



BHARATI VIDYAPEETH COLLEGE OF
ENGINEERING FOR WOMEN, PUNE



**Aashay Measurements
Private Limited**
Measurement & Instrumentation Solutions



Memorandum of Understanding


This Agreement is being executed on 1st of July 2023 between Aashay Measurements Pvt. Ltd. having its Registered office at #1, 'Flyview' Behind Bank Of Maharashtra Near Flyover bridge Warje, Pune - 411 052, Maharashtra - India. And represented by Mr. Rakesh Nalawade is hence known as "Delivery Partner" and Department of Electronics & Telecommunication Engineering, Bharati Vidyapeeth's College of Engineering for Women, Pune-43 represented by Prof. Dr. S.R. Patil is hence known as "Resource Partner".

1. This is an academic MOU with no commercial commitments from either side.
2. The Objective is to improve Industry-Institute interaction by promoting technical activities such as Internship, Mini and final year projects, Industrial visit etc. under the framework of delivery partner.
3. Delivery Partner will provide professional Internship program for TE E&TC and BE E&TC students based on Industry requirements and as per the demand from the Resource Partner.
5. The Duration of internship for TE student is 2 to 3 months while for BE students is 4 to 6 months.
4. Resource Partner would allocate appropriate time slots as per the academic schedule for the mentioned internship program offered by the Delivery Partner.
5. The tenure of the contract would be from 1st of July 2023 to 30th June 2024 i.e. for One Year.
6. The duration of the internship may increase as per the level of participants.
7. Delivery Partner will provide industry experienced trainers to conduct the training before internship.
8. The certificates to the enrolled participants will be issued on successful completion of the training and evaluation process by the Delivery Partner.
9. A minimum lead time of 1 month will be required to start the Internship from the date of signing of the agreement.
10. Activities conducted under this MOU will be purely as per the need, requirement and interest of the student.


Mr. Rakesh Nalawade

Aashay Measurements Pvt. Ltd

 
Prof. Vinod Mulik Prof. Anil Yadav
Coordinator
BVCOEW, Pune


Prof. Dr. S.R. Patil
HOD E&TC and TC Principal
BVCOEW, Pune



BHARATI VIDYAPEETH'S

COLLEGE OF ENGINEERING FOR WOMEN, PUNE

Pune-Satara Road, Dhankawadi, Taluka – Haweli, Dist.- Pune

Accredited by NAAC, Affiliated to Savitribai Phule Pune University (SPPU)

Approved by DTE. Govt. Of Maharashtra and AICTE, New Delhi

DTE Institute Code-EN6285, Pun Code-PU/PN/Engg. /150/2000

E-mail: -coewpune@bharativedyapeeth.edu

Website: - <http://coewpune.bharativedyapeeth.edu>

Academic Year - 2023-24

List of Activities for MOU with Aashay Measurement Pvt. Ltd

Sr.No.	Activity details	Start date	End date	Number of participants
1	Internship for students	15/12/2023	13/01/2024	30

Mr. Rakesh Nalawade

Staff Coordinator

Prof. Vinod Mulik

Name and Sign

Prof.A.P.Yadav

Prof. Dr. P. V. Jadhav



PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



#1, 'Flyview', Behind Bank of Maharashtra Warje, Off. Warje Flyover Bridge, Warje, Pune – 411052.
Cell : 7798400270, rakesh@aashaymeasurements.com

Certificate of Internship

Date : 15th Jan 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Rutuja Laxmikant Diwakar**, student, TE (E&TC), Bharati Vidyapeeth's College of Engineering for Women's, Pune has successfully completed an internship at Aashay Measurements Private Limited, Pune, from **15th December 2023 to 15th January 2024**.

During the course of the project **Ms. Rutuja Laxmikant Diwakar** was proactively involved in manufacturing.

We are satisfied by her performance and we wish her all success for her future endeavors.

Yours faithfully,

Aashay Measurements Private Limited, Pune

A handwritten signature in black ink, appearing to read 'Rakesh', is written over a horizontal line.



Authorised Signatory

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Bharati Vidyapeeth's College of Engineering for Women , Pune
AND
Akshay Embedded Systems Private Limited

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on 1st day of Month July 2023 by and between

Bharati Vidyapeeth's College of Engineering for Women , Pune (herein after referred to "BVCOEW", the First Party represented herein by its Principal, BVCOEW, And Akshay Embedded Systems Private Limited ,The Second party and represented herein by Mr. Akshay Kharche, Director, Akshay Embedded Systems Private Limited

WHEREAS:

A) First Party is a Higher Educational Institution named: **BVCOEW ,**

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education, Placement, Industrial Visit, Internship, Expert Lecture.

D) **Akshay Embedded Systems Private Limited** - the Second Party is engaged in manufacturing of Electronic Controllers.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:



A handwritten signature in blue ink, appearing to be "Akshay", with a long diagonal stroke extending upwards and to the right.

CLAUSE 1

CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.
- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

CLAUSE 2

SCOPE OF THE MoU

- 2.1 Industrial Training & Visits: Industry and Institution interaction will provide an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. This will provide confidence & smooth transition for students work. Also the Second party may register on the AICTE Internship Portal for the benefit of students.
- 2.2 Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- 2.3 Placement of trained students: second party will actively engage to help the delivery of the training and placement of the students of the first party on the technology trends and in house requirements.
- 2.4 There is no financial commitment on the part of the **BVCOEW**, the first party to take up any program mention in MoU. If there is any financial consideration, it will be dealt separately.
- 2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

CLAUSE 3

VALIDITY

- 3.1 Duration of MOU is 1st July 2023 to 31st May 2024. This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Part.



A handwritten signature in blue ink, appearing to be "Amu", with a long horizontal line extending to the right.

CLAUSE 4

RELATIONSHIP BETWEEN THE PARTIES

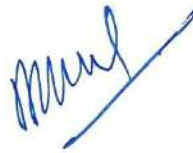
5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.



Prof. S. M. Thorat

Coordinator , BVCOEW

First Party



Mr. Akshay Kharche

Director , Akshay Embedded
Systems Pvt. Ltd.

Second Party



Principal

Prof. Dr. S.R. Patil
I/C PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



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Website: - <http://coewpune.bharatividyaapeeth.edu>

Academic Year - 2023-24

List of Activities for MOU with Akshay Embedded Systems Pvt. Ltd.

Sr.No.	Activity details	Start date	End date	Number of participants
1	Internship for students	15/12/2023	13/01/2024	2

Prof. S. M. Thorat

MoU Coordinator

Prof. Dr. P. V. Jadhav

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.





Date: 20th January 2024.

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Student of E&TC Department **Miss.Ketaki Sunil Todkar (Enrolment No- 72293282E)** from Bharati Vidyapeeth's College of Engineering for Women, Pune has successfully completed his Industrial Training at Akshay Embedded Systems Pvt Ltd, Baner from period 18th Dec 2023 to 18th Jan 2024.

She has provided training "Schematic designing using Orcad and layout designing using Coreldraw, component assembly, visual of both SMD and THT PCB of various products.

She is interested in learning new concepts.

Thanking You,

Yours truly,

Mr. Kishor Kurawle
(HOD-HR)



MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Bharati Vidyapeeth College of Engineering for Women, Pune

AND

Ergen Technovation Pvt. Limited

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 23rd day of Month July, 2023 by and between.

Bharati Vidyapeeth College of Engineering for Women, Pune, the First Party represented herein by its Principal **BVCOEW** And **Ergen Technovation Pvt. Limited** the Second party, and represented herein by its CTO, **Mr.Nityanand Prabhu Tendulkar**, **Ergen Technovation Pvt. Limited**.

WHEREAS:

A) First Party is a Higher Educational Institution named: **BVCOEW**

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education, Placement, Industrial Visit, Expert Lecture.

D) **Ergen Technovation Pvt. Limited** - the Second Party is engaged in providing internship opportunities for the students under focusing creating co-curricular products for the students.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

CLAUSE 1

CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
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- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

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2.4 There is no financial commitment on the part of the **BVCOEW**, the first party to take up any program mention in MoU. If there is any financial consideration, it will be dealt separately.

2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

CLAUSE 3

VALIDITY

3.1 Duration of MoU is from June 1, 2023 to May 31, 2024 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Part.

CLAUSE 4

RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.


