



Anekant Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

# CRITERION I

## CURRICULAR ASPECTS

### 1.3.2

**1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year (2022-23)**

**FIELD WORK**



Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
Department of Zoology  
**Activity Report**

Organized By: Department of Zoology

|                            |   |
|----------------------------|---|
| Year:                      | 2022-23   |
| Name of the Activity:      | Field visit report  |
| Date:                      | 12/03/2023 to 13/03/2023  |
| Venue:                     | Sindhudurg, Malvan, Tarkarli, and Vengurla  |
| Co-ordinator:              | Dr. S. R. Patil   |
| Organised for:             | All B. Sc. II students  |
| No. of Participants        | 54  |
| Nature:                    | Academic  |
| Objectives of the Activity | <p>As per syllabus our Zoology department arranged study tour of B. Sc II to visit Sindhudurg, Malvan, Tarkarli, and Vengurla.</p> <ul style="list-style-type: none"><li>• To enhance the knowledge and understanding regarding to the animal diversity.</li><li>• Promote teamwork and social skills.</li><li>• Promote creativity and thinking.</li></ul>   |
| Chief Guests               | NA  |
| Short Report (in English)  | <p>As per syllabus Department of Zoology has arranged study tour to Malvan, Tarkarli and Vengurla on 12<sup>th</sup> and 13<sup>th</sup> February 2023. As per the instructions given by the faculty members all students were gathered on Jaysingpur bus stand at 06:30 am and moved towards Malvan. We reach at 1.00 pm on sindhudurg fort by boating. Due to high tide we did not observe any aquatic animals. After this we went to fish market around the beach. This market is famous for various sea animals. Here, we observed different fishes like Pomphret, Saw fish, Scoliodon, Sting ray. Along the fishes we also observe Loligo, Sepia, Star fish, Prawn, Squilla, Jelly fish, and crab etc.</p> <p>After this visit we went to stay place and had a nice dinner and rested. On next day we visited to Tarkarli beach here we enjoyed with lots of fun and observe many crabs and shells. After that we started our journey towards vengurla. Here we visited regional fruit research station and saw varieties of fruit plantations. We were given a tour of the orchard by Dr. Bhingarde. We also visited a lab here where they explained how the insects are bred and cultivated to</p> |

|                       |   |
|-----------------------|---|
|                       | <p>use in the process of saving plants and trees. We also observed the different types of pests on varieties of fruit plants. There are number of insect pests damaging mango tree but the most abundant and destructive are mango hoppers, mealy bug, stem borer, fruit fly, mango nut weevil and play a major role in bringing down the fruit quality and yield. There are no serious pests and diseases found in kokum plantation .However leaf miner and mealy bugs cause damage to tender leaves. The fruit plantation we observed were Mango, Kokam, Beetle nut, Nutmug, Water apple, Amla, Black paper, Cashew etc. which are high medicinal properties towards our healthy immune system.</p> <p>Finally we started our back journey from Vengurla to Jaysingpur. We reached Jaysingpur at 10:30 pm. It was a knowledgeable and fantastic experience.</p> |
| <p>Outcome/Remark</p> | <p>Students get full of information about different marine fishes. They also learned about how different insect pests damage the different parts of plants.</p>   |



*Deena*  
Head  
Department of Zoology

**Jaysingpur College, Jaysingpur**

**Department of Zoology**

**B. Sc. II- Tour Report**

**2022-2023**

As per syllabus Department of Zoology has arranged study tour to Malvan, Tarkarli and Vengurla on 12<sup>th</sup> and 13<sup>th</sup> February 2023. As per the instructions given by the faculty members we all gathered on Jaysingpur bus stand at 06:30 am and moved towards Malvan.

**Sindhudurg**

Our journey continued to reach Sindhudurg and reached there at 01:00 pm. We went there to see the fort by boating. The fort was built by Hiroji Indalkar (Deshmukh). It is the Shivaji's Master Architect built in 1664 within 3 years. It is spread over the area of 48 Acres with 2-3 mile long rampart and wall is 30 feet high and 12 feet thick. It is one of the historical place and tourist place. Due to high tide we did not observe any aquatic animals.

