBAI

*Tanya Malik*

CO - FOUNDER





# JOY YOUTH GROUP

REGD. NO. MAH STATE / MUMBAI 2357/2016 G.B.B.S.D

## CERTIFICATE

This is to clarify that Suganya Sivaraja BA English literature, S.I.E.S College of Arts Science and Commerce, Sion West has completed the internship of Voluntary work in social service related to women's safety purpose in our NGO at Dharavi, from 19 October 2022 to 19 November 2022.

**PLACE : MUMBAI**

**DATE : 20/11/2022**

**JOY YOUTH GROUP**  
Vishwakarma Chawl,  
Dharavi Bus Depot Road, Rajiv Gandhi  
Nager, Dharavi, Mumbai - 400017.



## CERTIFICATE OF COMPLETION

This is awarded to

*Aditya Omprakash Yadav*

for successfully completing the Internship Program from November to December 2022.  
We appreciate your contribution to the team and have thoroughly enjoyed having you as  
an Intern at MAVA. We wish you the best in your future endeavors.

Harish Sadani

Co-founder & Executive Director

Altamash Khan

Project Co-ordinator





# NIRMALA INSTITUTE

## SAKHYA - WOMEN'S GUIDANCE CELL

Add: Saverda Street, 1st Floor, Kalamb Road, Opp. Police Chowk, Nirmal, Nallasopara (R), Tal. Vasai, Dist. Palghar - 401 304  
Phone: 980210402 Email: sakhya\_57@rediffmail.com Website: www.sakhyawg.org  
Blog Id: wsg239.blogspot.in Facebook: sakhyawomen's Guidance Cell

To

whomsoever it may concern

This is to certify that Vedang Deshpande Students from SIES College of Arts, Science and Commerce(Autonomous), Sion West, Mumbai TYBA was placed in our organization for his internship from 3rd March, 2023 to 29th March, 2023. During his internship he has worked on creating social media content (captions), presented an original poem in Marathi at Sakhya events in Nehru Nagar and Lokamanya Nagar in Thane, documented a case of DV for the annual report, interviewed two inspiring persons and documented their success stories in both Marathi and English, campaigned for Sakhya in his locality, and taught the basics of English to schoolchildren from underprivileged communities for 4 days(10th, 17th, 24th and 25th of March). We appreciate his dedication and wishing him all the best for his future.

*Shaila*

Shaila Crasto  
Director

28<sup>th</sup> March 2023.

**NIRMALA INSTITUTE**  
**SAKHYA WOMEN'S GUIDANCE CELL**  
Saverda Street, 1st Floor, Opp. Police Chowk,  
Nirmal, Nallasopara (R), Tal. Vasai, Dist. Palghar - 401 304.

C-406

Year 2022-23

Sem III

**SIES COLLEGE OF ARTS, SCIENCE & COMMERCE**  
[ AUTONOMOUS ]

SION (WEST), MUMBAI - 400 022.

**Physics Department**

**S. Y. B. Sc.**

Name Sahil Pawar

Division C Subject : **Practical Journal**

Roll No. SS2223406

Semester : III / IV

# SIES COLLEGE OF ARTS, SCIENCE & COMMERCE

(AUTONOMOUS)

SION (WEST), MUMBAI- 400 022.

S.Y.B.Sc. PHYSICS PRACTICALS (SIUSPHYP3)

Semester- III

## INDEX

### GROUP-C

Sr. No.	Name of the Experiment	Date	Page No.	Initials
1.	Use of CRO and Concept of Beats using CRO	18/7/22	1-4	V. M. Menon
2.	Determination of various liquids using Tate's law	18/7/22	5-6	
3.	Literature Review Report.		7-10	
4.	Educational visit Report	2/9/22	11-12	

### GROUP-C

V. M. Menon

Certified that the above experiments that have been duly signed by the teacher \_\_\_\_\_ were performed by Mr./Miss Sahil Pawar of S.Y.B.Sc. Class, Division.....C..... Roll No. 552223406 in the Physics Laboratory of SIES College of Arts, Science & Commerce, Sion (west) during the Semester- III of the academic year 2022 - 2023

*V. M. Menon*

Teacher's Signature

*klaloo*

Head of the Physics Dept



Name:- Pawar Sahil Vijay

Roll No:- 352223406.

Div:- C

(11)

## Report On Field Visit To "Nehru Science Centre"

On Saturday, 2 Sep. 2022 we had visit to 'Nehru Science Centre' Worli. To experience the basic principles & marvels in science & technology. We arrives at 10:30 Am From sion station & reach there at around 11:45 Am.

First we enter in the science centre we saw the Energy model. This model exhibit visitor to raise a ball using muscle power to certain height. Then it is released in a slanted track. While moving through this track, the ball releases its potential energy which is converted to kinetic energy & is used to perform several tasks like moving a wheel, hitting a hammer on metal plate, moving a trolley down the track etc. The energy gained by ball is converted to different energy forms. Hence it is called the Energy model. And in same place we saw the harmonograph. This is used to draw the pictures by using swinging pendulum. This is invented by the Scottish mathematician Hugh Blackburn in 1844.

Then we visited to the science



Show. There we see the exciting chemical reaction on the invisible disappearing Ink, feeling blue, super absorbent, Elephant toothpaste.

Then we go to the Hall of Light & Hall of Sound & there we learnt about some physics concepts like Wave propagation, Doppler effect, How sound travels, Physics behind Musical experiments, frequency & Resonance, Hyperboloid, Electric, potential, Fiber optics, speakers, 3D image, etc. We also see the walking piano & it is very interesting. We also solve the cube & play the card games. We can also read about thinking machine & there is a photo of it statue of it.

Then we explored the Hall of Human & Machine & learnt about Biology. We see the Nervous system, Brief outline on human brain anatomy with animations, Digestive system Exhibit parts of alimentary canal are highlighted specific to the item that is digested, specimens of heart, Fetus etc, Reflex action, probing the brain, shaking hand, sensory, relay & motor neuron, Replacement of organs, Giant heart with vessels & valves, Eye



& vision, Respiratory system, DNA quiz, Excretory system: activity, stem cell research, Eukaryotic cell, Prokaryotic cell, blue print of DNA, etc.

Then we visit the hall of mirror & we see their a different types of mirror like concave, convex, Plane etc. mirrors. Then we also see the 'bhoal bhulaiya' Maze there & entertain it.

Then we visit to the room of A Indian Air Defence. We see the so many models of Aircrafts like Auroras, Apache helicopter, Chinook, Hawk, MIG 29 (Fighter), SU 30 (Fighter), Mirage-2000, Jaguar, Rafale etc & we have also get some important information about Indian Air force. & also the information about Job opportunities in Indian Air force.

In last we visit to the Hall of Aviation & Space. In this hall we see the different type of models of satellite.

Finally after the fun filled education experience we departed from 'Nehru Science Centre' at 5 PM. pm.

2022-



**SIES COLLEGE OF ARTS, SCIENCE AND  
COMMERCE**

**(Autonomous)**

Affiliated to

**UNIVERSITY OF MUMBAI**

Syllabus for

**SEM III & IV**

**Program: S.Y. B.Sc.**

**Course: Physics**

(Credit Based Semester and Grading System with effect from the  
academic year 2022–2023)



**References:**

1. Introduction to Electrodynamics by D.G Griffith , 3<sup>rd</sup> Edition. Prentice Hall of India.
2. CH: Charlie Harper, Introduction to Mathematical Physics, 2009 (EEE) PHI Learning Pvt. Ltd.
3. Theory of errors in Physical measurement by J.C.Pal , New central Book Agency 2008 reprint, ISBN 81-7381-108-3
4. H.K Das Mathematical Physics S.Chand & Company.
5. Jon Mathews & R.L. Walker Mathematical methods for physics, W.A Benjamin Inc.
6. A.K.Ghatak & Chua Mathematical physics, 1995 Macmillan India Ltd.

**SEMESTER-III**

Course Code	Title	Credits
SIUSPHYP3	Practical course -3	2

**Course Outcome:**

- CO 1: To use breadboard for designing and testing electronic circuits.
- CO 2: To practice use of different measuring instruments like CRO, BG.
- CO 3: Correlate the concepts of physics with experimental outcomes.
- CO 4: Concepts of errors, their estimation and significance.
- CO5: To plan and execute short projects.

**Group A**

1. Y by bending.
2. Resonance Pendulum
3. Helmholtz resonator- determination of unknown frequency.
4. Verification of Stefan's law (electrical method).
5. Cylindrical obstacle: Determination of  $\lambda$ .
6. Optical lever: Determination of  $\mu$
7. Surface tension of a given liquid by Jaeger's method
8. Determination of Joule constant 'J' by electrical method



### **Group B**

1. Transistor Characteristics: CB mode
2. Norton's Theorem
3. Figure of merit of a mirror galvanometer
4. OPAMP: Inverting amplifier with different gains.
5. OPAMP: Non-inverting amplifier with different gains and voltage follower.
6. Energy consumption in an electrical circuit
7. Passive Integrator
8. Half adder and full adder (7486, 7408) using EXOR Gate

### **Group C**

1. Determining the R.I. by air cell method
2. Surface tension of a given liquid using pipet
3. Concept of beats.
4. Research activities, Synthesis of materials - mini project - thin film/nano materials/bulk powders using different routes etc.(equivalent to 2 practical sessions).
5. Project on a topic (equivalent to 2 practical sessions)
6. Assignment & literature survey (equivalent to 2 practical sessions).

### **Skill experiments**

1. Measurement of resistance of galvanometer (G by shunting)
2. Wiring of a simple circuit using bread board.
3. Spectrometer: optical leveling and Shuster's method.
4. Travelling microscope (radius of capillary).
5. Component testing, color code of resistors, capacitors etc.
6. Drawing of graph on semi logarithmic / logarithmic scale.

### **References:**

1. D. Chattopadhyaya, PC Rakshit & B Saha, Advanced course in Practical Physics, (6<sup>th</sup> Edition) Book and Allied Pvt.Ltd.

2. Harnam Singh, B.Sc Practical Physics, S. Chand & Co. Ld. 2001
3. Samir Kumar Ghosh, A test book of advanced practical PHYSICS, New Central Book Agency (3<sup>rd</sup> edition)
4. CL Arora, B.Sc. Practical Physics, (1<sup>st</sup> Edition) -2001 S. Chand and Co Ltd.
5. CL Squires, Practical Physics, (3<sup>rd</sup> Edition) Cambridge University
6. DC Tayal, University Practical Physics, Himalaya Publication
7. Worsnop & Flint, Advanced Practical Physics.

**Instructions:**

1. All the measurements and readings should be written with proper units in SI system only.
2. After completing the required number of experiments in the semester and recording them in journal, the student will have to get their journal certified and produce the certified journal at the time of practical examination.
3. While evaluating practical, weightage should be given to circuit/ray diagram, observations, tabular representation, experimental skills and procedure, graph, calculation and result.
4. Skill of doing the experiment and understanding physics concepts should be more important than the accuracy of final result.

Note: Each of the activities listed below is equivalent of two experiments from **Group C**.

1. Collect the information of at least five Physicists with their work or any three events on physics, report that in journal.
2. Execute a mini project to the satisfaction of teacher in-charge of practical.
3. Participate in a study tour or visit & submit a study tour report.

For **Groups A and B**, minimum 6 experiments from each group must be reported in journal. For **Group C**, a learner must perform the equivalent of 6 practicals with at least 2 experiments performed in the lab and reported in the journal. All the skill experiments are required to be completed and reported in the journal.