Prof. M.S. Kasar


Coordinator


Prof. V.P. Mulik


Mr. Nityanand Prabhu Tendulkar

CTO, Ergen Technovation Pvt. Limited




Prof. Dr. S.R. Patil

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Academic Year - 2023-24

List of Activities for MOU with Ergen Technovation Pvt. Ltd

Sr.No.	Activity details	Start date	End date	Number of participants
1	Internship for students	15/12/2023	13/01/2024	30
2	Start up pitch compition TECHNOPHILIA'24 Name of Event: "INNOVENTURE"	04/04/2024	04/04/2024	22

Mr.Nityanand Prabhutendolkar

Staff Coordinator
Prof. Vinod Mulik
Name and Sign

Prof.M.S.Kasar

Prof. Dr. P. V. Jadhav



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College of Engineering for Women
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Start-up Idea Competition Report

TECHNOPHILIA'24

Name of Event: “INNOVENTURE”

Date: 4th April 2024

The startup idea competition “Innoventure” under the start-up cell held on 4th April 2024 was a pivotal event showcasing innovation and entrepreneurial spirit among participants from diverse backgrounds. This initiative aimed to foster creativity and identify promising ventures poised to address contemporary challenges in the industry/sector.

Participants presented a wide array of innovative ideas, demonstrating their potential to disrupt markets and create sustainable solutions. Judged on criteria such as feasibility, scalability, and market relevance, the competition not only provided a platform for aspiring entrepreneurs to showcase their ingenuity but also facilitated networking opportunities and mentorship crucial for their future development in the startup ecosystem.

We received a very positive response from this event. A total of 22 groups participated in this competition. The field from which the startup ideas can emerge is not limited to engineering alone; there are many other avenues as a result, the number of participants included individuals from various fields, including engineering.

With the excellent guidance of the judges, everyone gained courage, Confidence, and a great deal of motivation. The judges who attended were highly intelligent and experienced. They conducted a thorough observation, ensuring the comprehensive support of each participating student by asking a variety of different questions.

Thus, the whole event was conducted in a very nice manner, and at the very end, we got our Future Sharks from BVCOEW.



Idea Presentation by Participant



Winners of the Competition



Inauguration of Innoventure 2023-24

Rules:

1. Group of 2-4 people or Individual Participation.
2. Duration 3-5 mins.
3. PPT Presentation should be related to the startup idea only.
4. Vision and Mission should be specified.
5. Ideas, Societal problems, and solutions should be properly specified.
6. Product, Market, total addressable market.

Venue: Room 307

Prize Money:

1st: - 5000/-

2nd:- 3000/-

3rd:- 2000/-

Registration Fees: For groups: Rs.200/-

Faculty Coordinators: Prof .V.P.Mulik- 9766051015

Prof.A.P.Yadav 8087607856

Prof.M.S Kasar- 8698565141

Student Coordinator: Trupti Yadav - 7769037562

Volunteers: Mansha Joshi - 9022787390

Dhanashri Hogale - 9850235352

Sanji Pardeshi - 7820862766

Kirti Pawar - 9960311338

Rajashri Khetmalis - 8857082354

Megha Salunke - 9322694846

Madhuri Sonawane - 9689211230

Judges Name: 1. Mr. Nityanand Prabhu-Tendulkar-9028406136

2. Mr. Rakesh Nalawade- 7798400270

Registration/ Attendance OF "INNOVENTURE (Technical Quiz)"


on Date: 04/04/2024

Sr. No.	Name of the Group and Students	Institute Name
1	Prem Dharme	Sinhagad Institute of Technology, Lonavla
2	Bits and Bytes: 1. Sanika Firke 2. Harshada Garad	BVCOEW
3	Illuminati 1. Vaishnavi Waykaskar 2. Srushti Mule 3. Shriya Lakhe 4. Megha Salunke	BVCOEW
4	Shubham Jadhav	Jaywant Institute of Management, Wathar, Karad
5	Dynamic Duo 1. Avantika Kamale 2. Trupti Kamruti	BVCOEW

6	FarmaTail 1. Dhanshri Thorat 2. Neha Warghane 3. Purva Sarange	BVCOEW
7	Victory Vangaurds 1. Manas Bangul 2. Ishan Randive 3. Rahul 4. Vaishnavi Pawar	Vishwakarma Institute of Technology, Pune
8	Craftprenuer Mom 1. Mansha Joshi	BVCOEW
9	Lady bugs 1. Vrunda Bohra 2. Aishwarya Bhansali 3. Arya Choudhary 4. Tejaswini Chandargi	BVCOEW
10	WPV 1. Ganesh Khose 2. Sakshi Tikone	Jaywantrao Sawant College of Engineering
11	Market attractive Startup 1. Sakshi Kachare	BVCOEW
12	Maverick Minds 1. Sanskruti Patil 2. Shyamal Patil 3. Mohammad Shaikh	BVCOEW
13	Mobis 1. Ashutosh Seth	BV(DU)COEP
14	Pixel Pioneers 1. Prajakta Bose 2. Saba Sayyad 3. Prachi Kad	BVCOEW
15	Progress Chasers	BVCOEW
	1. Durgeshwari Bhaisade 2. Sukhada Bhosale	BVCOEW
16	Apsite 1. Ankit Raj 2. Somya Kumari 3. Ashwini kr oja	BV(DU)COEP
17	Tech Vertex 1. Tanushree Velapure 2. Om Vastre	BVCOEW
18	Tech Thinkers 1. Trupti Pacharne 2. Shreya Nilakh 3. Anuja Borate	BVCOEW

	4. Shreya Mohite	
19	TechTitans 1. Blayna Fernandes 2. Muskan Gujar 3. Shravani Shinde	BVCOEW
20	The Mavericks 1. Ananya Wagh 2. Snehal Shinde 3. Nikita Wadghule	BVCOEW
21	Tech Wizards 1. Mridula Sokashi 2. Sammrudhi Shinde 3. Sammrudhi Patil 4. Sakshi Zagade	BVCOEW
22	Boolean Hooligans 1. Malishka Salke 2. Ankita Swain	BVCOEW


 Staff Coordinator
 Prof. Vinod Mulik
 Name and Sign


Prof. Dr. P. V. Jadhav

PRINCIPAL
 Bharati Vidyapeeth's
 College of Engineering for Women
 Pune-Satara Road, Pune-411043.



Date: 12/02/2024

EXPERIENCE LETTER

TO WHOM EVER IT MAY CONCERN

This is to certify that Miss Niharika Naik. has worked with us for the period from December 15, 2023, to January 13, 2024. he worked as intern in Testing Department at the time of leaving service. During his association with the company, we observe him to be a sincere and hardworking to the best of our knowledge and belief and he bears good moral character and conduct.

We wish him all the best in his future endeavour.

Yours sincerely

A rectangular box containing a handwritten signature in dark ink. The signature appears to be "Skulkarni" written in a cursive style.

Team HR
Ergen Technovation Pvt Ltd

Ergen Technovation Private Limited

CIN : U34300PN2022PTC210839 | GSTN : 27AAHCE0164H1Z5

Corporate Office : Sr.No.143, Opp. Greenfield Hotel, Sinhagad Road, Vadgaon Dhayari, Pune – 411041.

www.ergen.co | info@ergen.co



Internship Report

*A report submitted in partial fulfillment of the requirements for the Award of Degree
of*

BACHELOR OF ENGINEERING

in

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Submitted by

NIHARIKA RAJENDRA NAIK

Under the Guidance of

PROF.V.P.MULIK

ACADEMIC YEAR

2023-24

**DEPARTMENT OF ELECTRONIC AND TELECOMMUNICATION
ENGINEERING**

**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING FOR
WOMEN PUNE(43)**




CERTIFICATE

This is to certify that the “**Internship report**” submitted by **Niharika Naik** is work done by her under the mentorship of **PROF.V.P.MULIK** and submitted during 2023-24 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF Engineering in Electronic and Telecommunication ENGINEERING**, at **Ergen Technovation Private Limited**.


Staff Coordinator
Prof. Vinod Mulik
Name and Sign




Prof. Dr. S.R. Patil
HOD (E&TC)
Head of the Department
Electronic & Tele Communication
College of Engineering for Women
Pune - 411043

Acknowledgement

With an immense pleasure and satisfaction, I am presenting this internship report as part of curriculum of Third Year Electronics & Telecommunication Engineering – 2019 course of Savitribai Phule Pune University, Pune in the academic year 2022-23. I wish to express my sincere gratitude towards all those who have extended their support right from its commencement to its completion. Also, I would like to extend our thanks to our Internship **Mentor Prof. V.P.Mulik** and our internship coordinator Prof. R.M .Shamlik for their valuable suggestions and feedback throughout internship work. I am also grateful to respected Prof. **Dr.S. R. Patil**, Principal, Bharati Vidyapeeth's College of Engineering for Women, Pune, for his support and guidance that has helped to expand horizons of thought and expression.

I would like to thank the Almighty, who has always guided me to work on the right path of internship. I acknowledge with deep sense of gratitude and most since reappreciation, the valuable guidance and unfailing encouragement rendered to me by “**Prof. Dr.S.R.Patil**” Head of Department and other design staff for their proficient and enthusiastic guidance, useful encouragement and immense help.