After this we went to fish market around the beach. This market is famous for various sea animals. Here, we observed different fishes like Pomphret, Saw fish, Scoliodon, Sting ray. Along the fishes we also observe Loligo, Sepia, Star fish, Prawn, Squilla, Jelly fish, and crab etc.

1) Pomphret -

It is marine bony fish found in small shoals. It is used for food which is delicious and tasty having high food value and high protein; It is rich in Vit -A, Ca and Fe .

2) Loligo -(Squid)

Body is long and cylindrical, fins are short and are united .It belongs to Phylum - Mollusca and Class -Cephalopoda. Head is short and bears pair of large eyes and central mouth is surrounded by 10 arms, provided with sucker one of pair is elongated and bear sucker at free terminal end is called tentacle.

2) Sepia -(Cuttle fish)

It is marine Mollusca belongs to class Cephalopoda as head bear 5 pairs of arms and shell is internal. It lives in shallow water. Its foot is modified into arms and tentacles. Sepia show presence of ink glands used in offence and defense.

3) Prawn -

It is marine Crustacean, belonging to Phylum – Arthropoda . The body is formed 19 segments. Body is divisible into cephalothorax and abdomen. It is used as food due to its high nutritive value. Prawns are cultured artificially. Food prepared from Prawn is delicious and tasty.

4) Jelly fish – (Aurelia)

It is marine in habitat belongs to Phylum- Coelenterata and Class – Scyphozoa and Order – Semaestomeae. They show polymorphism, Medusa stage is dominant. It shows radial symmetry. Ploypoid phase is represented by small polyp which gives rise to medusa.

5) Crab -

The Crab belongs to Phylum – Arthropoda, Class – Crustacea, Order – Decapoda. The habitat is marine as well as fresh water, it is omnivorous. It is also having great food value.

6) Sting ray- It belongs to class chondrichthes. Stingrays are disk-shaped and have flexible, tapering tails armed, in most species, with one or more saw-edged, venomous spines. The dasyatid stingrays, also called whip-tailed rays and stingarees, inhabit all oceans and certain South American rivers. They have slim, often very long, whiplike tails.

7) Mackerel - The Indian mackerel is a species of mackerel in the scombrid family (family Scombridae) of order Perciformes. Mackerels are rounded and torpedo-shaped, with a slender, keeled tail base, a forked tail, and a row of small finlets behind the dorsal and anal fins. They are carnivorous fishes and feed on plankton, crustaceans, mollusks, fish eggs, and small fish.

8) Ribbon fish - The ribbonfish are any lampriform fishes in the family Trachipteridae. These pelagic fish are named for their slim, ribbon-like appearance. They have an elongated and compressed body, a very long dorsal fin, a large head, low pectoral fins, a mouth in advanced military elongated teeth.

9) Stiped bonito - Their body is elongated and very robust, characterized by a grayish color with dark tonalities. Their fins have small yellowish stripes, that spread to their tails. They can also have their bodies full of scales, depending mainly on how they are raised in the areas where they develop. Their chest and abdominal area, are more prominent than the rest of their body. They are very good swimmers; which often travel large areas of water at long distances.

11) Dian fish- *Bodianus diana*, is a species of wrasse native to the Indian Ocean from the African coast to the Nicobars and the Cocos-Keeling Islands. Hogfish (*Bodianus*) get their name from the way they look for food in the substrate using their snout.

12) Surmai fish- Packed with Omega-3 fatty acids, Surmai is one of the healthiest fishes available. Taking into account its large size, it is usually prepared in form of slices or steaks. Freshness Indicators : Intact & transparent eyes, firm texture, red gills & bright colour.

After this visit we went to stay place and had a nice dinner and rested. On next day we visited to Tarkarli beach here we enjoyed with lots of fun and observe many crabs and shells. After that we started our journey towards vengurla.