For practical examination in **Group A** and **Group B** the learner will be examined in two experiments (one from each group). Each experiment will be of three hours' duration, evaluation in viva voce will be based on regular experiments and skill experiments.

Practical examination in **Group C** will be based on Project (report, presentation & viva).

A candidate will be allowed to appear for the practical examination only if the candidate submits a certified journal of SYBSc Physics or a certificate from the Head of the Department to the effect that the candidate has completed the practical course of SYBSc Physics as per the minimum requirements.



College of Arts,  
Science &  
Commerce

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

**Faculty: Science**

**Program: F.Y.B.Sc.**

**Subject: ZOOLOGY**

**Academic Year: 2018 – 2019**

**Credit Based Semester and Grading System approved  
by Board of Studies in Zoology to be brought into effect  
from June 2018**

**F. Y. B. Sc. Zoology Syllabus (Autonomous)  
Credit Based Semester and Grading System  
(With effect from academic year 2018-19)**

**Scheme of Examination**

The performance of learners will be evaluated in two parts for the Theory component of the Course:

1. Internal Assessment with 40% marks
2. Semester End Examination (written) with 60% marks

The Practical component of the Course will be evaluated by conducting Semester End Practical Examination of 50 marks.

**Internal Assessment Theory (40%)**

It is the assessment of learners on the basis of continuous evaluation as envisaged in the Credit Based System by way of participation of learners in various academic and correlated activities in the given semester of the program.

**Marks: 40**

1. Class test (Centralized Examination): **20 Marks**
2. At the departmental level evaluation will be conducted on the basis of Report submitted by the student on field visit to Zoo/ National Park/ Sanctuary/ Aquarium/ Fish Market/ Nature Conservation Centre/ any Educational institute in the vicinity: **20 Marks**

**Semester End Assessment Theory (60%)**

**Marks: 60**

**Duration: 2 hours**

**Theory question paper pattern:**

- There shall be four questions of 15 marks each. On each unit there will be one question and the 4<sup>th</sup> question will be based on the entire syllabus.

**OR**

There shall be three questions of 20 marks each, each question based on one unit.

- All questions are compulsory with internal choice within the questions.
- Questions may be subdivided and the allocation of marks depends on the weightage of the topic.

**Semester End Assessment Practical**

**Marks: 50**

**Duration: 2 hours**

\*\*\*\*\*



AC/14.8.19/RS 1



College of Arts,  
Science &  
Commerce

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

**Faculty: Science**

**Program: S.Y.B.Sc.**

**Subject: ZOOLOGY**

**Academic Year: 2019 – 2020**

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

- 6) Study of Adaptive radiations in Mammals: Duckbilled Platypus, Kangaroo, Bottlenose dolphin, Bluewhale, Sea Cow [Dugong], Flying Squirrels, Hoolock Gibbon
- 7) Study of Osmosis using RBCs
- 8) Study of ultra-structure of Cell Organelles using electron micrograph- Mitochondria, Endoplasmic reticulum, Golgi complex, Nucleus and Lysosomes
- 9) Study of Chromosome morphology using Onion root tip-squash preparation
- 10) Study of Polytene Chromosome: Temporary preparation of Salivary gland of Chironomous larva/ drosophila/mosquito
- 11) Bibliography
- 12) Abstract writing
- 13) Preparation of Power point presentation based on the research paper provided to you

#### **Practical II (SIUSZOP42) based on SIUSZO42**

- 1) Problems in Molecular Biology
- 2) Problems based on Biotechnology
- 3) Internet connectivity, search engines, visits to bioinformatics and related sites.

#### **Practical III (SIUSZOP43) based on SIUSZO43**

- 1) Study of Helminthes Parasites
  - a) Identification of Taenia, Enterobius, Ancylostoma, Wuchereria and Dracunculus.
  - b) Parasitic adaptation–Scolex & Mature Proglottid of Tapeworm.
- 2) Study of Morphological Characters of a fish: Pomfret, Shark, Sting Ray, Bombay duck and Mackerel
- 3) Study of Fishery–Identification of the specimen with special reference to Fishery
  - a) Fresh water fishery – Rohu, Catla, Mrigal.
  - b) Marine water fishery–Oil sardine, mackerel, Bombay duck, Pomfret and Shark) Study of Crustacean fisheries & Molluscan fisheries: Prawns/ Shrimps, Lobsters, Crabs, Edible/pearl oyster, Sepia, Loligo, Katelaysia, Mytilus
- 4) Identification and Uses of Crafts and Gear
  - a) Crafts: Dugout, Outrigger, Catamaran, Masula, Satpati, Trawler
  - b) Gears: Gillnet, Dol net, Cast net, Purse seine, Shore seine, Longline
- 5) Identification of animals with reference to Animal husbandry:
  - a) Cattle – Milk breeds – Sahiwal
  - b) Dual purpose breeds – Hariyana
  - c) Draught purpose – Khillari
  - d) Sheep – Gaddi, Marvari
  - e) Buffalo – Murrah, Jaffrabadi
- 6) To detect adulterants in the Milk (starch, glucose and urea)
- 7) Extraction of Casein from Milk and its Qualitative test.
- 8) Preparation of Paneer from Milk
- 9) To measure the density of Milk by Lactometer
- 10) **Field Visit Report: Visit to nearby Poultry farm / Goatery /Animal Husbandry farm**

**/ Apiary/ Sericulture Plant / Dairy farm / Sheep farm / Vermiculture Unit  
/ Fish farm / Fish Market / Fish Landing Center / Fish Processing Industry**

(Visit to minimum any one of them is compulsory as a part of study tour; either short or long to be taken as a part of the workload)

**Practical Examination Question Paper Pattern  
Semester III–Practical (SIUSZOP31)  
Practical I based on SIUSZO31**

**Time: 2 hours** **Marks: 50**

**Q.1** Major Experiment **16**

Mounting and identification of any four foraminiferan shells from the given sample

**Q.2** Identification **24**

Spot A: Any one specimen /permanent slides with reference to Reproduction in Paramoecia or canal system in Porifera

Spot B: Any one specimen /permanent slides with reference to Polymorphism in Coelenterates or any one coral

Spot C: Any one specimen /permanent slides with reference to T. S of Liver fluke, larvae of Liver Fluke, Trocophore larva or Heteronereis

Spot D: Any one specimen /permanent slides with reference to Crustacean larvae/Echinoderm larvae

Spot E: Any one specimen /permanent slides with reference to Metamorphosis in insects

Spot F: Any one specimen /permanent slides with reference to Shell in Mollusca

Spot G: Any one specimen /permanent slides with reference to Embryology

Spot H: Any one specimen /permanent slides with reference to Speciation

**Q.3** Viva voce based on practical I and theory paper I **05**

**Q.4** Journal **05**

\*\*\*\*\*

**Semester III – Practical (SIUSZOP32)  
Practical II based on SIUSZO32**

**Time: 2 hours**

**Marks: 50**

**Q.1** Prepare a Titration Curve using strong acid and base. **15**

**OR**

Determination of pKa for Weak acid

**OR**

Select the Best Filter for each of the given two Coloured solutions.

**Q.2** Estimation of the Blood glucose level using glucose estimation kit [GOD/POD method] **15**

**OR**

Determination of concentration of unknown solution with the help of colorimeter

**OR**

Prepare a temporary slide to show the presence of Barr bodies

**OR**

Prepare buffers as per the instructions and check the pH using pH meter and Henderson Hasselbalch equation

**Q.3** Solve problems based on Genetics **10**



*(Affiliated to University of Mumbai)*

**Faculty: Science**

**Program: T.Y.B.Sc**

**Subject: ZOOLOGY**

**Academic Year: 2020 – 2021**

**Revised Syllabus in Zoology  
under Choice Based Credit System (CBCS)  
Approved by the Board of Studies in Zoology  
Effective from academic year 2020 – 2021**



- iii. T.S. of Stomach
- iv. T.S. of Ileum
- v. T.S. of Liver
- vi. T.S. of Pancreas
- vii. T.S. of Lung
- 8. Identification of following diseases or conditions (from slides or pictures):  
Melesma, Vitiligo, Psoriasis, Bed sores, Necrosis, Oedema, Malaria, Filariasis, Leishmaniasis
- 9. Vidal's Test
- 10. Study and interpretation of pathological reports: Blood, urine and stool (faeces).

**Practical Paper Code: SIUSZOP63**  
**Based on SIUSZO63**

- 1. Problems based on molecular biology.
- 2. Problems based on genetic engineering.
- 3. Demonstration of Western Blotting technique using teaching kit.
- 4. Extraction of DNA from Human blood and checking its purity using teaching kit.
- 5. Effect of CCl<sub>4</sub> on the level of enzyme activity in serum acid and alkaline phosphatase, aspartate and alanine aminotransferase.
- 6. Effect of salt of a heavy metal/ nicotine/ alcohol on the heartbeat of Daphnia.
- 7. Determination of LC<sub>50</sub> for a suitable pollutant (anyone salt of a heavy metal dissolved in water) on Daphnia by Probit analysis.
- 8. Problem-solving in bioinformatics.
- 9. Report preparation in bioinformatics.
- 10. To design a nucleotide primer for PCR.

**Practical Paper Code: SIUSZOP64**  
**Based on SIUSZO64**

- 1. Identification of sanctuaries, national parks, and wildlife reserves on map.
- 2. Study of behavioural patterns of *Betta splendens*.
- 3. Study of bird acoustics.
- 4. Identification of calls of wildlife.
- 5. Identification of various wildlife adaptation.
- 6. Study of venomous/ poisonous animals /plants.
- 7. Identification and mounting of mouthparts of the mosquito.
- 8. Problems based on biostatistics.
- 9. Study of the density of animals population by Capture-recapture methods.
- 10. Rapid field test to estimate nitrates, base deficiency and sulphates in soil samples.
- 11. Estimation of carbonates, organic content, moisture content ,texture analysis and pH of soil.
- 12. **Excursion Report submission based on -Tourism based conservation activity, ecological adaptation, ill effects of tourism.**
- 13. Report submission on behavioural biology.



*(Affiliated to University of Mumbai)*

**Faculty: Science**

**Program: T.Y.B.Sc**

**Subject: Fishery Biology  
(Applied Component)**

**Academic Year: 2020 – 2021**

**Revised Syllabus in Fishery Biology  
under Choice Based Credit System (CBCS)  
Approved by the Board of Studies in Zoology  
Effective from academic year 2020 – 2021**

**Semester V – Practical SIUSACFBIOP51**  
**Practical based on SIUSACFBIOP51**

1. Introduction to Oceanographic Instruments – Nansen Reversing Bottle with Thermometer, Peterson's Grab, Dredge.
2. Layout of fishing vessels and Sectional view of 2 stroke and 4 stroke marine engines, life saving equipments, winch and deck side equipments.
3. Identification of penaeid and non-penaeid prawn.
4. Identification of Air Breathing Fishes – *Anabas testudineus*, *Clarias batrachus*, *Boleophthalmus spp.*
5. Identification of:
  - a) Ornamental fishes – Angel, Sword Tail, Neon tetra, Siamese fighter, Danio, Discus and Flower Horn
  - b) Aquatic plants – Ludwigia, Cobamba, Cork Screw Vallisneria, Aquarose, Amazon Sword plant
  - c) Aquarium accessories – Aerator, Bottom Filter, Column Filter, Surface Filter, Food dispensers
6. Identification and mounting of phytoplankton and zooplankton.
7. Microbial studies with respect to the habitat, gut and outer surface of the aquatic organisms
  - i) Dilution of sample
  - ii) Identification of bacteria from various samples by Gram staining technique
8. Study of index of freshness in fishes and prawns using Organoleptic tests.
9. Comparative study of feeding habits of different fishes with respect to its gut content and dentition.
10. Identification of packaging materials –  
Waxed duplex carton, Master carton, Simple cans, Coated [Lacquered] cans, Polyolefin
11. **Group Activities – Field Visits and Entrepreneurial Skill Development.**

**[Please refer the Annexures for the suggested topics for field visits (Annexure-I), and entrepreneurial skill development (Annexure- II) for SIUSACFBIOP51]**



**SIES College of Arts, Science and Commerce  
(Autonomous)**

Sion (West), Mumbai – 400 022  
NAAC Reaccredited 'A' Grade (CGPA: 3.51/4.00)  
Best College Award – University of Mumbai

***Certificate***

Class: TYBSc.