I also wish to extend my thanks to **Miss. Purva Ma'am** for their insightful comments and constructive suggestions to improve the quality of this training. I wish to extend my sincere gratitude to “**Mr. Nityanand Prabhu Tendulkar, CEO**” for their guidance, encouragement and valuable suggestions which proved extremely useful and helpful in completion of this industrial training.



Index

S.no	Content	Page No.
1.	Introduction.....	1
2.	Company overview.....	2
3.	Internship Details.....	6
4.	Learning Objective.....	7
5.	Weekly overview.....	9
6.	Detailed Information.....	11
7.	Challenges Faced.....	14
8.	Conclusion.....	17
9.	Appendices.....	19
10.	References.....	22



Introduction

The dynamic landscape of Electric Vehicle (EV) technology and Power Electronics forms the backdrop for this comprehensive internship report, documenting my immersive experience at Ergen Technovation Private Limited. Established in 2016, Ergen Technovation is a forward-thinking company engaged in the wholesale trading, manufacturing, distribution, and retailing of cutting-edge products, including Battery Chargers, BLDC Ceiling Fans, Power Adapters, and more. This internship, undertaken from December 15, 2023, to January 13, 2024, positioned me as a Student Intern within the Testing team. The primary objective was to cultivate a profound understanding of testing methodologies, protocols, and tools within the electronics and power electronics domain. The company's commitment to "Technically Right" practices, transparent operations, and adherence to values resonated with my academic pursuits.

The report unfolds in subsequent sections, beginning with an overview of Ergen Technovation, delving into its core philosophies, and highlighting key products that underscore its innovative approach in the EV and power electronics sector. The subsequent sections detail the specifics of my internship, encompassing role delineation, departmental assignment, and the overarching objectives set for this period. As a student intern, my responsibilities extended to hands-on involvement in the testing of diverse products, aligning with the company's commitment to delivering reliable and advanced technology solutions. The narrative unfolds to capture the learning outcomes, challenges faced, achievements, and contributions made during this enriching stint. Throughout this report, I aim to articulate the essence of my internship experience, offering insights into the valuable knowledge gained, skills honed, and the symbiotic relationship formed between academic learning and real-world application. This journey was facilitated by the unwavering support of the leadership team, dedicated supervisors, and collaborative colleagues in the Testing team. Embarking on this exploration of my internship at Ergen Technovation, I invite readers to delve into the nuanced details of a dynamic industry, the company's ethos, and my personal growth in navigating the intricacies of testing methodologies within the realm of electric vehicle technology and power electronics.

2. Company Overview

Logo :



Company Name : Ergen Technovation Private Limited

Established : 2016

Industry and Sector : Electric Vehicle Technology and Power Electronics

Business Activities :

Ergen Technovation Pvt Ltd is a dynamic company engaged in the wholesale trading, manufacturing, distribution, and retailing of various products, including Battery Chargers, BLDC Ceiling Fans, Power Adapters, and more. The company focuses on meeting customer expectations by delivering high-quality products. They operate with moral business policies, ensuring transparency in all transactions to maintain healthy customer relations.

Company Philosophy :

Ergen Technovation Pvt Ltd is an Electric Vehicle (EV) Tech and Power Electronics Company founded by a dedicated team of technocrats. Their approach is centered on doing things "Technically Right." With a strong engineering foundation, the company is committed to delivering reliable and technologically advanced products and services. They take pride in transparency, honesty, and adherence to values. The company is passionate about technology, continuously improving and providing superior products. Constant learning and evolution with technology are considered key factors for success and growth in the competitive market.

Key Products:

- **Battery Charger**



- **Electric Vehicle Charger**



- **BLDC Fan Controller**



- **DC to DC Converter**



- **Rechargeable Torch Battery**



3. Internship Details

Internship Position or Role : Student Intern

Department or Team Assigned to : Testing Area

Duration of the Internship : December 15, 2023, to January 13, 2024

Internship Objectives or Goals :

As a Student Intern in the Testing team, the main objective is to develop a comprehensive understanding of testing methodologies, protocols, and tools within the electronics and power electronics domain. This may involve hands-on experience with testing various products related to the company's focus, such as battery chargers, BLDC ceiling fans, power adapters, and other power electronics components.

Specific Projects or Responsibilities :

During the internship, I had the opportunity to contribute to the Testing team's efforts. This included:

- Conducting tests on electronic and power electronics products.
- Collaborating with team members to ensure the quality and reliability of products.
- Learning and applying various testing methodologies and protocols.
- Analyzing test results and providing valuable insights to enhance product performance.



4. learning Objectives

1. Understanding Testing Methodologies :

- Develop a theoretical foundation in various testing methodologies relevant to the electronics and power electronics field.
- Explore industry-standard testing practices and procedures.

2. Practical Experience with Testing Tools :

- Gain hands-on experience with state-of-the-art testing tools used in the industry.
- Learn to operate, troubleshoot, and interpret results from testing equipment.

3. Conducting Tests on Electronic Products :

- Participate in the planning and execution of tests on electronic and power electronics products.
- Learn to create test plans, set up testing environments, and execute test cases.

4. Collaboration with Testing Team :

- Work closely with experienced professionals within the Testing team.
- Engage in team discussions and collaborative problem-solving related to testing challenges.

5. Analyzing Test Results :

- Develop skills in analyzing and interpreting test results.
- Gain the ability to identify defects, anomalies, and areas for improvement in product performance.

6. Providing Valuable Insights :

- Actively contribute insights and observations to the Testing team.
- Participate in discussions to propose improvements to enhance overall product quality.

7. Professional Communication :

- Enhance communication skills within a professional setting.
- Learn to effectively communicate testing results and recommendations to team members.

8. Documentation Practices :

- Develop proficiency in documenting test procedures, results, and any issues encountered.
- Understand the importance of maintaining comprehensive records in the testing process.

These learning objectives were pursued with the aim of not only acquiring technical skills but also fostering a holistic understanding of the role of testing in ensuring the quality and reliability of electronic products within the company.



5. Weekly overview

Week 1 (December 15-21, 2023)

- **Orientation and Introduction :**

- Received an introduction to the company's mission, vision, and core values.
- Acquainted with the Testing team members and their roles.

- **Training on Testing Methodologies :**

- Engaged in training sessions covering fundamental testing methodologies.
- Explored theoretical aspects of testing in the electronics and power electronics domain.

- **Familiarization with Testing Tools :**

- Introduced to various testing tools used in the industry.
- Began hands-on exercises to familiarize oneself with operating testing equipment.

Week 2 (December 22-28, 2023)

- **Hands-On Testing Activities :**

- Started actively participating in testing activities under the guidance of the Testing team.
- Conducted initial tests on electronic products to apply theoretical knowledge.

- **Collaborative Work :**

- Engaged in team discussions to understand ongoing projects.
- Collaborated with team members to set objectives and goals for the internship.

- **Feedback and Guidance :**

- Received feedback from team members on performance and areas for improvement. Guidance provided on refining testing techniques and approaches.

Week 3 (December 29, 2023 - January 4, 2024)

- **Advanced Testing Procedures :**

- Advanced to more complex testing procedures and scenarios.
- Gained exposure to specialized testing protocols in the power electronics field.

- **Project Involvement :**

- Participated in specific projects within the Testing team.
- Took on additional responsibilities related to project requirements.

- **Mid-Internship Review :**

- Conducted a mid-internship review with supervisors.
- Discussed progress, achievements, and areas for further development.

Week 4 (January 5-13, 2024)

- **Independent Testing Assignments :**

- Undertook independent testing assignments to showcase acquired skills.
- Demonstrated proficiency in setting up and executing test cases.

- **Final Project Contributions :**

- Contributed to the final stages of ongoing projects within the Testing team.
- Worked on analyzing comprehensive test results and providing insights.

- **Wrap-Up and Conclusion :**

- Finalized documentation of completed testing activities.
- Participated in a concluding meeting with the Testing team for feedback and evaluation.