### **Vengurla**

Here we visited regional fruit research station and saw varieties of fruit plantations. We were given a tour of the orchard by Dr. Bhingarde. We also visited a lab here where they explained how the insects are bred and cultivated to use in the process of saving plants and trees. We also observed the different types of pests on varieties of fruit plants. There are number of insect pests damaging mango tree but the most abundant and destructive are mango hoppers, mealy bug, stem borer, fruit fly, mango nut weevil and play a major role in bringing down the fruit quality and yield. There are no serious pests and diseases found in kokum plantation .However leaf miner and mealy bugs cause damage to tender leaves. The fruit plantation we observed there is as follows with their medicinal properties,

1. Mango - A mango is an edible stone fruit produced by the tropical tree *Mangifera indica*. They are a great source of magnesium and potassium, both of which are connected to lower blood pressure and a regular pulse. Mangoes are a good source of fiber and antioxidants, including vitamin C, which means they support a healthy immune system.

2. Kokam - *Garcinia indica*, a plant in the mangosteen family, commonly known as kokum. The kokum fruit is a powerhouse of rich nutrients. Kokum is packed with many essential vitamins such as vitamin A, vitamin B3, vitamin C and minerals such as calcium, iron, manganese, potassium, and zinc. It also contains a good amount of folic acid, ascorbic acid, acetic acid, hydroxy citric acid, and fibre. Kokam fruit is a natural coagulant and a glass of kokam juice gives us immense relief from the scorching heat in summers.

3. Betel Nut - Chewing betel nuts ensures healthy digestive system, eradicates indigestion, and helps restore appetite. Improved digestion eradicates constipation, and thus improves the overall health. is pungent, bitter, spicy, sweet, salty, and astringent. It was said to expel wind, kill worms, remove phlegm, subdue bad odors, and beautify the mouth.

4. Nutmeg/Jaiphala - Jaiphala is valued as a potent aphrodisiac, digestive stimulant, and essential oil easing the pain associated with headaches and treats common cold, cough and asthma.

5. Water Apple- Water apple is rich in Vitamin C and other phenolic compounds called flavonoids. These prevent the damage of cells due to free radicals, pollutants and toxic elements

6. Amla- Amla has antibacterial and anti-inflammatory properties. The phytonutrients and antioxidants in amla can benefit memory by fighting against free radicals that can attack and damage brain cells.

7. Black pepper - Black pepper is a good source of manganese, a mineral that can help with bone health, wound healing, and metabolism.

8. Cashew - Cashews are a wonderful source of healthy fats, including monounsaturated and polyunsaturated varieties. Cashews are low in sugar and rich in fiber, heart-healthy fats, and plant protein. They're also a good source of copper, magnesium

Finally we started our back journey from Vengurla to Jaysingpur. We reached Jaysingpur at 10:30 pm. It was a knowledgeable and fantastic experience.



  
Head  
Department of Zoology



Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
Department of Zoology  
**Activity Report**

Organized By: Department of Zoology

|                            |  |
|----------------------------|--|
| Year:                      | 2022-23  |
| Name of the Activity:      | B. Sc. I Field visit report  |
| Date:                      | 16/03/2023   |
| Venue:                     | Butterfly garden, Jaysingpur college, Jaysingpur.  |
| Co-coordinator:            | Dr. S. R. Patil  |
| Organized for:             | All B. Sc. I students  |
| No. of Participants        | 78   |
| Nature:                    | Academic   |
| Objectives of the Activity | <p>As per syllabus our Zoology department arranged short study tour of B. Sc I to visit butterfly garden.</p> <ul style="list-style-type: none"><li>• To enhance the knowledge of diversity of butterflies with their identification among the students.</li><li>• To study the different nectar and host plants of butterflies.</li></ul> |
| Chief Guests               | NA   |
| Short Report (in English)  | <p>The study tour was headed by Dr. S. R. Patil sir. Jaysingpur College Jaysingpur has developed Butterfly garden in 700 m<sup>2</sup> area. In garden specific host plants and nectar plants have been planted for butterflies. There were total 35 species recorded.</p>   |
| Outcome/Remark             | <p>Students get full of information about the life cycle of butterflies. They observed various stages of life cycle. They learned how to identify the different butterflies. They also learned about the host and nectar plants of butterflies.</p>  |





*Deena*  
Head  
Department of Zoology

Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
Department of Zoology  
Tour Report –B.Sc I  
2022-23

**Visit area:**

As per syllabus our Zoology department arranged short study tour of B. Sc I to visit butterfly garden. As per the plan tour was arranged on 16 march 2023. The study tour was headed by Dr. S. R. Patil sir. Jaysingpur College Jaysingpur has developed Butterfly garden in 700 M<sup>2</sup> areas. In this garden specific host plants and nectar plants have been planted.