Div.: C

Roll No.: 431

This is to certify that Mr. / Ms. Komalpreet Kaur  
has completed the Practical Course (Field Report) of Semester-VI in the subject of Zoology  
and that this Report represents his/ her bona fide work during the academic year 2022-23

*Ravany*

12 APR 2023

Teacher In-charge

*Ravany*



8/2/23

## EXCURSION REPORT

Amboli and Malwan, falling under Sahyadri mountains are places which are rich in biodiversity and the best place for someone who wants to experience nature up close.

On the first day, i.e. 11<sup>th</sup> January, 2023, our stop was Kurla, where we visited Dhamapur lake where our the aim was to observe as many birds and vegetation bearing animals, as possible. The key spotting of this day was the oriental darter, which looked like a snake when only its head was out of the water; only upon close observation it was clear that it was indeed a bird. Later that day, in the evening, we visited the fish landing centre, where we witnessed auctions and a lot many varieties of fresh fresh fishes.

Sr NO.	Class Species	(scientific name) family	Common name
AVES 1.	Aves		Paradise flycatcher
2.	Aves		Indian scimitar babbler
3.	Aves		Purple sunbird
4.	<del>Aves</del>		Cormorant
5.	Aves		whiteboard wagtail
6.	Aves		Oriental darter
7.	Aves		Golden oriole
8.	Aves		Western reef egret





termite hill  
C.



termites



gastropod



sting Ray



SrNo.	Scientific name / family	Class	Common name
9		Aves	Black-naped monarch
10		Insecta	Termites
11	Melanitis leda	Insecta	Common evening brown
12	Junonia iphita	Insecta	Chocolate pansy
13	Neptis jumbah	Insecta	Chestnut sailor
14	Calotes calotes	Reptilia	Forest calotes
15	Agelena indica	Arachnida	funnel web spider
16	Rasbora (genus)	Actinopterygii	Rasbora fish
17	Puntigrus tetrazona	Actinopterygii	Tiger barb
18	Scombridae (family)	Actinopterygii	Mackerel
19	Sphyraenidae (family)	Actinopterygii	Barracuda
19	Scombridae (F)	Actinopterygii	Tuna
20	Bramidae (F)	Actinopterygii	Pomfret
21	Portunus sanguinolentus	Malacostraca	Crab red spotted crab
22	Soleidae (F)		Sole fish
23	Decapodiformes (superorder)	Cephalopoda	Squid

On 12<sup>th</sup> January, 2023, we visited the landing centre again and got to see different fishes, which were not there the previous day. Shortly after we visited Sindidurg fort and then went scuba diving. Before entering into the water, we were taught various signs for communication under water and were prepared for things like ear pain and eye throbbing sensation near head. There were a lot of corals, algae, fishes, & seaweed underwater.





Tuna



Sargassum

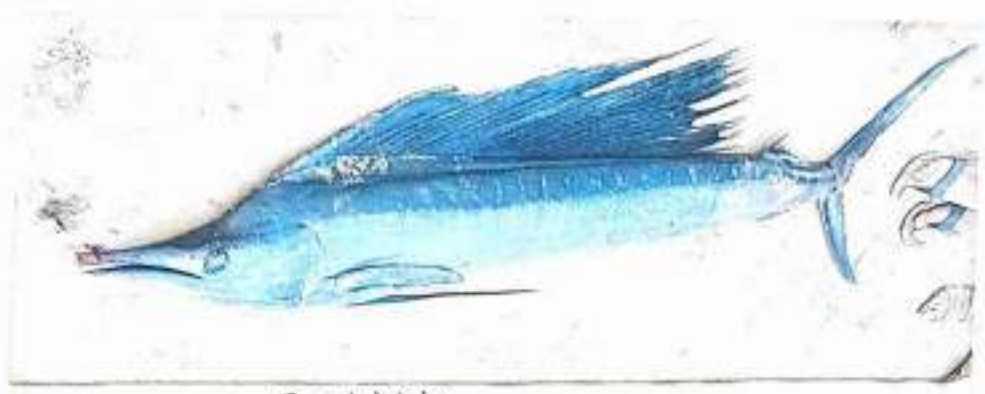


Red snapper



Eel





Sail fish



Bonethread



Inside of fort

Following day, we visited the rocky shores near our stay.

SrNo	Scientific name/family (F)	Class	Common name
1.	Muraenesox cinereus	Actinopterygii	Daggertooth pike longer
2.	Isthiophoridae (F)	Actinopterygii	Sail fish
3.	Sphyrnidae <del>elliptica</del> (F)	Chondrichthyes	Bonnethead
4.	Myliobatoidei (order)	Chondrichthyes	sting ray
5.	Caulerpaceae	Ulvophyceae	Caulerpa
6.	Sargassaceae	Phaeophyceae	Sargassum
7.	Echinoderm (Phylum)	Holothuroidea	Sea Cucumber
8.	Zoanthidae	Hexacorallia	Zoanthus
9.	epinephelus malabaricus	Actinopterygii	Malabar grouper

On 13<sup>th</sup>, we visited a wetland to do a bit of birding. This wetland was on the way to Ambali. This is where we also spotted Malabar pied Hornbill. On the same day, reaching ambali, we had two trails, one afternoon and one night trail. The afternoon trail was at Kancheth point and night trail at a nearby spot from the stay. During the night trail, the key sightings were of a bird called orange-headed ground thrush, which was fast asleep on the branch right above our bus and malabar pit viper (juvenile). One of the trees that we spotted at Kancheth point, called 'Anjan', is an indicator of saline in soil.



Sr.No	Scientific name / family (F)	Class	Common name.
1.	<i>Merops orientalis</i>	Aves	Green bee-eater
2.	<i>Alcedo atthis</i>	Aves	Common Kingfisher
3.	<i>Ceyx rufus</i>	Aves	Pied Kingfisher
4.	<i>Halcyon smyrenensis</i>	Aves	White throated Kingfisher
5.	<i>Ardea cinerea</i>	Aves	Grey Heron
6.	<i>Metopidius indicus</i>	Aves	Bronze winged Jacana
7.	<i>Ardea purpurea</i>	Aves	Purple Heron
8.	<i>Egretta garzetta</i>	Aves	Little egret
9.	<i>Ardea intermedia</i>	Aves	Intermediate Egret
10.	<i>Dendrocygna javanica</i>	Aves	lesser whistling ducks
11.	sturnidae (F)	Aves	starling
12.	<i>Acridotheres fuscus</i>	Aves	Jungle myna
13.	<i>Anthracoceros coronatus</i>	Aves	Malabar pied hornbill
14.	<i>Cecropis daurica</i>	Aves	Red-rumped swallow
15.	<i>Ptyonoprogne concolor</i>	Aves	Dusty crag martin
16.	<i>Tachymastix melba</i>	Aves	Alpine swift
17.	<i>Apus affinis</i>	Aves	Little swift
18.	<i>Geothlypis trichas</i>	Aves	Orange headed ground thrush
19.	<i>Pycnonotus jocosus</i>	Aves	red whiskered bulbul
20.	Water thyme	Angiosperm (clade)	Hydrilla
21.	<i>Monecyton umbellatum</i>	Angiosperm	Anjan
22.	Dytiscidae (F)	Insecta	Diving beetle
23.	Gerridae (F)	Insecta	Water skider
24.	<i>Craspedophthalmus malabaricus</i>	Reptilia	Malabar pit viper
25.	Scorpiones (F), Heterometrus (G)	Arachnida	Asian giant scorpion
26.	<i>Mocis latipes</i>	Insecta	small moth
27.			





*Caulerpa (seaweed)*



*Malabar Pied Hornbill*



*Zoanthus*



*Sea cucumber*





Great egg fly



Mals. latipes (moth)

On 14<sup>th</sup>, we again went for a day and a night trail, and on 15<sup>th</sup> before leaving for home, we went for a morning trail again. We heard malabar giant squirrel calls, langour calls (territory marking calls) and saw droppings of sloth bear, all this during the jungle trail. We were all made to sit in a circle, on the ground and made to absorb and observe the jungle by closing our eyes, just listening for 10 minutes. In those 10 minutes, I could hear a minimum of 23 different calls. It was the most peaceful thing ever.

14<sup>th</sup> Jan, 2023

Srno.	Scientific name / family (F)	Class	Common name
1.	<i>Coppychus fulicatus</i>	Aves	Indian Robin
2.	<i>Pycnonotus cafer</i>	Aves	Red vented bulbul
3.	<i>Psilopogon viridis</i>	Aves	White cheeked barbet
4.	<i>Streptopelia orientalis</i>	Aves	Oriental turtle dove
5.	<i>Dumetia atriceps</i>	Aves	Dark fronted babbler
6.	<i>Leptocoma minima</i>	Aves	Crimson backed sunbird
7.	<i>Pellorneum ruficeps</i>	Aves	Puff throated babbler
8.	<i>Callus sonneratii</i>	Aves	Grey jungle fowl
9.	<i>Argya striata</i>	Aves	Jungle babbler (Saathibhai)
10.	<i>Hieraastur pennatus</i>	Aves	Booted eagle
11.	<i>Myophonus horsfieldi</i>	Aves	Malabar whistling thrush
12.	<i>Psilopogon haemacephalus</i>	Aves	Coppersmith barbet
13.	<i>Indirana chiravasi</i>	Amphibia	Amboli keeping frog
14.	<i>Dysphania percata</i>	Insecta	Blue tiger moth
15.	<i>Othetura sabina</i>	Insecta	Green marsh hawk
16.	<i>Eublaea core</i>	Insecta	Common crow



15<sup>th</sup> Jan

Sr No	Scientific name/family (F)	Class	Common name
1.	<i>Sterna aurantia</i>	Anes	River tern
2.	<i>Anas poecilohyncha</i>	Anes	Spot billed duck
3.	<i>Actitis hypoleucos</i>	Anes	Common sand piper
4.	<i>Butorides striata</i>	Anes	striped heron
5.	<i>Accipiter badius</i>	Anes	shikra
6.	<i>Lanivivora a brunnea</i>	Anes	Blue Robin
7.	<i>Saxicola cauprata</i>	Anes	Pied Bush chant
8.	<i>Falco tinnunculus</i>	Anes	Common kestrel
9.	<i>Anthus rot rufulus</i>	Anes	Paddyfield pipit
10.	<i>Rufus Lanius schach</i>	Anes	long tail shrike
11.	<i>Galerida malabarica</i>	Anes	Malabar crested lark
12.	<i>Threskiornis melanacephalus</i>	Anes	Black headed ibis
13.	<i>Phylloscopus occipitalis</i>	Anes	Western crowned warbler
14.	<i>Hirundo smithii</i>	Anes	Wire tailed swallow