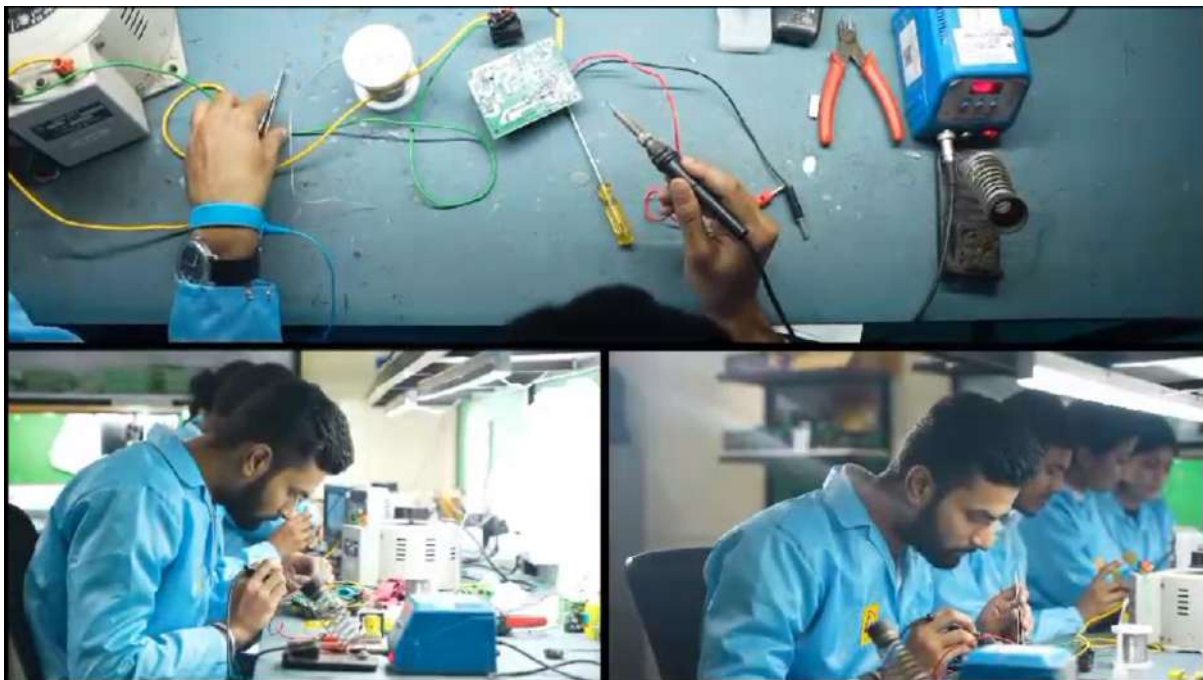


6.Detailed Information

Testing Electronic Products at Ergen Technovation Pvt Ltd



At Ergen Technovation Pvt Ltd, the process of testing electronic products is a meticulous and multifaceted undertaking designed to ensure the highest standards of quality and reliability. As a student intern within the Testing team, my exposure to this intricate process provided valuable insights into the importance of thorough testing in the electronics and power electronics domain.



Overview of Testing Methodologies:

The testing process commences with a comprehensive understanding of testing methodologies. During the initial weeks of the internship, I engaged in theoretical training sessions, delving into the principles of testing electronic products. This foundation included an exploration of industry-standard methodologies, covering aspects such as functionality, performance, and reliability testing.

Hands-On Experience with Testing Tools:

One of the key components of effective testing is the utilization of state-of-the-art testing tools. The company emphasizes hands-on experience with various tools used in the industry. I underwent training to operate and interpret results from tools such as oscilloscopes, multimeters, and specialized testing devices. This practical exposure contributed significantly to my proficiency in employing testing tools effectively.

Conducting Tests on Electronic Products:

The heart of the testing process involves actively participating in the planning and execution of tests on electronic products. I collaborated with the Testing team to create detailed test plans, outlining the scope, objectives, and methodologies for each testing phase. This phase of the internship provided the opportunity to work with a diverse range of electronic products, including battery chargers, BLDC ceiling fans, power adapters, and SMPS.

Dry Testing: Understanding the Concept:

Dry testing, a critical aspect of the overall testing process, involves assessing the functionality and performance of electronic products under normal operating conditions without the use of external stimuli. This method allows for the simulation of real-world scenarios to ensure that products meet or exceed specified standards.

In the context of battery chargers, for example, dry testing involves evaluating charging efficiency, voltage regulation, and overall performance without connecting an actual battery. This simulation is crucial for identifying potential issues and optimizing the charging process.

Collaborative Testing Environment:

A distinctive aspect of the testing process at Ergen Technovation is the collaborative environment within the Testing team. Engaging in team discussions, I gained insights into ongoing projects, shared observations, and participated in problem-solving sessions. This collaborative approach ensures that diverse perspectives contribute to the overall quality assurance process.

Analysis and Reporting:

After conducting tests, the subsequent step involves a meticulous analysis of results. I developed skills in analyzing and interpreting test results, identifying potential defects, and providing detailed reports. This analytical phase is critical for making informed decisions regarding product improvements and ensuring that products meet the highest quality standards.

Conclusion:

My internship at Ergen Technovation Pvt Ltd provided an immersive experience in the testing of electronic products, from theoretical foundations to practical application. The exposure to dry testing and the collaborative testing environment enriched my understanding of the significance of quality assurance in the dynamic field of electronics and power electronics.



7. Challenges Faced

Identifying and addressing challenges during an internship is an integral part of the learning experience. Here's a discussion of potential challenges you might have faced during your internship at Ergen Technovation Pvt Ltd

1. Technical Complexity :

- **Challenge :** Grappling with the technical intricacies of electronic product testing, especially in a dynamic field like power electronics, might have presented a steep learning curve.

- **Solution :** Engaged in continuous learning, sought guidance from mentors, and participated in additional training sessions to enhance technical knowledge.

2. Time Constraints :

- **Challenge :** Balancing the demands of testing projects within the specified timeframe could have been challenging, especially when working on multiple assignments simultaneously.

- **Solution:** Developed effective time management strategies, prioritized tasks, and sought assistance when necessary to meet deadlines.

3. Collaboration in a Remote Setting :

- **Challenge :** If the internship involved remote work, collaborating with team members and accessing necessary resources remotely might have posed challenges.

- **Solution:** Leveraged virtual communication tools effectively, scheduled regular check-ins with the team, and proactively communicated any issues.

4. Adapting to Company Processes :

- **Challenge :** Adjusting to the unique testing processes and methodologies employed by Ergen Technovation could have been initially challenging.

- **Solution** : Actively sought guidance from team members, attended training sessions, and adapted quickly by incorporating feedback.

5. Testing Complex Products:

- **Challenge** : Conducting tests on complex electronic products, such as EV chargers or advanced power adapters, might have presented challenges due to their sophisticated nature.

- **Solution** : Collaborated closely with experienced team members, sought guidance on product specifications, and focused on incremental learning to understand the intricacies.

6. Effective Communication:

- **Challenge** : Clearly and effectively communicating testing results and insights to team members and supervisors might have been challenging.

- **Solution** : Worked on improving communication skills, actively participated in team discussions, and sought feedback on presentation and reporting.

7. Handling Unforeseen Issues :

- **Challenge** : Dealing with unexpected issues during the testing process, such as equipment malfunctions or sudden changes in project requirements.

- **Solution** : Developed problem-solving skills, sought guidance from mentors, and embraced a flexible and adaptive mindset to handle unforeseen challenges.

8. Balancing Independence and Guidance :

- **Challenge** : Striking the right balance between working independently and seeking guidance from supervisors to ensure productivity and effectiveness.

- **Solution** : Regularly communicated progress with supervisors, asked for feedback, and demonstrated a proactive approach to problem-solving.

9. Remote Internship Social Isolation :

- **Challenge** : If the internship was conducted remotely, dealing with potential feelings of social isolation and missing out on the collaborative in-person work environment.

- **Solution** : Actively participated in virtual team-building activities, scheduled informal virtual meetings, and made an effort to connect with team members on a personal level.

Overcoming these challenges demonstrates resilience, adaptability, and a commitment to professional growth. Highlighting these experiences in your internship report can showcase your ability to navigate complex situations and learn from them.



8. Conclusion

The internship at Ergen Technovation Pvt Ltd has been a transformative journey, providing a profound learning experience in the dynamic realm of electronics and power electronics. Over the course of the internship, I had the privilege of immersing myself in the intricacies of testing methodologies, collaborating with a dedicated Testing team, and navigating through the challenges inherent in the field.

Key Learnings:

The internship afforded me the opportunity to deepen my understanding of testing protocols, utilize state-of-the-art testing tools, and actively contribute to the quality assurance process. From hands-on testing of diverse electronic products to engaging in collaborative problem-solving sessions, every aspect of the experience has contributed to my professional growth.

Challenges Faced and Overcome:

Encountering challenges, whether technical complexities or adapting to unique testing processes, became stepping stones for personal and professional development. Each challenge was met with a proactive mindset, continuous learning, and the invaluable guidance of mentors and team members. Overcoming these hurdles not only enhanced my technical skills but also strengthened my problem-solving abilities.

Achievements and Contributions:

Active involvement in testing complex electronic products, such as EV chargers and power adapters, provided a platform to showcase my skills. Contributions to projects, coupled with effective collaboration, fostered an environment of shared learning and achievement within the Testing team.