**Introduction:**

Butterflies are colorful, flying beauty on the earth. Due to their beautiful color patterns they have got aesthetic value. These are also considered as good environmental indicators as they relied on specific floral diversity. Butterflies play an important role in the ecosystem. These are represented as primary consumers in the ecological pyramids as both adults and caterpillar stages are eaten by secondary consumers like Lizards, birds, Frogs, toads, snakes etc. Even some parasites attack on the pupa of butterflies. Beside all these natural obstacles butterflies can successfully complete their lifecycle. Higher reproduction increases the rate of survival might be the key success of these tiny creatures. This strategy will help them to combat mortality rate.

As we all know that lifecycle of butterfly is completed mainly in four stages.

1. Eggs
2. Caterpillar
3. Pupa and
4. Adult

**Eggs:** Eggs are tiny; vary in color, round/cylindrical/oval in shape. These eggs are laid on the surface of leaves or stem along with sticky material so the eggs can firmly attach to the substratum. These eggs have very less amount of nutrients in it. Hence they get hatched to give rise to caterpillars.

**Caterpillar/ Larva:** Caterpillar hatched out from the small tiny eggs usually lasts up to one month. The time period of this stage varies species to species. These larvae will feed upon

leaves of plants. Individual species feed upon very specific plant and such plants are called host plants. Some of the caterpillars also feed on flowers of plants.

**Pupa:** It is the life stage of butterfly when it encloses itself in case called Chrysalis during metamorphosis. This stage lasts from few days to many months. Sometimes emergence of adult from the may get delayed as it is environmental drive.

**Adult:** This is the final stage of butterfly lifecycle. Adult butterflies are colorful and have aesthetic value. These mainly feed upon nectar of flowers. The life span of adults is very short and lasts up to one or two weeks. Once males mate with female immediately they die and female also die after laying eggs.

Hence, on the basis of its lifecycle butterflies require two types of plants, namely, Host plants and Nectar plants. As host plants are specific, detailed study is needed during the introduction host plants as per the status of butterfly diversity in particular area. However, butterfly do not relay on specific nectar plants so nectar plants are selected randomly.

### Observations:

List of Butterflies observed are given in the following table.

| S. N. | Name of Butterfly    | Scientific Name           |
|-------|----------------------|---------------------------|
| 1     | Grass Demon          | <i>Udaspes folus</i>      |
| 2     | Common Silverline    | <i>Spindasis vulcanus</i> |
| 3     | Common Pierrot       | <i>Castalius rosimon</i>  |
| 4     | Banded Blue Pierrot  | <i>Discolampa ethion</i>  |
| 5     | Zebra Blue           | <i>Leptotes plinius</i>   |
| 6     | Pea Blue             | <i>Lampides boeticus</i>  |
| 7     | Red Pierrot          | <i>Talicauda nyceus</i>   |
| 8     | Blue Tiger           | <i>Tirumala limniace</i>  |
| 9     | Plain Tiger          | <i>Danaus chrysippus</i>  |
| 10    | Stripped Tiger       | <i>Danaus genutia</i>     |
| 11    | Common Crow          | <i>Euploea core</i>       |
| 12    | Black Rajah          | <i>Charaxes solon</i>     |
| 13    | Common Evening Brown | <i>Melanitis leda</i>     |
| 14    | Common Bush Brown    | <i>Mycalesis perseus</i>  |
| 15    | Common Three Ring    | <i>Ypthima asterope</i>   |