Anjani tree's flora



Jewel beetle



Blue tiger moth's caterpillar



Green marsh hawk





Asian Giant Scorpion



Cotton Candy corn plant

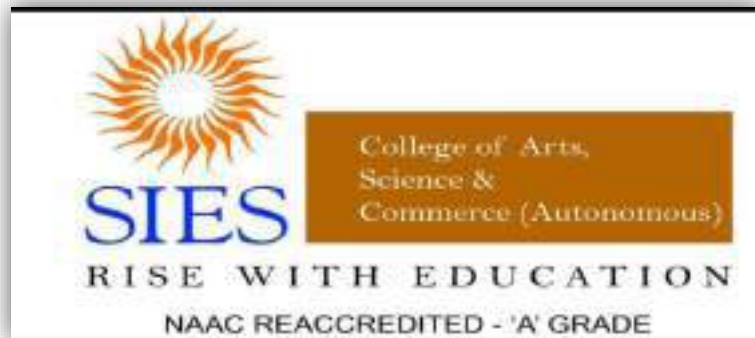


Paper wasp nest



Amboli leaping frog

RMW



Faculty: **Arts**

Programme Name: **BA**

Class: **SYBA**

Programme Code: **SIUAPOL**

Subject: **Political Science**

Academic Year: **2022-2023**

Credit Based Semester System Syllabus proposed by Department of  
Politics to the Board of Studies for the academic year 2022-23



<b>Name of the Programme:</b> B.A	<b>Programme Code:</b> SIUAPOL	<b>Name of the Department:</b> Politics
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Class	Semester	Course Code	Course Name	No. of Lectures/ per week	Credits	Marks
SYBA	III	SIUAPOL32	Introduction to Public Administration	45/3	3	100

**Course objectives:**

1. To introduce the students to the evolution of the discipline of Public Administration.
2. To acquaint them with the administrative thought and principles.
3. To familiarize students with new trends in Public Administration.

**Course Outcomes:**

**CO1:** Ability to appraise the evolution, nature and scope of public administration as an academic discipline and a profession.

**CO2:** To understand the administrative thought and principles to comprehend contemporary administrative practices.

**CO3:** Get acquainted with the changing paradigms of Public Administration.

**CO4:** Identify strategies for improved transparency and civic participation for good governance.

**Module 1: Introduction to Public Administration (12 lectures)**

- 1.1 Meaning, Scope and Significance
- 1.2 Evolution of Public Administration as a Discipline
- 1.3 Public Policy

**Module 2: Administrative Thought (11 lectures)**

- 2.1 Scientific Management and Scientific Management movement- Classical Theory
- 2.2 Weber's bureaucratic model
- 2.3 Participative Management (C. Argyris, D. McGregor, R. Likert)

**Module 3: Basic Principles and Administrative Behaviour (11 lectures)**

- 3.1 Hierarchy and Delegation
- 3.2 Motivation Theories
- 3.3 Theories of Leadership- Traditional and Modern

**Module 4: Contemporary Tools and Practices in Administration (11 lectures)**

- 4.1 Good Governance
- 4.2 E-Governance
- 4.3 Public-Private Partnership (PPP)

**Suggested Readings-**

1. Anupama Puri Mahajan, Public Administration, UP: Pearson, 2019.
2. Bhagwan Vishnoolal and Bhushan Vidya, Public Administration, S. Chand., New Delhi, 2010.
3. Chakrabarty, Bidyut and Prakash Chand Kandpal, Public Administration in a Globalizing World: Theories and Practices, Sage, New Delhi, 2020.
4. Fadia, B. L. & Dr. Kuldeep Fadia, Public Administration: Administrative Theories and Concepts, Sahitya Bhawan, Agra, 2015.
5. Laxmikant M., Public Administration, Tata McGraw Hill, New Delhi, 2011.

<b>Name of the Programme:</b> B.A	<b>Programme Code:</b> SIUAPOL	<b>Name of the Department:</b> Politics
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Class	Semester	Course Code	Course Name	No. of Lectures/ per week	Credits	Marks
SYBA	IV	SIUAPOL42	Indian Administration	45/3	3	100

**Course objectives:**

1. To acquaint students with the evolution of administration in India from British period to the present.
2. To familiarize with functioning of the Indian administration at central, state and urban level.

**Course Outcomes:**

CO1: Provides a sound base and exposure to Indian administration.

CO2: Prepares students with capabilities and skills in area of administration to take up role in future as a civil servant or managerial positions in public and private sector.

CO3: To acquaint learners to civic issues and engagement which will help them to enter the domain of public policy and social sector.

**Module 1: Introduction to Indian Administration (13 lectures)**

- 1.1 Evolution, Constitutional Context and Salient features
- 1.2 State & District Administration
- 1.3 Urban local government

**Module 2: Personnel Administration (10 lectures)**

- 2.1 Recruitment: All India Services and State Services
- 2.2 Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission
- 2.3 Training: All- India Services and State Services (Maharashtra)

**Module 3: Financial Administration (12 lectures)**

- 3.1 Budgetary Process
- 3.2 Parliamentary control of public expenditure
- 3.3 Role of Comptroller and Auditor General

**Module 4: Significant Issues in Indian Administration (10 lectures)**

- 4.1 Corruption in administration
- 4.2 Citizen-administration interface
- 4.3 Disaster Management- Institutional organization and structure

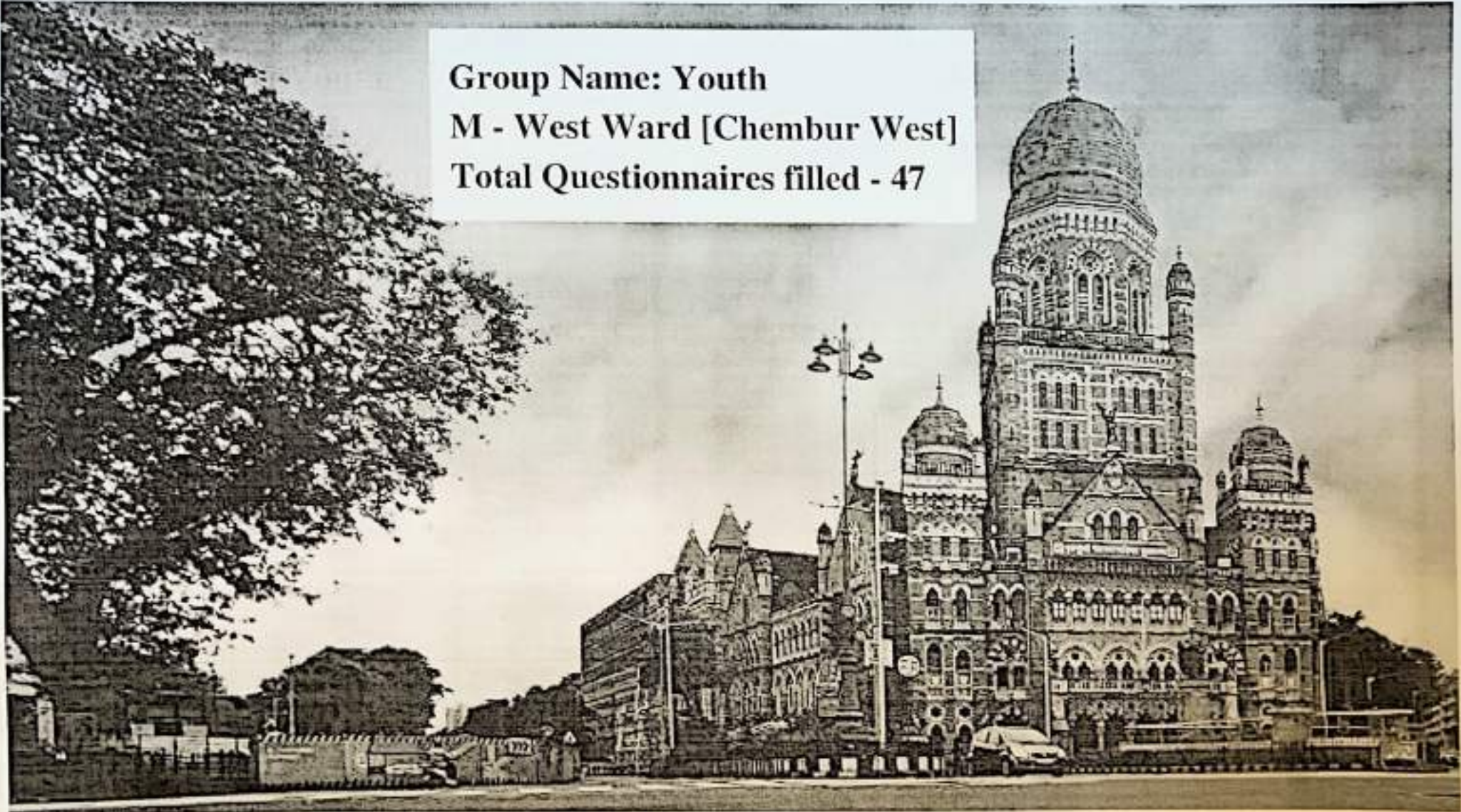
**Suggested Readings-**

1. Bhagwan Vishnoo and Bhushan Vidya, Indian Administration, New Delhi: S.Chand, 2010.
2. Bidyut Chakrabarty and Prakash Chand, Indian Administration, New Delhi: Sage, 2019.
3. Hoshiar Singh and Pankaj Singh, Indian Administration, UP: Pearson, 2011.
4. Laxmikanth M., Governance in India, Tata McGraw Hill, New Delhi, 2011.
5. Maheshwari S.R, Indian Administration, New Delhi: Orient BlackSwan, 2001.

**Assignment**

Field project based on MCGM's Complaint Registration system (1916 Project) is mandatory for internal assessment of papers of Semester III- Introduction to Public Administration (SIUAPOL32) and Semester IV- Indian Administration (SIUAPOL42)

**Group Name: Youth**  
**M - West Ward [Chembur West]**  
**Total Questionnaires filled - 47**



Assessed *RAB*



**Group Members -  
Roll Number:**

Aahilya Seshadri (Group Coordinator)	SA2223208
Sharvi Ambekar	SA2223201
Shruti Yatnalkar	SA2223205
Hashika Odapalli	SA2223211
Bansi Patel	SA2223213
Saraswati Chandat	SA2223218
Nidhi Sawant	SA2223219
Purba Panjee	SA2223226
Samika Singh	SA2223231
Vidhya Sayikrishnan	SA2223232
Shreya Parekh	SA2223236
Prisha Patil	SA2223237
Srishti Poojary	SA2223238
Brabina Rajendran	SA2223242
Josna Brigit Sijin	SA2223243
Narmada Swamydas	SA2223261
Stacey Singh	SA2223282
Jayshree Bhandari	SA2223037
Tiara Homem	SA2223088
Niharika Sheike	SA2223096

01

**Objective and method of conducting survey.**

02

**Introduction about the ward.**

03

**Analysis/Story, Impact of Awareness.**

04

**Questions and it's Graphs.**

**Civic Problems faced**

**Trends Noticed.**

**1916 complaints, responses, specific complaints.**

**Key learnings and self criticism.**

16/20  
RSD  
Dr. Rashmi Bheune

**Conclusion, way forward.**

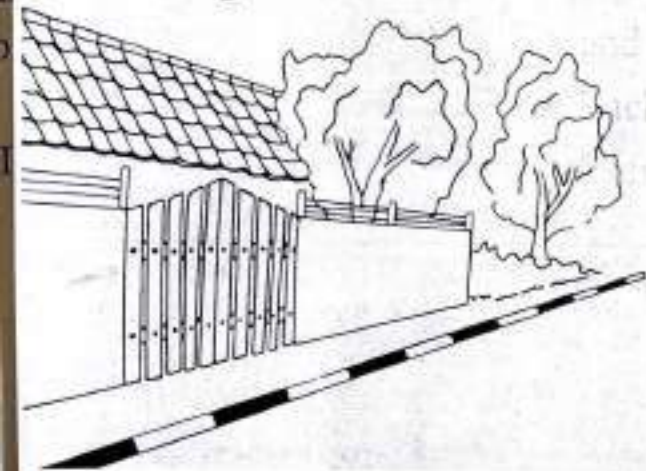
## Objective and method of conducting survey.