Reflections:

Reflecting on this experience, I am struck by the importance of constant learning and adaptability in the face of evolving technologies. The internship not only honed my technical competencies but also cultivated a deep appreciation for the collaborative spirit and dedication to excellence that defines Ergen Technovation Pvt Ltd.

Gratitude:

I extend my sincere gratitude to the entire Ergen Technovation team for their unwavering support, guidance, and mentorship throughout this internship. The knowledge and insights gained here will undoubtedly shape my future endeavors in the field of electronics and power electronics.

In conclusion, the internship has been an enriching chapter of professional growth, providing a solid foundation for a continued journey of learning and contributing to the ever-evolving landscape of technology.



9. Appendices







10. References

<https://ergen.co/>

<https://www.ergen.in/>

<https://in.linkedin.com/company/ergen-technovation>

<https://www.thecompanycheck.com/company/ergen-technovation-private-limited/U34300PN2022PTC210839>

<https://maps.app.goo.gl/XoV5xyMQzcyj374e26>



This Agreement is made and entered into as of June 23 by and between Veritas Software Technologies India Private Limited a Company having its registered office at Eon Free trade Zone, Wing 4, Cluster A, Plot no. 1, and Survey No. 77, MIDC knowledge park, Kharadi, Pune 411014 (hereinafter referred to as 'Company') which expression, unless repugnant to the context shall mean and include its successors and assigns, of the **FIRST PART**,

AND

Bharati Vidyapeeth's College of Engineering for Women (BVCOEW), a research and educational institution having its office at Bharati Vidyapeeth Campus, Dhankawadi, Pune-411043, Maharashtra, India (hereinafter referred to as 'BVCOEW'), which expression, unless repugnant to the context shall mean and include its successors and assigns, of the **SECOND PART**

AND

WHEREAS, both the above mentioned hereinafter referred to as "PARTY" individually and "PARTIES" collectively.

AND

WHEREAS, both the parties would like to encourage collaboration between Company and BVCOEW in the area of Industry relevant research projects for students and faculty including but not limited to Open Source software development, Industry specific course curriculum, Industry Expert lectures on Technology subjects, faculty and staff development programs more particularly described in Annexure-I.

WHEREAS BVCOEW and the Company have agreed that the final resultant product [if any] shall be co-authored by both the parties and made available under Apache [<https://www.apache.org/licenses/LICENSE-2.0>] or MIT [<https://opensource.org/licenses/MIT>] open source license for noncommercial and commercial purposes;

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS HEREINAFTER SET FORTH, THE PARTIES AGREE AS FOLLOWS:

Following departments will play major role in conducting various activities under this Agreement.

1. Department of Computer Engineering
2. Department of Electronics and Telecommunication
3. Department of Information Technology

ARTICLE 1 – DEFINITIONS

- 1.1 **Agreement** means this agreement including the recitals, any Schedule(s) and any Annexure(s).
- 1.2 **"Confidential Information"** means and all non-public information provided by one party to the other party or

otherwise learned by a party during the course of performance of this agreement including but not limited to the Employee and third party data, software programs, prices, processes, requirements, documentation, developments, financial, marketing and other business information, and any other material or information that is identified at the time of disclosure as confidential or proprietary or which otherwise one would reasonable expect to be confidential or proprietary.

- 1.3 **"Disclosing Party"** shall mean the Party to the Agreement, or its employees, agents and other authorized representatives disclosing the confidential information to the other Party to the Agreement, or its employees, agents and other authorized representatives.
- 1.4 **"Effective Date"** shall mean the date of fully executing this Agreement.
- 1.5 **"Field of Research"** shall mean the area of research as defined in the relevant Project.
- 1.6 **"Intellectual Property or IP"** means, whether subject to statutory protection or not, including but not limited to inventions; discoveries; manner, method or process of manufacture; biological material; patents; petty patents; utility models; drawings, know-how; prototypes, integrated circuit, circuit layout or semiconductor chip layout or design; plan, drawing or design; or scientific, technical or engineering information or document trademarks, copyright or other rights in the nature of copyright subsisting in any works; computer software (in source and object format); improvement, modification or development of any of the foregoing; trade secret, know-how, or right of secrecy or confidentiality in respect of any information or document and any similar right recognized from time to time in any jurisdiction.
- 1.7 **"Know-how"** means technical information of a proprietary nature which will be kept confidential.
- 1.8 **Open Source Software** is computer software that is available with source code: the source code and certain other rights normally reserved for copyright holders are provided under an open-source license that permits users to study, change, improve and at times also to distribute the software.
- 1.9 **Open Source License** is a license for computer software that makes source code available for everyone to use, review, modify, redistribute, and commercially use without having to pay the original author for e.g. MIT license, Apache license, etc..
- 1.10 **"Project"** shall mean a written proposal setting forth the research tasks and objectives to be performed under the terms of this Agreement pursuant to specific Statement of Work approved by the Parties more particularly described in Annexure-I.

1.11 **Receiving Party** shall mean the Party to the Agreement, or its employees, agents and other authorized representatives, receiving the confidential information from the other Party to the Agreement, or its employees, agents and other authorized representatives.

1.12 **"Term of the Agreement"**, which is the period for which this Agreement remains valid as specified in Article III unless terminated earlier pursuant to the Termination clause or extended further under written agreement by all the PARTIES or their duly authorized representatives.

1.13 **"Statement of Work"** means the research tasks and objectives to be performed.

ARTICLE-2: SCOPE OF WORK:

- 2.1 **Project:** Each Party agrees to contribute in the Project by performing its individual and joint roles and obligations. More specifically Parties shall be engaged in joint new ideas and prototype development & data storage and data protection industry research, collaborative courses offering by assisting faculties of BVCOEW related to data storage and data protection concepts, Open Source software development, data security etc, conducting joint workshops, seminars and technical symposia to provide a visibility to the Institute, provide project opportunities to students of BVCOEW as per company policy of Veritas to increase employability of BVCOEW students, and technical support by conducting expert lectures and sharing domain knowledge with each other.
- 2.2 **Staffing and Facilities:** BVCOEW will provide staff and facilities to conduct the project more particularly described in Annexure-I.
- 2.3 **Expenditure of Payments:** Not applicable
- 2.4 **Site Visits:** Upon reasonable notice, representatives of the Company may visit the Institute for purposes of meeting and talking with personnel engaged in the Project.
- 2.5 **Remedies:** The sole remedy for breach of any of the sections of this Article will be termination of this agreement.
- 2.6 **Freedom of Research:** The Company acknowledges that BVCOEW may engage in other research within a specific Field of Research funded by public or private sources and conducted separately, and the Company shall have no rights hereunder to such other research or resulting Intellectual property. The Institute hereby warrants that it shall not include and incorporate any technology and Intellectual Property resulting out of other research projects within a specific field of research into the project governed by this agreement.

ARTICLE-3: PERIOD OF PERFORMANCE

The period of performance of this Agreement will be from July 2023 to 30th June 2024 unless extended by mutual agreement or terminated in accordance with Article 09.

ARTICLE-4: PAYMENTS AND OTHER ARRANGEMENTS: NA

ARTICLE-5: CONFIDENTIALITY

- 5.1 In the performance of the Research, it may be necessary for one Party to receive information that is proprietary and confidential to the Disclosing Party. Such information disclosed by the Disclosing Party orally, or in any tangible form shall be considered Confidential Information and kept in strict confidence. Except as otherwise provided herein, for a period of three (3) years following the date of expiration or termination of this Agreement, the Receiving Party agrees to use the confidential information only for purposes of this Agreement and further agrees that it will not disclose or publish such information without the prior written consent of the Disclosing Party. However, it should become necessary to disclose confidential information, the parties shall execute a separate Non-Disclosure Agreement.
- 5.2 The Receiving Party must use a reasonable degree of care to prevent the inadvertent, accidental, unauthorized or mistaken disclosure or use by its employees of confidential information disclosed hereunder.
- 5.3 Neither Party shall disclose Research Results or any aspect of the existence nor the technical progress of the Project to the public or to any third party, except as expressly stated in Article 07.

ARTICLE- 6: INTELLECTUAL PROPERTY

6.1 **Developments.** Subject to BVCOEW's rights in and to its Pre-Existing Works (as defined in subsection 6.2 below), IPR [Intellectual Property Rights] protection in all products, inventions, documents, writings, graphic designs, photographs, content, reports, workflows, software (including modifications and documentation), and other items, feedback, suggestions or materials provided by or on behalf of BVCOEW and in collaboration with the Company, shall be in accordance with separate project specific agreement.