|    |                     |                            |
|----|---------------------|----------------------------|
| 16 | Common Four Ring    | <i>Ypthima huebneri</i>    |
| 17 | Common Five Ring    | <i>Ypthima baldus</i>      |
| 18 | Tawny Coster        | <i>Acraea terpsicore</i>   |
| 19 | Common Leopard      | <i>Phalanta phalanta</i>   |
| 20 | Common Sailor       | <i>Neptis hylas</i>        |
| 21 | Baron               | <i>Euthalia aconthea</i>   |
| 22 | Angled Caster       | <i>Ariadne ariadne</i>     |
| 23 | Common Castor       | <i>Ariadne merione</i>     |
| 24 | Joker               | <i>Byblia ilithyia</i>     |
| 25 | Painted Lady        | <i>Vanessa cardui</i>      |
| 26 | Blue Pansy          | <i>Junonia orithyia</i>    |
| 27 | Yellow Pansy        | <i>Junonia hierta</i>      |
| 28 | Chocolate Pansy     | <i>Junonia iphita</i>      |
| 29 | Peacock Pansy       | <i>Junonia almanac</i>     |
| 30 | Lemon Pansy         | <i>Junonia lemonias</i>    |
| 31 | Danaid Eggfly       | <i>Hypolimnas misippus</i> |
| 32 | Common Grass Yellow | <i>Eurema hecabe</i>       |
| 33 | Common Emigrant     | <i>Catopsilia pomona</i>   |
| 34 | Mottled Emigrant    | <i>Catopsilia pyranthe</i> |
| 35 | Common Wanderer     | <i>Pareronia hippa</i>     |



*Dr. S. S. S.*  
Head  
Department of Zoology



Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
Department of Zoology  
**Activity Report**

Organized By: Department of Zoology

|                            |   |
|----------------------------|---|
| Year:                      | 2022-23   |
| Name of the Activity:      | Field visit report  |
| Date:                      | 06/02/2023 to 11/02/2023  |
| Venue:                     | Bangalore, Ranganatittu, Bandipur, Ooty, Mysore and Shraavanbelagola  |
| Co-ordinator:              | Dr. S. R. Patil   |
| Organised for:             | B. Sc. III students   |
| No. of Participants        | 11  |
| Nature:                    | Academic  |
| Objectives of the Activity | <p>As per syllabus our Zoology department arranged study tour of B. Sc II to visit Sindhudurg, Malvan, Tarkarli, and Vengurla.</p> <ul style="list-style-type: none"><li>• To enhance the knowledge and understanding regarding to the animal diversity.</li><li>• Promote teamwork and social skills.</li><li>• Promote creativity and thinking.</li></ul>   |
| Chief Guests               | NA  |
| Short Report (in English)  | <p>Department of Zoology has organized study tour of B. Sc. III students to Bangalore (07.02.2023), Ranganatittu (08.02.2023), Bandipur (08.02.2023), Ooty (09.02.2023), Mysore (10.02.2023), Shraavanbelagola (11.02.2023) and back. During this study tour students have got an opportunity to explore various institutes and natural habitats so as to increase the knowledge in the field of Zoology.</p> |
| Outcome/Remark             | Students have acquired knowledge on field as well as exposed to various institutes.   |



*S. R. Patil*  
Head  
Department of Zoology

# Jaysingpur College Jaysingpur

## Department of Zoology

### B. Sc. III Study Tour 2022-23

Department of Zoology has organized study tour of B. Sc. III students to Bangalore (07.02.2023), Ranganatittu (08.02.2023), Ooty (09.02.2023), Mysore (10.02.2023), Shravanbelagola (11.02.2023) and back. During this study tour students have got an opportunity to explore various institutes and natural habitats so as to increase the knowledge in the field of Zoology. In Bangalore, a visit was arranged at the Department of Entomology and Department of Apiculture, University of Agriculture, GKVK campus. Here students have interacted with Prof. Smitha to know the details about the insect diversity and apiculture. Students have also visited Visvevsaraya Industrial and Technological Museum where students have dealt with the basic concepts in the field of Biotechnology with demonstrations.