The objective of this project was to:

- To understand the functioning and administration of the local urban government of Mumbai.
- To survey the common grievances in our areas.
- To learn about the complaint management system of our municipal corporation.
- As citizens, to actively participate in bettering our localities and challenge the efficiency of our local government.

Method of conducting a survey:

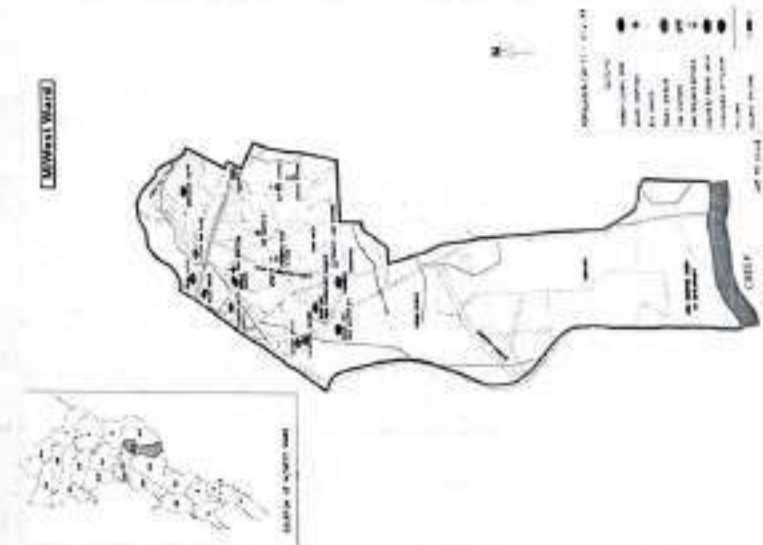
- To better our understanding of our project, surveys were conducted by the group.
- To carry out our surveys, our group of twenty was further divided into four sub-groups, each sub-group surveying a specific area of the ward.
- Surveys were taken face-to-face by interviewing participants, and there was a diversity of people interviewed from a varying age range, to occupation and societal status.
- Each member conducted a minimum of two interviews.





## Introduction about the Ward

- Mumbai is a metropolitan city, anointed as 'The City that never Sleeps' and 'The City of Dreams'. It is one of the most populated cities in India. Mumbai is also known as India's financial and commercial capital.
- Chembur is a large and upcoming suburb in central Mumbai. It is a high-functioning and fast-developing zone, well connected to other areas through the Eastern Freeway. There are many gated communities, prominent schools, and colleges in the area. The addition of metro lines coming up to connect west to central to harbor line suburbs makes it an even more coveted spot to live.
- The ward assigned to us is M - West/ Chembur West. It consists of ward number 150 to 155 and the total area is 19.37 Sq Km. The exact area where the ward extends to is: East Boundary extends up to W T Patil Marg, GM Link Road, West Boundary extends up to 48" Tansa Pipeline. North Boundary extends to Somaiya Nullah, and South Boundary extends to Mahul Creek.
- The elected representatives of the respective wards in M - West are Ward 150 - Sangeeta Chandrakant Handore, Ward 151 - Rajesh Omprakash Fulwariya, Ward 152 - Asha Subhash Marathe, Ward 153 - Anil Ramchandra Patankar, Ward 154 - Mahadeo Shankar Shivgan, Ward 155 - Shrikant Govind Shetye.





## Analysis & Impact of Awareness

The sample population that we interviewed consisted of mainly lower middle-class sections and they were the ones primarily getting more impacted by the problems that were prevailing in the areas of M ward.

It was surprising that they had considerably more awareness about the local councilor's name and the ward location, etc. Some of them had lodged some complaints earlier.

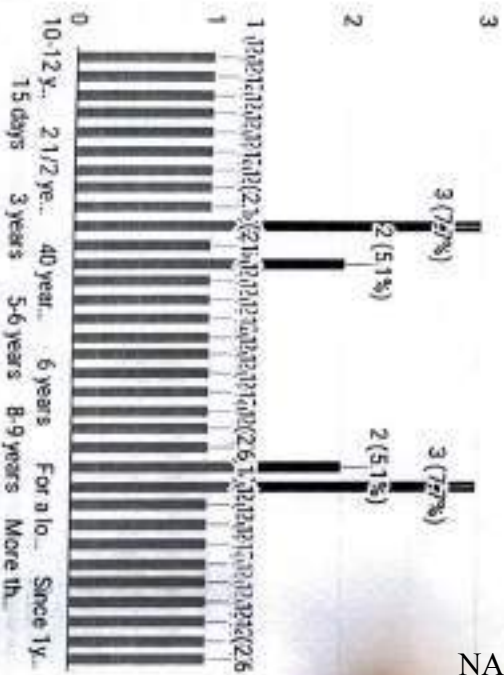
The other section of people were completely unaware of the concept of 1916 and they were the ones who claimed that the issues they have been facing are prevalent for years.

The remaining set of responses raised the following concerns :

- They weren't sure about the process of filing a complaint & following up on it.
- They were expecting that the BMC services would overlook their issues.
- Some said that multiple complaints have been lodged but there isn't any improvement

How long have you been facing this issue?

39 responses





## **Syllabus**

**Faculty: Science**

**Program: B.Sc.**

**Subject: ENVIRONMENTAL SCIENCES**

Academic Year: 2022-2023

**F.Y.B.Sc. Class**

**Credit Based Semester and Grading Syllabi  
to be brought into effect from 2022- 2023**

## PREAMBLE

Environmental Sustainability is one of the dominant issues and challenges of the 21<sup>st</sup> century, as the over growing needs of the galloping global population increasingly pressing up against the limits of the earth's resources and ecosystems. At the same time, policy makers increasingly believe that an environmentally literate workforce is critical to the long-term success and profitability, with better environmental practices and improved efficiencies impacting positively on the bottom line while helping to better position the country and conserve the natural resources for the future. A key component of an environmentally sustainable country is a highly educated work force, with thorough knowledge of theoretical and practical aspect of environmental sciences.

B.Sc. in Environmental Science is an undergraduate, interdisciplinary course wherein learning is imparted to eligible candidates in concepts such as sustainable resource development, environmental pollution control and , management among others. This 3- year long course is divided into six semesters, with each semester lasting for a period of six months. The students opting for three years will be graduated with Bachelors Degree.

The course combines aspects of Biology, Ecology, Geography, Chemistry, Natural Resource Management, Environment Management etc. Students are taught to develop scientific knowledge and techniques needed to understand environmental patterns and processes to investigate ecosystems and address local and global environmental issues, besides investigating how Environmental Science is directly related to the human society.



## PROGRAM OUTCOMES

<b>PO 1</b>	<b>Solving Complex Problems:-</b> Apply the knowledge gained in breaking down complex problems into simple components; and to design processes required for problem solving.
<b>PO 2</b>	<b>Critical Thinking:-</b> Ability to apply the acquired knowledge to identify assumptions and evaluate their accuracy and validity.
<b>PO 3</b>	<b>Reasoning ability and Rational thinking:-</b> Ability to analyse, interpret data and draw logical conclusions; to evaluate ideas rationally.
<b>PO 4</b>	<b>Research Aptitude:-</b> Ability to ask relevant questions to identify and define the problem, applying research tools for analysis and interpretation of data. Understand and comply with research ethics.
<b>PO 5</b>	<b>Effective Communication skill:-</b> Demonstrate the ability to listen and to clearly express ideas verbally. Equip to write reports, make presentations effectively.
<b>PO 6</b>	<b>Information and Digital Literacy:-</b> Equip to use appropriate tools and techniques inclusive of internet and electronic media for acquiring, assessing and analyzing data from diverse resources.
<b>PO 7</b>	<b>Social Interactive Skills and team work:-</b> Exhibit networking and social interactive skills; function effectively as an individual and as a member in diverse groups; demonstrate leadership quality useful for employability
<b>PO 8</b>	<b>Self-directed and Lifelong Learning:-</b> Ability to explore and gain knowledge in independent and self reliant ways. Demonstrate ability to adapt and upgrade with the global , social and technological changes.

## PROGRAM SPECIFIC OUTCOMES

PSO1	<b>Sound Knowledge:</b> Enlighten themselves with the core concepts of environment and ecology which will enable them to apply these at the higher levels in their career in various industries.
PSO 2	<b>Critical and Rational Thinking:</b> Exhibit higher order skills to adapt to the ever-changing technological environment.
PSO 3	<b>Applicability skills:</b> The ability to apply the knowledge gained to find solutions for the growing environmental problems and contribute to betterment of the environment.
PSO 4	<b>Interdisciplinary correlation:</b> Learn to correlate the concepts of one branch with the other and come out with interdisciplinary approaches and resolve the global concerns pertaining to the environment.

PSO 5	<b>Empathetic Learning:</b> Understand the global needs and prepare themselves for the changing needs worldwide adapting an ability to engage in life- long learning.
PSO 6	<b>Sustainable Development Goals:</b> Become a responsible, ethical citizen and explore environmental issues to develop sustainable solutions for it.
PSO 7	<b>Field and Laboratory skills:</b> The program will expose the students to observe environmental issues in the field, learn appropriate sample collection skills and laboratory analysis using sophisticated instruments and techniques.
PSO 8	<b>Pursue Higher Education:</b> Make students competent to take up advanced degree courses such as M.Sc. Environmental Science, M.Sc. Wildlife & Biodiversity management, MBA, Short term and Certificate courses, etc.