6.2 **Pre-Existing Works:** Each party shall retain all right, title and interest in and to any intellectual property in any technology or Confidential Information provided or developed by it independently ("Intellectual Property") during performance under this Agreement. Nothing contained in this Agreement shall be deemed to grant, either directly or by implication, estoppel, or otherwise, any license to any Intellectual Property by the providing party to the receiving party.

6.3 **Open Source license:** The final resultant product [if any] shall be made available by BVCOEW under an open source license for noncommercial and commercial purposes. For the purpose of releasing/ distributing source code of the resultant product under an Open Source license, BVCOEW shall furnish the company with the information on the proposed identified Open Source license and grant the company fifteen (15) days from the date of furnishing such information, for review and approval.

ARTICLE- 7: PUBLICATIONS

7.1

7.1.1 Except for the Company's Confidential Information, the Institute and its employees shall have the right, at their discretion, to release information or to publish any data, writings, or material or to use such in the Institute seminars, tutorials and lectures; and

7.1.2 Subject of Article 7.2 publish any non-confidential information and results arising out of this engagement between the Parties.

7.2 BVCOEW shall furnish the Company with a copy of any proposed publication date and grant the Company thirty (30) days from the date of furnishing, for review and comment. Within this period, the Company may request BVCOEW, in writing ["confidentiality notice"], to delay such publication for a maximum of a further period of sixty (60) days in order to protect the potential IP, including the patentability of any invention, and BVCOEW shall comply with any such request so long as it is reasonable. Such delay shall not, however, be imposed on the submission of any student thesis or dissertation. Provided that whether or not a confidentiality notice has been given, the Company's confidential information may not be published.

ARTICLE- 8: LIMITATION OF LIABILITIES AND DISCLAIMER

8.1 THE PARTIES DISCLAIM ANY AND ALL WARRANTIES BOTH EXPRESS AND IMPLIED WITH RESPECT TO THE SERVICES TO BE PERFORMED HEREUNDER AND ANY DELIVERABLES RESULTING THEREFROM, INCLUDING THEIR CONDITION, CONFORMITY TO ANY REPRESENTATION OR DESCRIPTION, THE EXISTENCE OF ANY LATENT OR PATENT DEFECTS THEREIN, THEIR MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, VALIDITY OF ANY INTELLECTUAL PROPERTY RIGHTS OR CLAIMS, OR NONINFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

8.2 The parties agree that each party shall be responsible for its own acts and the results thereof and shall not be responsible for the acts of the other party and the results thereof.

8.3 The foregoing limitations of liability, damages and claims are intended to survive termination of this Agreement and apply without regard to any other provisions of this agreement which have been breached or proven ineffective.

ARTICLE-9: TERM AND TERMINATION OF THE AGREEMENT

9.1 This Agreement shall terminate on the expiry of the Term of the Agreement, unless extended upon the mutual consent of the Parties by a new Agreement or by amendment hereto expressed in writing.

9.2 Either the Company or BVCOEW may terminate this Agreement at any time by giving thirty (30) days written notice of termination to the other Party. In the event of such

termination, BVCOEW will proceed in an orderly fashion to terminate any outstanding commitments and to stop the work as soon as it is practicable to do so, and commitments existing at the time the notice of termination is received which cannot be cancelled.

9.3 BVCOEW may terminate performance on any task if circumstances beyond its control preclude the continuation of the Project.

9.4 Subject to Article 9(3) above, Article 6, 7 and 9 of this Agreement shall survive the expiry or earlier termination of this Agreement, howsoever caused.

ARTICLE-10: APPLICABLE LAW

This Agreement shall be construed, interpreted, and governed by the laws of India. Any disputes relating to this Agreement which have not been successfully resolved through the dispute resolution process shall be subject to the jurisdiction of the Courts in Pune.

ARTICLE-11: ADDRESS OF THE PARTIES AND COMMUNICATION

11.1 All notices and other communications required or permitted under this Agreement shall be deemed to be proper when given in writing and sent by registered post, facsimile and confirmed by mail, postage prepaid, to the designated Party at the addresses set below:

If to the Institute:

Bharati Vidyapeeth's College of Engineering for Women

Bharati Vidyapeeth Campus, Dhankawadi, Pune-411043, Maharashtra, India

With a copy to: Prof. Dr. S. R. Patil, Principal

If to the Company:

Veritas Software Technologies India Private Limited

Eon Free trade Zone, Wing 4, Cluster A, Plot no. 1, and Survey No. 77, MIDC knowledge park, Kharadi, Pune - 411014

With Copy to: Mr Vijay Mhaskar, VP engineering

ARTICLE- 12: MISCELLANEOUS

12.1 **Entire Agreement.** This Agreement sets forth the complete agreement of the parties concerning the subject matter hereof. No claimed oral agreement in respect thereto shall be considered as any part hereof. No amendment or change in any of the terms hereof subsequent to the execution hereof shall have any force or effect unless agreed to in writing by duly authorized representatives of the parties.

12.2 **Waiver.** No waiver of any provision of this Agreement shall be effective unless executed in writing. No waiver shall be deemed to be, or shall constitute, a waiver of a breach of any other provision of this Agreement, whether or not similar, nor shall such waiver constitute a continuing waiver

of such breach unless otherwise expressly provided in such waiver.

12.3 Amendment. No amendment or variation to this Agreement will operate to change or vary the terms, obligations or conditions hereof except upon mutual agreement by both parties signed by an authorized representative of each Party.

12.4 Use of Name: A Party must not use the name, trademarks or logos of the other Party without that other Party's prior written consent. Any consent required may be given, withheld or made subject to conditions in the relevant Party's sole and unfettered discretion. If seeking consent under this clause, the Party must provide written details of the proposed use of the other Party's name, trademarks or corporate logos to the other Party.

12.5 Severability: Each provision contained in this Agreement is declared to constitute a separate and distinct covenant and provision and to be severable from all other separate, distinct covenants and provisions. It is agreed that should any clause, condition or term, or any part thereof, contained in this Agreement be unenforceable or prohibited by law or by any present or future legislation then:


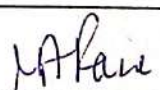
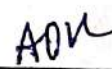

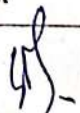
12.5.1 such clause, condition, term or part thereof, shall be amended, and is hereby amended, so as to be in compliance therewith the legislation or law;

12.5.2 if such clause, condition or term, or part thereof, cannot be amended so as to be in compliance with

the legislation or law, then such clause, condition, term or part thereof shall be severed from this Agreement and all the rest of the clauses, terms and conditions or parts thereof contained in this Agreement shall remain unimpaired.

12.6 Independent Contractor: For the purposes of this Agreement and all services to be provided hereunder, each Party shall be, and shall be deemed to be, an independent contractor and not an agent or employee of the other Party. Neither Party shall have authority to make any statements, representations nor may commitments of any kind, or to take any action, which shall be binding on the other Party, except as be explicitly provided for herein or authorized by the other Party in writing.

12.7 Force Majeure. Neither Party shall lose any rights hereunder or be liable to the other Party for damages or losses (except for payment obligations) on account of failure of performance by the defaulting Party if the failure is occasioned by war, strike, fire, Act of God, earthquake, flood, lockout, embargo, governmental acts or orders or restrictions, failure of suppliers, or any other reason where failure to perform is beyond the reasonable control and not caused by the negligence or intentional conduct or misconduct of the nonperforming Party, and such Party has exerted all reasonable efforts to avoid or remedy such force majeure; provided, however, that in no event shall a Party be required to settle any labour dispute or disturbance.