Next day, visit was arranged to Ranganatittu Bird Sanctuary, where students were exposed to natural habitat of Wetland. Here various species of birds and their behaviours were observed by students. In the interpretation room, students were heard various bird calling.

During the journey, while passing through Bandipur Tiger Reserve, Spotted deer, Peafowl and Wild boar were predominantly noted.

The next destination was Ooty where students were visited Botanical garden. In this garden various indigenous and exotic plant species were studied. Further, in Ooty, visit was arranged at Tea plantation where students were enjoyed with the beautiful landscape.

In Mysore, visit was arranged to Shri Chamarajendra Zoo. In this Zoo students have encountered with different wild animals maintained. Students have gained lot of information as well as knowledge over here. This Zoo has maintained more than 500 species of wild animals which are Indian as well as originated from other parts of world. After this informational visit, we went to Mysore Palace and Brindavan gardens for sightseeing. Finally we went to Shravanbelagola to Visit single stone 56 feet Bahubali Idol, which is known to be the Pilgrimage of Jainism. We were back to Jaysingpur.



*Dr. S. S. Srinivasan*  
Head  
Department of Zoology



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
**Activity Report**  
**Organised By: Department of Physics**

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| Year:  | 2022-23  |
| Name of the Activity:                            | Study Tour of B.Sc.II at Science centre, Warananagar and Panhala   |
| Date:  | 10/12/2022   |
| Venue:   | Science centre, Warananagar  |
| Co-ordinator:                                    | Dr. P.P. Chikode   |
| Organised for:<br>College/class/staff            | B.Sc. II students  |
| No. of Participants                              | 18   |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Study tour and Field visit   |
| Objectives of the Activity                       | To understand basic concepts in Physics and to understand working at Space centre Panhala  |
| Industry and Director                            | <b>Science centre, Warananagar</b>   |
| Short Report (in English)                        | <p>Department of Physics, Jaysingpur College, Jaysingpur had organized study tour and field visit activity of B.Sc.II year students at Science centre, Warananagar and Space centre Panhala on 10/12/2022.</p> <p>Learning by observing and availing of hands-on training students can understand concepts very clearly. Keeping this thing in mind we have visited Warana Science Centre at Warananagar. In this center, students performed lots of hands-on trainings on gravitation, momentum, magnetism, electricity, waves, and optics, etc. Students also enjoyed planetarium show and understood the various space activities.</p> <p>In the later half , we have visited Space centre Panhala, where students understood how to receive the signals and data analysis.</p> |
| Outcome  | Students understand various basic concepts in physics by performing various experiments as well as they gained the knowledge of data receiver and data analysis, GPS and its working. The working of various GPS satellites, their positions and strength of signals.  |



*Rajee*  
Agm Principal  
Jaysingpur College, Jaysingpur



## Study Tour of B.Sc.II at Science centre, Warananagar and Panhala





Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
**Activity Report**  
**Organised By: Department of Physics**

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|--|--|
| Year:  | 2022-23  |
| Name of the Activity:                            | Visit of B.Sc.II students to MF Radar Facility Centre at Shivaji University, Kolhapur. |
| Date:  | 27/02/2023   |
| Venue:   | Department of physics  |
| Co-ordinator:                                    | Dr. P.P. Chikode   |
| Organised for:<br>College/class/staff            | B.Sc. III Physics students and Research students                                       |
| No. of Participants                              | 10 B.Sc.III and 5 research students  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic   |
| Objectives of the Activity                       | To enrich knowledge in Physics   |
| Industry and Director                            | <b>Head, Dept. of Physics</b>  |
| Short Report (in English)                        | Visit of B.Sc.II students to MF Radar Facility Centre at Shivaji University, Kolhapur  |
| Outcome  | Students understand, concept, construction and working of MF Radar centre.             |



*Agale*  
**Agale**  
Principal  
Jaysingpur College, Jaysingpur

Students visit at MF radar centre and Dept. of Physics, Shivaji University, Kolhapur