## SEMESTER II

### PRACTICALS

COURSE CODE	TITLE	CREDITS	NOTIONAL HOURS
EVSP 208	<b>Environmental Chemistry</b>	<b>2</b>	<b>30</b>
<ol style="list-style-type: none"> <li>1. Physico-Chemical Parameters (Colour, Temperature, Turbidity) for Characterizing and Evaluation of Water Quality.</li> <li>2. Determination of Hydrogen Ion Concentration (pH) of Water and Wastewater.</li> <li>3. Estimation of Total Solids, Total Dissolved Solids, Total Suspended Solids by gravimetric method of Water and Wastewater.</li> <li>4. Estimation of Conductivity of Water and Wastewater.</li> <li>5. Estimation of Chlorides of Water and Wastewater by Argentometric Method.</li> <li>6. Estimation of Alkalinity of Water and Wastewater.</li> <li>7. Estimation of Acidity of Water and Wastewater.</li> <li>8. Estimation of Total Hardness of Water and Wastewater.</li> <li style="background-color: yellow;">9. Soil sampling methodology by quartering method.</li> <li>10. Analysis of Soil <i>with respect to</i> following significant parameters. <ol style="list-style-type: none"> <li>i. Determination of Bulk Density of Soil.</li> <li>ii. Determination of Moisture Content of Soil.</li> <li>iii. Determination of Water Holding Capacity of Soil.</li> <li>iv. Determination of Soil Texture of Soil.</li> </ol> </li> </ol>			

References:

- Standard methods for examination of water and waste water , American Public Health Association.
- A comprehensive laboratory manual for Environmental Sciences and Engineering By P.R. Sreemahadevan Pillai. New Age International Publishers.
- Chemical and biological methods for water pollution studies By R.K. Trivedi
- Handbook of water and waste water analysis By S.K. Maiti.
- Soil and air analysis by S.K. Maiti.

COURSE CODE	TITLE	CREDITS	NOTIONAL HOURS
EVSP 209	Ecology and Biodiversity	2	30
<ol style="list-style-type: none"> <li>1. Determination of requisite size of the quadrant for vegetation analysis.</li> <li>2. Determination of diversity indices in plant communities.</li> <li>3. Determination of Chlorophyll content from plant species.</li> <li>4. Determination of Harvest method from plant species.</li> <li>5. Identification of rocks and minerals on the basis of physical characters</li> <li>6. Quantitative measurement of plankton in fresh and marine water samples.</li> <li>7. Determination of primary productivity by light and dark bottle method.</li> <li>8. Indicate distribution range of a plant and animal species identified as endangered on an Indian map.</li> <li>9. Prepare a map of Maharashtra showing Protected Area Network (PAN) in it.</li> </ol>			

References:

- A comprehensive laboratory manual for Environmental Sciences and Engineering By P.R. Sreemahadevan Pillai. New Age International Publishers.

### EVALUATION SCHEME

The performance of the learner shall be evaluated into TWO Parts. The learner's performance shall be assessed by Internal Assessment of 40 Marks and Semester End Examination (theory) of 60 Marks for each term. Practical examination will be conducted at end of each semester for 300



**Marks.** The allocation of marks for the Internal Assessment and Semester End Examinations are as follows:- Internal Assessment – 40 Marks There will be two internal assessment tests 20 Marks each – one will be centralized and other will be departmental.



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Maharashtra - 400022.  
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### **CERTIFICATE**

This is to certify that Tejashree Panchal of T.Y.BMS. has successfully completed a project on A Study on Brand Management elements to help build Brand Loyalty – Starbucks for the Semester – VI under the guidance of Ms. Supriya Shetty during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**

**External Examiner**



**College Seal**



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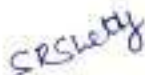
### CERTIFICATE

This is to certify that Ms. Snehal Sunil Parab of T.Y.BMS has successfully completed a project on A Comparative Study on Consumer Perception of Happydent and Center Fresh in Mumbai city for the Semester - VI under the guidance of Ms. Supriya Shetty during the academic year 2022 -2023.

  
Coordinator

  
Project Guide

  
Principal

  
Internal Examiner

  
External Examiner



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### **CERTIFICATE**

This is to certify that Athulya Satheesh of T.Y.BMS. has successfully completed a project on A Study on Credit Cards and Consumers Perception towards Credit C for the Semester – VI under the guidance of Asst. Prof. K.Saravanan Nadar during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**



**College Seal**

**External Examiner**



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### **CERTIFICATE**

This is to certify that Isaac Dsouza of T.Y.BMS. has successfully completed a project on Internship based at IGP.com for the Semester – VI under the guidance of Ms. Deepika Gawade during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**

**External Examiner**



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Maharashtra - 400022.  
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### **CERTIFICATE**

This is to certify that VIJAY THEVAR of T.Y.BMS. has successfully completed an Internship based on Wipro Insurance Solution for the Semester – VI under the guidance of Ms. Deepika Gawade during the academic year 2022 -2023.

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**External Examiner**



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**CERTIFICATE**

This is to certify that Trisha Ramesh Nadar of T.Y.BMS. has successfully completed a project on "A study on consumer awareness about green marketing in IKEA." for the Semester – VI under the guidance of Ms. Supriya Shetty during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**



**College seal**

**External Examiner**



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Maharashtra - 400022.  
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***CERTIFICATE***

This is to certify that Sanjana Mhatre of T.Y.BMS. has successfully completed a project on “Study on senior citizens’ perspective on Digital banking” for the Semester – VI under the guidance of **Asst. Prof. K.Saravanan Nadar** during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**



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Jain Society, SIES Ln. Sion West, Mumbai,  
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*NAAC Reaccredited - 'A' Grade*

### **CERTIFICATE**

This is to certify that Varun Kadam of T.Y.BMS. has successfully completed a project on A Study on the Impact of Marketing Activities on the Sales of Zomato for the Semester – VI under the guidance of Ms. Deepika Gawade during the academic year 2022 -2023.

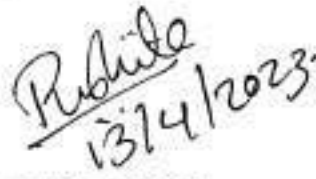
  
**Coordinator**

  
**Project Guide**

  
**Principal**

  
**Internal Examiner**



  
**External Examiner**

**College Seal**





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Maharashtra - 400022.

*NAAC Reaccredited - 'A' Grade*

***CERTIFICATE***

This is to certify that **Tanisha Kaur Bubber** of T.Y.BMS. has successfully completed a project on A study on awareness of claim settlement process in life insurance sector for the Semester – VI under the guidance of **Asst. Prof. K.Saravanan Nadar** during the academic year 2022 -2023.

**Coordinator**

**Project Guide**

**Principal**

**Internal Examiner**

**External Examiner**



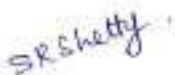
**College Seal**

**CERTIFICATE**

This is to certify that **Paloma Varghese** of T.Y.BMS has successfully completed a project on '**A Study of the Role of Government Initiatives in Promoting Electric Vehicles in India**' for the Semester – VI under the guidance of **Ms. Supriya Shetty** during the academic year 2022 -2023.



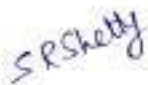
**Coordinator**



**Project Guide**



**Principal**



**Internal Examiner**



**External Examiner**



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T.Y.B.A.M.M.C. SEMESTER VI - Advertising 2022-2023

ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

---

(Name of the Brand - Product)

**Akoustik - Headphones**

---

SUBMITTED BY

---

**Akshath Sivaprasad Namboodiri**

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**TMM2223037**

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FOR THE DEGREE OF THE BACHELOR OF ARTS IN  
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(Autonomous)

T.Y.B.A.M.M.C. SEMESTER VI - Advertising 2022-2023

ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

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(Name of the Brand - Product)

**Epoch- Smart Watch**

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SUBMITTED BY

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**Riya Gulab Mishra**

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**TMM2223035**

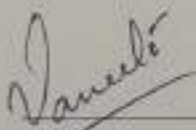
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FOR THE DEGREE OF THE BACHELOR OF ARTS IN

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UNIVERSITY OF MUMBAI-SIES AUTONOMOUS SION WEST

UNDER THE GUIDANCE OF



(PROGRAM COORDINATOR)



(INTERNAL GUIDE)



(EXTERNAL EXAMINER)



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SIES College of Arts, Science & Commerce, Sion (West)  
(Autonomous)

T.Y.B.A.M.M.C. SEMESTER VI - Advertising 2022-2023

ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

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(Name of the Brand - Product)

NextLevel - Gaming Accessories

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SUBMITTED BY

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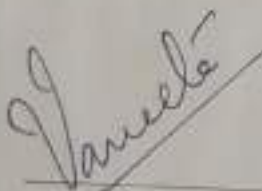
Roshni Ramashankar Saroj

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TMM2223057

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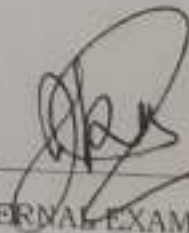
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ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

Pawfect - Cat food

(Name of the Brand - Product)

SUBMITTED BY

Athira Musalidhozan Pillai

(Name of the Student)

TMH2223046

(Full Roll Number)

---

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**T.Y.B.A.M.M.C. SEMESTER VI - Advertising 2022-2023**

**ADVERTISING DESIGN [Project Paper]**

**Advertising Campaign Portfolio**

ON

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(Name of the Brand - Product)

Gladden TV- Smart TV

SUBMITTED BY

---

Revathi Pillai

Full Roll Number

TMM2223048

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ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

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(Name of the Brand - Product)

Magnifique - Heels

SUBMITTED BY

---

Rashi Paresh Rachh

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TMM2223052

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ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

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(Name of the Brand - Product)

**Busy Kanya- Office Bags**

---

SUBMITTED BY

---

**Aaditi Jitendra Rane**

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**TMM2223054**

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ADVERTISING DESIGN [Project Paper]

Advertising Campaign Portfolio

ON

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(Name of the Brand - Product)

Hairnity- Hair Oil

SUBMITTED BY

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Rukmini Anantha Narayanan

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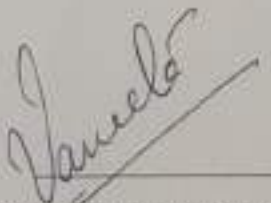
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**T.Y.B.A.M.M.C. SEMESTER VI – Advertising 2022-2023**

**ADVERTISING DESIGN [Project Paper]**

**Advertising Campaign Portfolio**

ON

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(Name of the Brand - Product)

Heritage Hues – Ethnic wear

SUBMITTED BY

---

Akanksha Phadnis

---

TMM2223045

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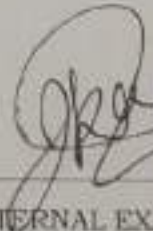
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T.Y.B.A.M.M.C. SEMESTER VI - Journalism 2022-2023

NEWSPAPER AND MAGAZINE DESIGN [Project Paper]

Print Journalism Portfolio

ON

The Times Journal, Safar

(Name of the Broadsheet, Tabloid & Magazine)

SUBMITTED BY

Renuka. D. Mudaliar

(Name of the Student)

TMM2223092

(Full Roll Number)

FOR THE DEGREE OF THE BACHELOR OF ARTS IN  
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T.Y.B.A.M.M.C. SEMESTER VI - Journalism 2022-2023  
NEWSPAPER AND MAGAZINE DESIGN [Project Paper]  
Print Journalism Portfolio

ON

The News Journal, Dark Hour - Where everything shines.  
(Name of the Broadsheet, Tabloid & Magazine)

SUBMITTED BY

Belcia James Nadar.