Veritas Software technologies India Private Limited Address: Panchshil Business Park, 4th and 11th to 16th Floor, Building C, Survey No 20, Balewadi, Pune 411045	Bharati Vidyapeeth's College of Engineering for Women Address: Bharati Vidyapeeth Campus, Dhankawadi, Pune - 411043,
By: 	By:  
Name: Mr Vijay Mhaskar	Name: Ms. M. A. Rane Ms. A. D. Khairkar
Title: VP Engineering and Site Lead, Pune	Title: Coordinator, IT Dept.
	By: 
	Name: Prof. Dr. D. A. Godse
	Title: HOD, IT Dept
	By: 
	Name: Prof. Dr. S. R. Patil
	Title: Principal

HEAD OF DEPT.
Information Technology
BV'S College of
Engineering For Women
Pune-411 043

I/C PRINCIPAL
Bharati Vidyapeeth's

College of Engineering for Women
Pune-Satara Road, Pune-411043

Veritas Software Technologies India Private Limited
C-Building, 4, 11 to 16, Panchashil Business Park.
Survey No. 20, Balewadi, Taluka Haveli, Pune
Tel. No. 66157000 (Hunting)



Bharati Vidyapeeths college of Engineering for Women, Pune-43

Department of Information Technology

A.Y. 2023-24

List of Activities for MOU with Veritas

Sr. No.	Activity details	Name of Resource Person	Start date	End date	Number of participants
1	BE Major Project Sponsorship	Mr. Ajinkya Nakve	1st September, 2023	30th April, 2024	12
2	Webinar on Cloud Security	Ms. Girija Swami	12th January, 2024	12th January, 2024	60



Mr. Vijay Mhaskar
VP Engineering and Site
Lead, Veritas, Pune



Prof. M. A. Rane
MOU Coordinator



Prof. Dr. D.A. Godse
HOD-IT



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Information Technology
BV'S College of
Engineering For Women
Pune-411 043

Bharati Vidyapeeth's College of Engineering for Women, Pune-43

Department of Information Technology


A. Y. 2023-24

Veritas Project Sponsorship details (MoU Activity)

Sr. No.	Project Group No.	Roll No.	Name	Contact No.	Mail ID	Mentor	Contact No.	Problem Statement	College Guide Name	Contact No.
1	17	4332	Utkarsha Vasantrao Kakade	8552871445	utkarshakakade195@gmail.com	Sneha Pawar	9970565843	Implement file-level cloud tiering support in XFS file system using punch-hole IOCTL	Prof. N. A. Mulla	9766462277
2		4338	Kalyani Jayant Kulkarni	8421634356	kulkarni.kalyani789@gmail.com					
3		4348	Mhaske Kirti Dattatray	8766962703	kirtimhaske03@gmail.com					
4		4356	Rewa Mandar Parashar	9975059011	rewaparashar5@gmail.com					
5	3	4303	Nisha Dnyaneshwar Avhad	7507435154	nishaavhad2002@gmail.com	Vikram Jadhav	9766906144	AI-driven file system performance optimization	Prof. S. A. Sagar	9923067977
6		4305	Anam Wasim Bagwan	9923300486	anambagwan6803@gmail.com					
7		4360	Vaishnavi Vijay Patil	7558502928	vaishnavipatil1011@gmail.com					
8		4365	Sneha Dattatray Salunke	8080094565	salunkesneha291@gmail.com					
9	1	4301	Agrawal Nupur Mahesh	8657722628	nupuragrawal810@gmail.com	Shraddha Shinde	9960910129	Predictive caching for file system (helpful for database workloads)	Prof. Dr. K. A. Malgi	9423200138
10		4310	Bhoite Srushti Prakash	7719005423	srushti.bhoite12@gmail.com					
11		4364	Prajwal Pandharinath Said	9322523267	saidprajwal@gmail.com					
12		4367	Sayali Shelar	9307554331	shelarsayali990@gmail.com					


Prof. M. A. Rane
MoU Coordinator




Prof. Dr. D. A. Godse
HOD-IT
HEAD OF DEPT.
 Information Technology
 BV'S College of
 Engineering For Women
 Pune-411 043



7th May 2024,

To Whom It May Concern,

This is to certify that Utkarsha Vasantrao Kakade has participated in the Veritas university students outreach program. She has successfully completed “Implement file-level cloud tiering support in XFS file system using punch-hole IOCTL “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", is written over a set of three parallel diagonal lines.

Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Kalyani Jayant Kulkarni has participated in the Veritas university students outreach program. She has successfully completed “Implement file-level cloud tiering support in XFS file system using punch-hole IOCTL “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", is written over a set of three parallel diagonal lines.

Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Mhaske Kirti Dattatray has participated in the Veritas university students outreach program. She has successfully completed “Implement file-level cloud tiering support in XFS file system using punch-hole IOCTL “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", is written over a set of three parallel diagonal lines.

Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Rewa Mandar Parashar has participated in the Veritas university students outreach program. She has successfully completed “Implement file-level cloud tiering support in XFS file system using punch-hole IOCTL “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

Ruchi Sinha

India TA Head

7th May 2024,

To Whom It May Concern,

This is to certify that Anam Wasim Bagwan has participated in the Veritas university students outreach program. She has successfully completed “AI-driven file system performance optimization “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited



Ruchi Sinha

India TA Head

7th May 2024,

To Whom It May Concern,

This is to certify that Vaishnavi Vijay Patil has participated in the Veritas university students outreach program. She has successfully completed “AI-driven file system performance optimization” which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited



Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Nisha Dnyaneshwar Avhad has participated in the Veritas university students outreach program. She has successfully completed "AI-driven file system performance optimization " which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", with a long, sweeping horizontal line underneath it.

Ruchi Sinha

India TA Head

7th May 2024,

To Whom It May Concern,

This is to certify that Sneha Dattatray Salunke has participated in the Veritas university students outreach program. She has successfully completed “AI-driven file system performance optimization “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited



Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Agrawal Nupur Mahesh has participated in the Veritas university students outreach program. She has successfully completed "Predictive caching for file system (helpful for database workloads) " which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", with a long, sweeping horizontal line underneath.

Ruchi Sinha

India TA Head

7th May 2024,

To Whom It May Concern,

This is to certify that Bhoite Srushti Prakash has participated in the Veritas university students outreach program. She has successfully completed “Predictive caching for file system (helpful for database workloads) “ which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited



Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Prajwal Pandharinath Said has participated in the Veritas university students outreach program. She has successfully completed "Predictive caching for file system (helpful for database workloads) " which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

A handwritten signature in black ink, appearing to read "Ruchi", with a long, sweeping horizontal line underneath.

Ruchi Sinha

India TA Head



7th May 2024,

To Whom It May Concern,

This is to certify that Sayali Shelar has participated in the Veritas university students outreach program. She has successfully completed "Predictive caching for file system (helpful for database workloads) " which commenced 01/8/2023 and was conducted over a duration of 9 months.

For any further questions, please reach Niranjana Kale at 7757841981 or Niranjana.kale@veritas.com

Best Regards,

Veritas Software Technologies (India) Private Limited

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Ruchi Sinha

India TA Head



**BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

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Approved by DTE. Govt. Of Maharashtra and AICTE, New Delhi
DTE Institute Code-EN6285, Pun Code-PU/PN/Engg. /150/2000

E-mail: -coewpune@bharativedyapeeth.edu

Website: - <http://coewpune.bharativedyapeeth.edu>

DEPARTMENT OF INFORMATION TECHNOLOGY

MoU Activity

A.Y. 2023-24 Semester-II

Date: 10th January, 2024

NOTICE

All the TE IT students are hereby informed that Department of Information Technology has organized a webinar on “Cloud Security” by Ms. Girija Swami, Principal Software Engineer, Veritas Software Technologies, Pune on 12th January, 2024, Friday from 2.30 pm to 4:30 pm. The link will be shared on Class Group. All the students of the TE(IT) class are instructed to attend this webinar in the college.

Ms. Mugdha A. Rane

MoU Coordinator

Prof. Dr. D. A. Godse

H.O.D. I.T.



HEAD OF DEPT.
Information Technology
BV'S College of
Engineering For Women
Pune-411 043



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E-mail: -coewpune@bharatividyaapeeth.edu

Website: - <http://coewpune.bharatividyaapeeth.edu>

Department of Information Technology

Activity under MOU

A.Y. 2023-24

Report of Webinar on “Cloud Security”

The Department of Information Technology organized a 1.5 hrs. webinar on “Cloud Security” by Ms. Girija Swami, Principal Software Engineer, Veritas Software Technologies, Pune, on 12th January, 2024 2.30 PM to 4.00 PM through online mode using the Zoom Meeting platform for TE IT students. A total of 50 students attended this webinar.

The webinar started with a welcome speech by Prof. M. A. Rane and the introduction of the speaker Ms. Girija Swami by Mr. Ajinkya Nakave, MoU Coordinator, Veritas Software Technologies.

The speaker, Ms. Girija Swami has taken Multi Cloud related Data Security, Network Security and Infrastructure Security challenges and its Preventive Measures. Webinar Ended with Vote of thanks speech by Saeed Datar, Student of TE IT. The webinar was very interactive. The students have got satisfactory answers to their questions..