Anekant Education Society's

# Jaysingpur College, Jaysingpur



## Activity Report

Organised By: **Department of Botany**

|  |  |
|--|--|
| Year:  | <b>2022-23</b>   |
| Name of the Activity:                            | Visit to Plant Nursery   |
| Date:  | 26 <sup>th</sup> November, 2022  |
| Venue:   | Dutta Nursery, Duttanagar, Shirol  |
| Co-ordinator:                                    | Mr. C. R. Chivate  |
| Organised for:<br>College/class/ staff           | B. Sc. III Botany Students   |
| No. of Participants                              | 03M+ 05F+ 04S=12   |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic Tour  |
| Objectives of the Activity                       | The objective of study tour is to know the various nursery techniques and maintenance of the garden  |
| Chief Guest/s or Resource Person/s               | Nil  |
| Short Report (in English)                        | <p>As per the curriculum of Shivaji University, Kolhapur for B. Sc. III Botany. The department of Botany organised the nursery visit to Dutta Nursery, Shirol.</p> <p>A total 08 students were participated in this visit along with four teachers. During this visit the student got knowledge and hands on training of whip grafting, Approach grafting, T-budding, patch budding in various horticultural plants.</p> |
| Outcome/Remark                                   | Students have got the knowledge of various nursery techniques and also known the different methods of the garden maintenance.  |



*Chivate*

Tour In-charge



*Bale*

Head  
Department of Botany



Anekant Education Society  
**Jaysingpur College, Jaysingpur**  
**Department of Botany**

**AY-2022-23**

## **VISIT TO PLANT NURSERY**

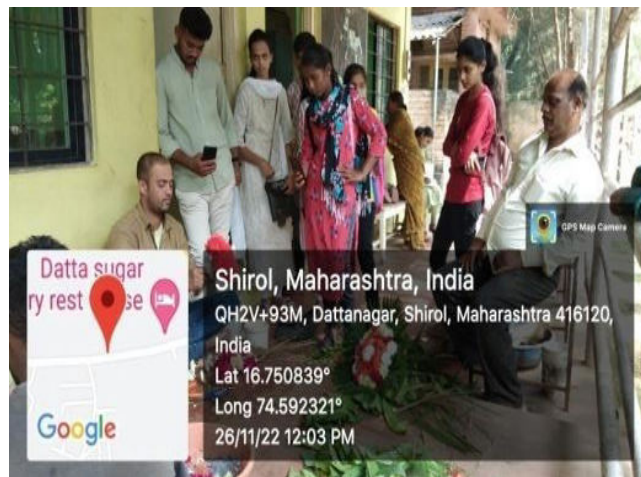
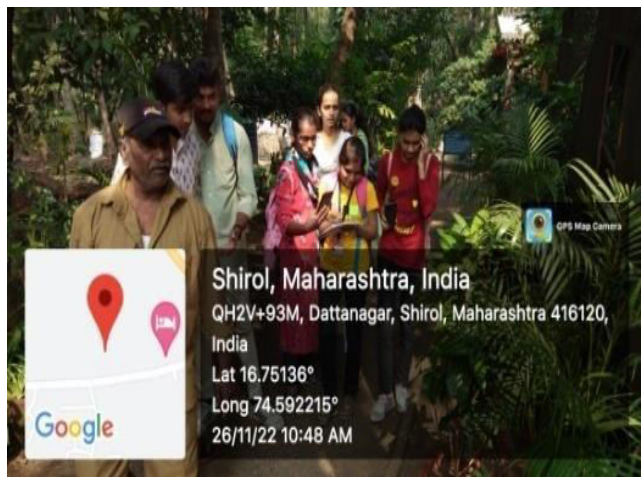
**26<sup>th</sup> November, 2022**

Field study is important part of learning Botany. Studying the plant in natural habitat gives good knowledge about climate, soil, habit of plants. As a part of B.Sc. III Botany syllabus, the department of Botany has organized botanical visit to Dutta Nursery, Shirol on 26<sup>th</sup> November, 2022.

A total 08 students and four staff members were participated in the study tour. We have reached at the Dutta Nursery, Shirol on 11:00 am. The gardener had showed the various plants in the garden. During walk, he gave information about the variety of plants and the notes on the healthy growth of the plants.