(Name of the Student)

TMM2223093

(Full Roll Number)

FOR THE DEGREE OF THE BACHELOR OF ARTS IN  
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UNIVERSITY OF MUMBAI-SIES AUTONOMOUS SION WEST  
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T.Y.B.A.M.M.C. SEMESTER VI - Journalism 2022-2023  
NEWSPAPER AND MAGAZINE DESIGN [Project Paper]

Print Journalism Portfolio

ON

THE BHARAT TIMES , AHAAM

(Name of the Broadsheet, Tabloid & Magazine)

SUBMITTED BY

Diya Shetty

(Name of the Student)

TMM2223097

(Full Roll Number)

FOR THE DEGREE OF THE BACHELOR OF ARTS IN  
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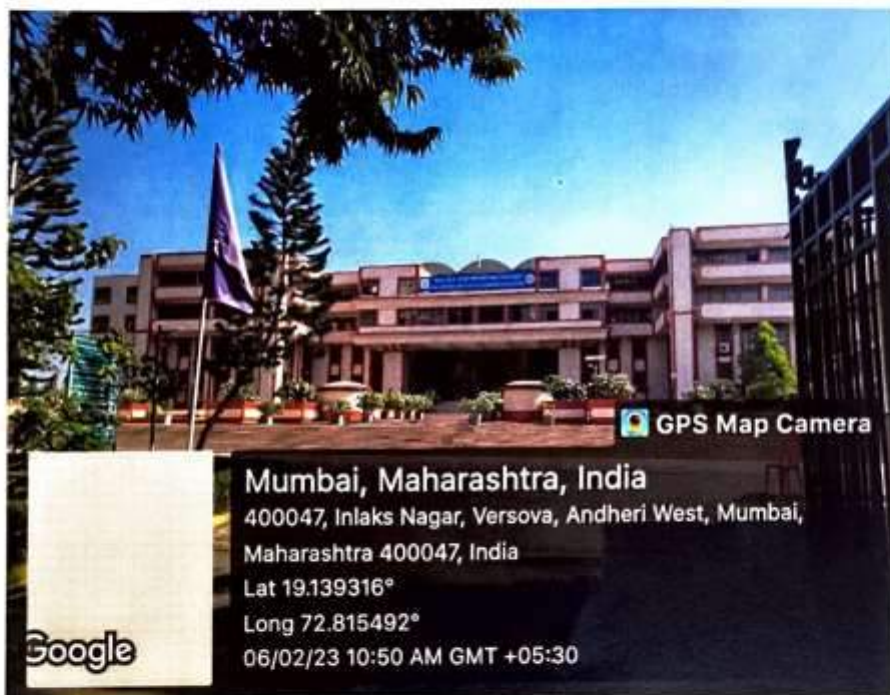
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**DEPARTMENT OF ZOOLOGY**

**COMPLETION CERTIFICATES OF THE FIELD VISIT  
REPORTS**

**ACADEMIC YEAR 2022-2023**

**A visit to Central Institute of Fisheries Education (CIFE)**



**Aishath Thahira**

**MSc Part-2**

**SMZOO2223- 010**

**Oceanography**

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SION (WEST), MUMBAI – 400 022.

**CERTIFICATE**

Class :- MSc-II Div.:- \_\_\_\_\_ Roll No. SMZ002223010

This is to certify that Mr./Miss/ Mrs.

AISHATH TAHIRA

has completed in satisfactory manner an excursion /  
course in ZOOLOGY on the lines laid down  
by the UNIVERSITY OF MUMBAI and that  
this field note book / Journal represents his/her  
bonafide work during the year 22-23

PK  
15/2/23  
Staff Member In-charge

SR  
11/4/23  
Head, Department of Zoology

Date: - 15/02/2022

01 APR 2023



**VISIT TO CENTRAL INSTITUTE OF FISHERY EDUCATION (CIFE)**



**Name : Asma khan**  
**Class : MSc-II**  
**Roll no : SMZOO2223004**  
**OCENOGRAPHY**  
**DATE: 06-02-2023**

S.I.E.S.COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS),  
DEPARTMENT OF ZOOLOGY  
SION (WEST), MUMBAI – 400 022.

**CERTIFICATE**

Class :- M.Sc-II Div. :- - Roll No. SMZOD2223004

This is to certify that Mr./Miss/ Mrs.

Asma. Khan

has completed in satisfactory manner an excursion /  
course in ZOOLOGY on the lines laid down  
by the UNIVERSITY OF MUMBAI and that  
this field note book / Journal represents his/her  
bonafide work during the year 2022-2023

*Abhaya Akerkar*  
11/4/2023

*PK*  
15/2/23  
Staff Member In-charge

*SK*  
11/4/23  
Head, Department of Zoology

Date: - 15/02/2023

01 APR 2023

## Visit to Ferry Wharf.

By Gayatri Nair

8th September 2022.

Ferry Wharf, Mumbai Port Trust, Maharashtra.

A visit was done to Ferry Wharf, popularly known as Bhaucha Dhakka, the biggest fish market of Mumbai, by a group of students of Sies College of Arts Science and Commerce including M.Sc. 1<sup>st</sup> and 2<sup>nd</sup> year and two assistant professors Mr. Avdesh Ram and Prathmesh Kulkarni. The visit was a part of internal activity. Visit was done on the day before Anant Chaturthi.



Appropriate time to visit such fish market is early morning because all the fishes will be sold out by 9:00- 9:30 AM. All students as well as professors reached Sandhurst Road Railway station at 6:45 AM in morning then took a taxi to reach Mumbai Port Trust and reached there at somewhere around 7:30 AM. They spent approximately 3 hours there.

When headed towards the main area, one could see small stalls providing breakfast. As entered the main market, only sight was people rushing here and there for buying and selling fishes as these morning hours are the peak time of their business. The place was unhygienic and noisy and a typical smell of fishes was all around. The dock was surrounded by water and numerous ships and boats were loading and unloading fishes. There were fishermen/ woman who had great knowledge of their selling species, but some were least interested in describing about it, even some were willing to give a



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CERTIFICATE

Class: MSc-II Div: - Roll No. SMZ002223004

This is to certify that Mr/Miss/Mfs. Gayatri Nair

has completed in satisfactory manner an Excursion/Study tour course in ZOOLOGY on the lines laid down by the UNIVERSITY OF MUMBAI and that this Field visit report/Field project report/Field note book/Journal represents his/her bonafide work during the academic year 2022-2023.

  
Staff Member In-charge

  
Head, Department of Zoology

Date: 22/09/2022



# **FIELD REPORT ON FERRY WHARF VISIT (BHAUCHA DHAKKA)**



**SUBMITTED BY: ASMA KHAN  
CLASS: MSc PART II  
ROLL NO: SMZ002223004  
SEMESTER III  
OCEANOGRAPHY  
Date:08-09-2022**

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS)  
DEPARTMENT OF ZOOLOGY  
SION (WEST), MUMBAI- 400 022


CERTIFICATE

Class: Msc Part II Div: - Roll No. SMZ002223004

This is to certify that Mr./Miss/Mrs. Asma Khan

has completed in satisfactory manner an Excursion/Study tour course in ZOOLOGY on the lines laid down by the UNIVERSITY OF MUMBAI and that this Field visit report/Field project report/Field note book/Journal represents his/her bonafide work during the academic year 2022-2023.

  
Staff Member In-charge

  
Head, Department of Zoology

Date: 22/09/22

# **FIELD REPORT ON FERRY WHARF VISIT (BHAUCHA DHAKKA)**

**DATE:08-09-2022**



**SUBMITTED BY: MUNIRA BANO JAVED ALI SHAIKH  
CLASS: MSc PART II  
ROLL NO: SMZOO2223009  
SEMESTER III  
OCEANOGRAPHY  
Date:08-09-2022**

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS)  
DEPARTMENT OF ZOOLOGY  
SION (WEST), MUMBAI- 400 022

**CERTIFICATE**

Class: MSC-II Div: - Roll No. SMZ002223009

This is to certify that Mr./Miss/Mrs. Munira Band Javed Ali Shaikh

has completed in satisfactory manner an Excursion/Study tour course in ZOOLOGY on the lines laid down by the UNIVERSITY OF MUMBAI and that this Field visit report/Field project report/Field note book/Journal represents his/her bonafide work during the academic year 2022-2023.



Staff Member In-charge



Head, Department of Zoology

Date: 22/09/2022





**SIES College of Arts, Science and Commerce  
(Autonomous)**

**Sion (West) Mumbai: 400022**

**Affiliated to Mumbai University**

**Syllabus under Autonomy - June 2018**

**Program: T. Y. B.Sc. (AC)**

**Course: Horticulture and Gardening**

**Choice Based Credit System (CBCS)**

**with effect from the academic year 2018-19**

### **PREAMBLE**

The existing university syllabus of T.Y.B.Sc. AC – Horticulture and Gardening is due for revision as per the CBCS pattern and the revised syllabus will be implemented from the academic year 2018-2019 under autonomy.

In the revised autonomous syllabus, the committee has taken utmost care to maintain the continuity in the flow of information at T.Y.B.Sc. level. Hence, some of the modules of the existing university syllabus have been upgraded with the new modules to introduce the learners to the recent developments in various branches of Horticulture and Gardening.

All the papers of theory and practicals (Semester - V & Semester - VI together) are compulsory to the students according to their specialization.

Each theory period shall be of 48 minutes duration. Theory component shall have 60 instructional periods/semester. Each practical will be of 4 periods and one period is of 48 minutes duration.

### **MODALITY OF ASSESSMENT:**

#### **Theory Examination Pattern**

A. Internal Assessment – 40M (20M Class Test + 15M Assignment/Case study/ ppt. + 05 Class participation)

B. External examination – 60M (Semester End Theory Assessment)

i. Duration - These examinations shall be of two hours duration.

ii. Theory question paper pattern: Attached herewith.

#### **Practical Examination Pattern:**

A. Internal Examination: There will not be any internal examination/ evaluation for practicals.

B. External (Semester end practical examination with Journal, Field Report & Field Project submission [SIUSACHORP51, SIUSACHOR62])

The students are required to present a duly certified journal, field report and field project for appearing at the practical examination, failing which they will not be allowed to appear for the examination. In case of loss of Journal and/ or Excursion Report/ project, a Lost Certificate should be obtained from Head of the Department/ Co-ordinator of the department; failing which the student will not be allowed to appear for the practical examination.

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

**DEPARTMENT OF BOTANY**

**TYBSc APPLIED COMPONENT – HORTICULTURE AND GARDENING 2022-23**

**LIST OF RESEARCH PROJECT TITLES**

<b>ACADEMIC YEAR 2022-23</b>			
<b>No. of Students = 22</b>			
<b>SR. NO.</b>	<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>PROJECT TITLE</b>
1.	TS2223437	Nayak Prasad Ganapathi	Soil analysis
2.	TS2223438	Ankita Singh	Qualitative analysis of green loop (pure hydroponic nutrient – LEAFY 200)
3.	TS2223440	Chaitrali Deshpande	Different styles of dish garden
4.	TS2223441	Geethanjali Jayaraj	Cultivation of vegetable using hydroponics
5.	TS2223445	Naziya Bano Ansari	Cultivation of tomato, bitter gourd and chilli
6.	TS2223446	Sajida Ansari	Cultivation of potato, ginger, garlic
7.	TS2223449	Farzeen Shaikh	Herbal bottle garden
8.	TS2223451	Khan Zeenat Bano	Kitchen waste composting
9.	TS2223452	Siddhesh Kolambkar	Cultivation of microgreens
10.	TS2223453	Krithi Poojary	Olericulture of spring onion, okra and brinjal
11.	TS2223455	Sahaya Steffie	Cultivation of spices
12.	TS2223456	Shaikh Shabina	Cultivation of medicinal plants (Neem, ginger, turmeric)
13.	TS2223457	Manasi Shettigar	Fruit carving
14.	TS2223458	Vidhi Thakur	Cultivation of mint, carrot and coriander

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**DEPARTMENT OF BOTANY**

**TYBSc APPLIED COMPONENT – HORTICULTURE AND GARDENING 2022-23**

**LIST OF RESEARCH PROJECT TITLES**

15.	TS2223459	Pooja Yadav	Nursery management
16.	TS2223479	Jyotsna Boddu	Fruit beverages
17.	TS2223490	Rachana Machha	Cultivation of vegetable crops like moong, matki and chawli
18.	TS2223491	Naijya Naik	Apiculture
19.	TS2223492	Nirmiti Tanpure	Fruit processing – jams and jellies
20.	TS2223493	Ritika Gupta	Artificial methods of plant propagation
21.	TS2223518	Mamata Panigrahi	Landscape gardening
22.	TS2223519	Pavithra Kalirathinam	Natural insecticides

**Teacher In-charge  
TYBSc – AC**

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**Dr. Mahavir Gosavi  
Head of The Department of Botany**



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SION (WEST), UMBAI – 400 022  
DEPARTMENT OF BOTANY**

**CERTIFICATE**

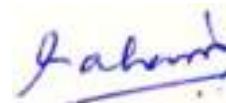
**Class:** TY BSc \_\_\_\_\_ **Division:** -C \_\_\_\_\_ **Roll No.:** TS2223437 \_\_\_\_\_

This is to certify that Mr. NAYAK PRASAD GANAPATHI has completed in satisfactory manner an excursion course in HORTICULTURE on the lines laid down by the college and that this field note book represents his/her bonafide work during the year 2022-2023 \_\_\_\_\_ for Semester - V \_\_\_\_\_.