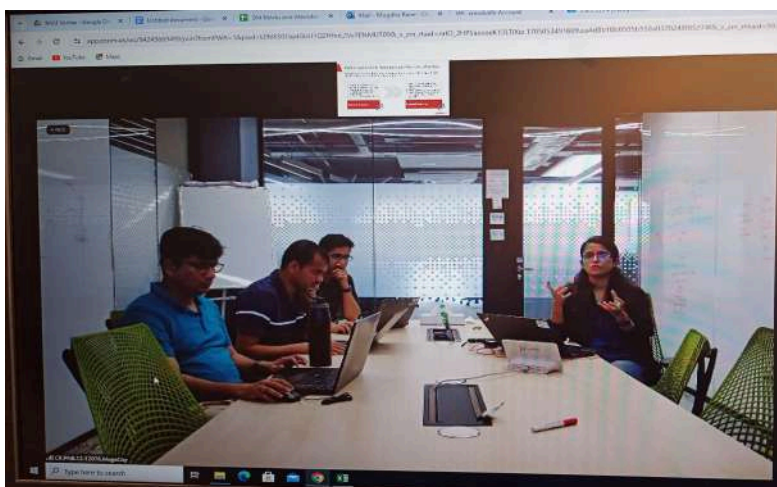


Image: Ms. Girija explaining the Security Topics

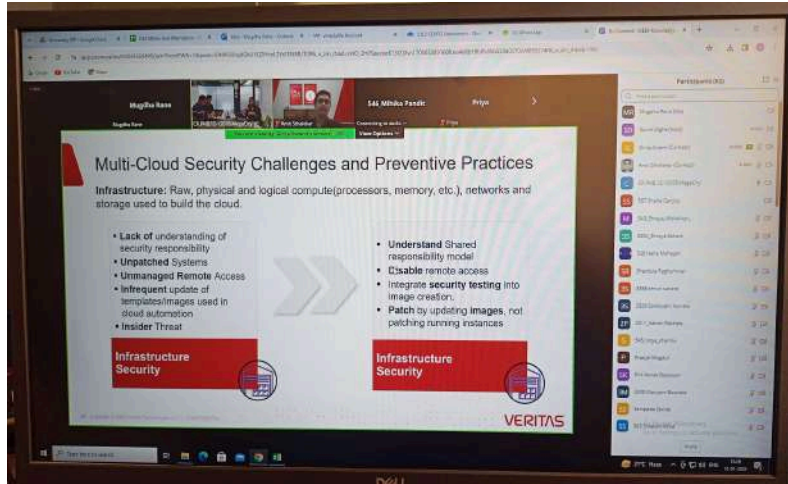


Image: Slide explaining Multi-cloud security challenges

M.A. Rane

Prof M.A.Rane
MOU Coordinator

D.A. Godse

Prof. Dr. D. A. Godse
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Bharati Vidyapeeth's College of Engineering for Women, Pune-43


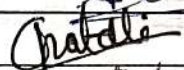
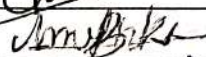
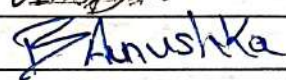
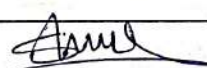
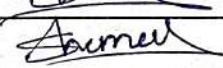

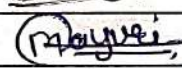
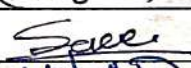
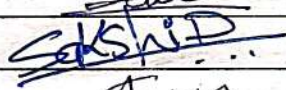

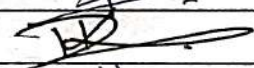
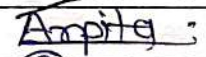
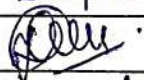
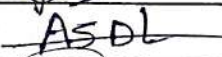
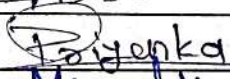

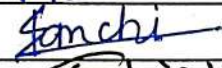
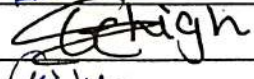

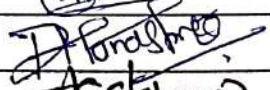
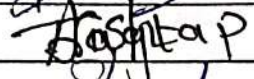
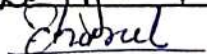
Department of Information Technology

TE IT A.Y. 2023-24 Semester- II

MoU Activity Webinar "Cloud Security"

Attendance Record

Date: 12th January, 2024

Roll No.	Name of Student	Sign
3301	ARYA KESHARWANI	
3302	AVHAD CHAITALI ANIL	
3303	BAGWAN SANIYA FIROJ	
3304	BHAGAT ANUSHKA MADHUKAR	
3305	BHOITE RADHIKA DATTATRAY	—
3306	BHOSALE SANIKA HANMANT	
3307	BHUJBAL SHAMAL MANIK	
3308	BOXWALA MARIYAM ZOYEB	
3309	DAS MAYURI KANTILAL	
3310	DATAR SAEED SHRIRAM	
3311	DESHMUKH SAKSHI SANTOSH	
3312	DESHMUKH SHRUTI NILESH	
3313	DEVANSHI KOUSHAL	
3314	DHAGE ARPITA RAVINDRA	
3315	DHANGARE RADHIKA SAHEBRAO	
3316	DHARRAO AISHWARYA SATISH	
3317	DHOKTE PRIYANKA GANESH	
3318	GADKARI VAISHNAVI MAHENDRA	
3319	GAIKWAD SANCHI MAHENDRA	
3320	GARGEESINGH	
3321	GIRHE KOMAL GORAKHNATH	
3322	HOGALE DHANASHRI SANJAY	
3323	JAGTAP AISHWARYA MACHINDRA	
3324	JAGTAP CHARUL NARENDRA	

3325	KADAM SHARAYU RAMCHANDRA	KSR
3326	KADAM SVARUPA RAMDAS	Svarupa
3327	KAJAVE NISHA SHRIPAT	Nisha
3328	KAKDE PRAGATI ARVIND	Pragati
3329	KAMBLE SAMBODHI SUDHIR	Smbd
3330	KARKANDE RUTUJA VINOD	Rutk
3331	KEDARI GAYATRI NAVANATH	Gayatri
3332	KELE AISHWARYA SANTRAM	Aishwarya
3333	KHANVELKAR SWAMINI PRATAP	Swamini
3334	KHARADE VAISHALI SUBHASH	Khav.s.
3335	KULKARNI SHREEYA BIPIN	Shreeya
3336	LAKHE SHRIYA KIRAN KUMAR	Shriya
3337	LAKSHITA PANCHBHAI	Lakshita
3338	LATORE VAISHNAVI ULHAS	V.V. Latore
3339	MAHABUDHE GAYATRI PRASHANT	G.p.m
3340	MARKAD RESHMA RAMESH	Reshma
3341	MISAL TANUJA ANIL	Tanuja
3342	MULE SRUSHTI JINCHANDRA	Srushti
3343	NANGARE APURVA RAJENDRA	Apurva
3344	NIGADE CHAITALI RAJESH	Chait
3345	PARWEKAR PRANJAL AMOL	Pranjat
3346	PATIL PALLAVI BHIMRAO	Pallavi
3347	PATIL PRAYUJA SHAHAJI	Prayuj
3348	PAWAR KIRTI NAMDEO	Kirti
3349	PIPALIYA PARNAVI JIGNESH	Parnavi
3350	POL SHREYA SURESH	Shreya
3351	POOJA GANGANE	Pooja
3352	PUDALE MANASVI DILIP	Manasvi
3353	RAJEBHOSALE POONAM SHIVAJI	Poonam
3354	SAKARE SHREYA SACHIN	Shreya
3355	SAKARE SHRUTI SACHIN	Shrutikalekade
3356	SALUNKE MEGHA JAGDISH	Megha
3357	SALUNKHE MAYURI MILIND	Mayuri

3358	SANCHITA PRAKASH SAWAI	
3359	SARODE AKSHADA BHAGCHAND	<u>Sawai</u> <u>Akshada</u>
3360	SHAIKH ALNAAZ MURTAJA	<u>Alnaaz</u>
3361	SHARNANGAT AMRUTA SANJAY	<u>Amruta</u>
3362	SHELKE NIKITA NITIN	<u>Mansi</u> <u>Shinde</u>
3363	SHINDE MANSI GAJANAN	<u>Mansi</u>
3364	SHITOLE SAMRUDDHI BHASKAR	
3365	SHREYA DHADSE	<u>Dhadse</u>
3366	SONAWANE PRANALI PRADIP	<u>Sonawane</u>
3367	SUHANI NANASAHEB HAVALDAR	<u>Suhani</u>
3368	SURDI SHRUTI NITIN	<u>S.N. Surdi</u>
3369	SUTRAVE NEHA VIRENDRA	<u>N.V. Sutave</u>
3370	TANUJA TANAJI RATHOD	
3371	TARAL PRATIKSHA VILAS	<u>Ratna</u>
3372	THITE AKSHADA NIVRUTI	<u>Akshada</u>
3373	WAGHMARE SHRUTI SANDEEP	<u>Shruti</u>
3374	WAYKASKAR VAISHNAVI SANJAY	<u>V.V. Kaskar</u>
3375	YADAV KAJAL SATISH	<u>Kajal</u>
3376	YADAV TRUPTI SUNDERBAPU	<u>Trupti</u>

M. A. Rane
Prof. M. A. Rane

MoU Coordinator

D. A. Godse
Prof. Dr. D. A. Godse

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