**Staff Member In-charge**

**Date:** 23/09/2022.



**Head, Department of Botany**  
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Head of The Department of Botany

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SION (WEST), MUMBAI – 400 022

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**CERTIFICATE**

Class: TYBSc [Botany] Division: C Roll No.: TS2223438

This is to certify that,

~~Mr./Miss/Mrs.~~ ANKITA KAMLESH SINGH has completed in satisfactory manner a project work in HORTICULTURE on the lines laid down by the college and that this project report represents his/her bonafide work during the year 2022 - 2023 for the Semester - V.



**Staff Member In-charge**

Date: 22/9/22



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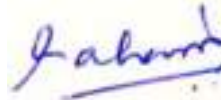
CERTIFICATE

Class: TYBSc-AC Division: - C Roll No.: TS2223440

This is to certify that Mr./Miss/Mrs. Chaitrali Deshpande has completed in satisfactory manner a project work in HORTICULTURE on the lines laid down by the college and that this project report represents his/her bonafide work during the year 2022-23 for the Semester - V.



Staff Member In-charge



Head, Department of Botany

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
(Autonomous)

Date: 21/09/22

Dr. Beharilal Joshi  
Head of The Department of Botany

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**CERTIFICATE**

Class: TYBSC Division: - C Roll No.: TS2223441

This is to certify that **Mr./Miss/Mrs.**  
GEETHANJALI JAYARAJ has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-2023 for the Semester - 5.

  
Staff Member In-charge

Date: 22/09/22

  
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Head of The Department of Botany



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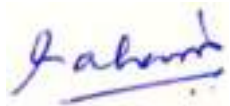
CLASS: T.Y. BSC DIV.: C ROLL.NO. T.6.2223445

This is to certify that Mr./Miss/Mrs Ansari Naziya Bano Naushad Ali has completed in satisfactory manner an excursion course in Botany (Horticulture) on the lines laid down by the University of Mumbai and that this field notebook represents his / her bonafide work during the year 22 - 23.



Staff Member In-charge

Date: 23/09/22



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**CERTIFICATE**

**Class: T.Y.BSC Division: - C Roll No.: TS22223446**

This is to certify that **Mr./Miss/Mrs.**  
**Ansari Sajida Aklakh** has completed in satisfactory manner a project work in  
HORTICULTURE on the lines laid down by the college and that this project report  
represents his/her bonafide work during the year **2022 To 2023** for the Semester **-V**

  
**Staff Member In-charge**

**Date: 23/09/22**

  
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Head of The Department of Botany**



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CERTIFICATE

Class: TYBSC

Division: - C

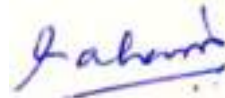
Roll No.: TS2223449

This is to certify that Mr./Miss/Mrs.  
Farzeen Shaikh has completed in satisfactory  
manner an excursion course in HORTICULTURE on the lines laid down by the  
college and that this field note book represents his/her bonafide work during the  
year 22-23 for Semester - V.



Staff Member In-charge

Date: 20/09/22



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CERTIFICATE

Class: T.Y.B.Sc Division: - C Roll No.: TS2223451

This is to certify that Mr./Miss/Mrs.  
Khan Zeenat Bano Abdul Rauf has completed in satisfactory  
manner an excursion course in HORTICULTURE on the lines laid down by the  
college and that this field note book represents his/her bonafide work during the year  
2022-2023 for Semester - V.



Staff Member In-charge

Date: 22/09/22.

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Class: TYBSc Division: - C Roll No.: TY2223452

This is to certify that Mr./Miss/Mrs.  
Kolambkar. Siddhesh. Dnyaneshwar has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-23 for the Semester - V.

Rohini Avande  
Staff Member In-charge

Date: 23/09/22

J. Avande  
Head, Department of Botany  
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Head of The Department of Botany

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**CERTIFICATE**

**Class:** TYBSC      **Division:** - C      **Roll No.:** TS2223453

This is to certify that **Mr./Miss/Mrs.**  
POOJARY KRITHI KITTA has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-2023 for the Semester - V.

  
**Staff Member In-charge**

**Date:** 23/09/22

  
**Head, Department of Botany**  
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CERTIFICATE

Class: TYBSC

Division: - C

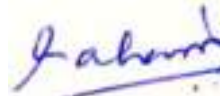
Roll No.: TS2223455

This is to certify that Mr./Miss/Mrs.  
Sahaya Steffie M William has completed in satisfactory  
manner an excursion course in HORTICULTURE on the lines laid down by the  
college and that this field note book represents his/her bonafide work during the  
year 2022-2023 for Semester - V.



Staff Member In-charge

Date: 23/9/22



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CERTIFICATE

Class: TYBSC Division: - C Roll No.: TS2223456

This is to certify that Mr./Miss/Mrs.  
SHABINA SHAIKH has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-2023 for the Semester - V.

Shabina Sheikh  
Staff Member In-charge

Date: 23/09/2022.

Jabir  
Head, Department of Botany  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
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Dr. Mahavir Gosavi  
Head of The Department of Botany



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DEPARTMENT OF BOTANY

CERTIFICATE

Class: TYBSc Division: C Roll No.: TS2223457

This is to certify that Mr./Miss/Mrs.  
MANASI GIRIDHAR SHETTIGAR has completed in satisfactory  
manner an excursion course in HORTICULTURE on the lines laid down by the  
college and that this field note book represents his/her bonafide work during the  
year 2022 - 23 for Semester - V.

  
Staff Member In-charge

Date: 19/9/22

  
Head, Department of Botany  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
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Dr. Mahavir Gosavi  
Head of The Department of Botany

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SION (WEST), MUMBAI – 400 022

DEPARTMENT OF BOTANY

CERTIFICATE

Class: PYBSC Division: - C Roll No.: TS 2223458

This is to certify that Mr./Miss/Mrs.  
VODHT. KIRAN. THAKUR. has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022 - 2023 for the Semester - V.

  
Staff Member In-charge

Date: 23/09/22

  
Head, Department of Botany  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
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Dr. Mahavir Gosavi  
Head of The Department of Botany

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**DEPARTMENT OF BOTANY**

**CERTIFICATE**

Class: TYBSc Division: - C Roll No.: 152223459

This is to certify that Mr./Miss/Mrs.  
POUJA PRAMOD YADAV has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-23 for the Semester - Sem V.

Sushil A. Wale  
Staff Member In-charge

Date: 23/09/22

J. Abund  
Head, Department of Botany  
SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
(Autonomous)

Dr. Mahavir Gosavi  
Head of The Department of Botany

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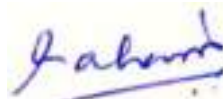
CERTIFICATE

Class: TYBSC Division: - C Roll No.: TS 2223479

This is to certify that Mr./Miss/Mrs.  
JYOTSNA BODDU has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022 - 2023 for the Semester - V.

  
Staff Member In-charge

Date: 22/09/22

  
Head, Department of Botany  
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Dr. Mahavir Gosavi  
Head of The Department of Botany



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SION (WEST), MUMBAI – 400 022  
DEPARTMENT OF BOTANY**

**CERTIFICATE**

Class: TYB.SC Division: - C Roll No.: TS2223490

This is to certify that Mr./Miss/Mrs.  
RACHANA RAMESH MACHHA has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022 - 23 for the Semester - V.

  
Staff Member In-charge

Date: 20/09/2022

  
Head, Department of Botany

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Head of The Department of Botan

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**SION (WEST), MUMBAI – 400 022**

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**CERTIFICATE**

**Class:** TYBSC **Division:** - C **Roll No.:** TS2223491

This is to certify that **Mr./Miss/Mrs.**  
NAIYA NAGESH NAIK has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-23 for the Semester - V.

  
**Staff Member In-charge**

**Date:** 22/09/2022

  
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Head of The Department of Botany

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SION (WEST), MUMBAI - 400 022

DEPARTMENT OF BOTANY

CERTIFICATE

Class: NYBSC Division: C Roll No.: TS2223492

This is to certify that Mr./Miss/Mrs. NIMPTI. KATLAS. TANPURE has completed in satisfactory manner a project work in HORTICULTURE on the lines laid down by the college and that this project report represents his/her bonafide work during the year 2022-2023 for the Semester - V.

  
Staff Member In-charge

Date: 23/9/22

  
Head, Department of Botany  
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CERTIFICATE

Class: T.Y.B.Sc. Division: - C Roll No.: TS2223493

This is to certify that -Mr./Miss/Mrs.  
Ritika Gupta has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022 - 23 for the Semester - V.

  
Staff Member In-charge

Date: 23/09/22

  
Head, Department of Botany  
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Dr. Mahavir Gosavi  
Head of The Department of Botany



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**CERTIFICATE**

**Class:** TYBSc-AC

**Division:** C

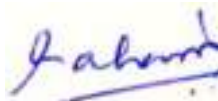
**Roll No.** TS2223518

This is to certify that Miss Mamata Panigrahi has completed in satisfactory manner a project in HORTICULTURE on the lines laid down by the College and this work represents her bonafide work during the year 2022-23 for Semester – V.



**Staff Member In-charge**

**Date:** 23/09/22



**Head, Department of Botany**

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Head of The Department of Botany**

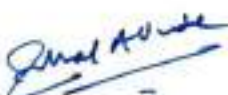
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SION (WEST), MUMBAI – 400 022**

**DEPARTMENT OF BOTANY**

**CERTIFICATE**

Class: TYBSC      Division: - C      Roll No.: T32223519

This is to certify that **Mr./Miss/Mrs.**  
PAVITHRA KALIRATHINAM has completed in satisfactory  
manner a project work in HORTICULTURE on the lines laid down by the college  
and that this project report represents his/her bonafide work during the year  
2022-2023 for the Semester - V.

  
Staff Member In-charge

Date: 22/09/22

  
Head, Department of Botany

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE  
(Autonomous)

Dr. Mahavir Gosavi  
Head of The Department of Botany