After visit to the garden we have reached at the site where the various plants were regenerated using different grafting techniques. The gardener of nursery explained and showed the various techniques of grafting such as budding, patch grafting, T-budding, and air layering. The techniques of layering such as simple layering and air layering were well explained. Also, the gardener gave demonstration of whip grafting, Approach grafting, T-budding, patch budding in various horticultural plants. The students were also learned and taken hands on training of pruning and plantation.





The tour in-charge Miss. Sonali Langare has appreciated the efforts taken by garner for detailed discussion about various nursery techniques and announced that the visit is successfully complete. At the end of nursery visit the students got hands on training and good experience of various nursery techniques at Dutta Nursery, Shirol. Thus, the visit successfully inculcated the practicality of different theoretical concepts of Botany in the students.

*Sonali Langare*

Tour In-charge



*Bate*

Head  
Department of Botany



Anekant Education Society's

# Jaysingpur College, Jaysingpur



## Activity Report

Organised By: **Department of Botany**

|  |   |
|--|---|
| Year:  | <b>2022-23</b>  |
| Name of the Activity:                            | <b>Industrial Visit to Oasis Biocontrol Laboratory</b>  |
| Date:  | 26 <sup>th</sup> November, 2022   |
| Venue:   | Oasis Bio-control Laboratory, Shirol, Kolhapur  |
| Co-ordinator:                                    | Miss. Sonali B. Langare   |
| Organised for:<br>College/class/ staff           | B. Sc. III Botany Students  |
| No. of Participants                              | 03M+ 05F+ 04S=12  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic Tour   |
| Objectives of the Activity                       | To know the various types of biofertilizers, biopesticides and their manufacturing  |
| Short Report (in English)                        | <p>As per the curriculum of Shivaji University, Kolhapur for B. Sc. III Botany. The department of Botany arranged the industrial visit to Oasis Bio-control Laboratory, Shirol.</p> <p>A total 08 students were participated in this industrial visit along with four teachers. During this visit the student got knowledge and hands on training of the manufacturing of various biofertilizers and biopesticides.</p> |
| Outcome/Remark                                   | The students have got live demonstration of the manufacture of bio-fertilisers. The student got knowledge of laboratory instrument.   |



Tour In-charge

Bale

Head  
Department of Botany



Anekant Education Society  
**Jaysingpur College, Jaysingpur**  
**Department of Botany**  
**AY-2022-23**

## Industrial Visit to Oasis Bio-control Laboratory

26<sup>th</sup> November, 2022

The laboratory visits are beneficial for the understanding of the various processes studied by students in the classrooms.

The Department of Botany, Jaysingpur College Jaysingpur has organized the visit Oasis Bio-control Lab, Shirol on 26th November, 2022. A total 08 students and four staff members were visited Oasis Bio-control Lab. The students of B.Sc. III visited the lab at 12:15 pm. The owner of Lab. Mr. Pravin Mali gave information regarding laboratory, instruments, bio-fertilizer, bio pesticides, soil testing and what are the benefits, precautions and challenges while working in lab. He gave different projects to students to work in lab. Because of the project, the students get practical hand, knowledge of instrument, different and challenges of the farmers which they are facing. Also, the he gave demonstration of formation of various biofertilizers and bio-pesticides. The students were also understand and taken hands on training of formation of various biofertilizers and bio-pesticides.

The students also successfully completed the projects given by Mr. Mali. The students were expressed their views about the visit and knowledge they have got during this visit. It was great time with Mr. Mali at Oasis Bio-control Lab. Shirol.



Tour In-charge



*Pravin Mali*  
Head  
Department of Botany





Anekant Education Society's  
**Jaysingpur College, Jaysingpur**

**Activity Report**

Organised By: **Department of Botany**

|  |   |
|--|---|
| Year:  | <b>2022-23</b>  |
| Name of the Activity:                            | <b>Botanical Study Tour to CastleRock, Goa and Vengurla</b>   |
| Date:  | 06 <sup>th</sup> to 8 <sup>th</sup> February, 2023  |
| Venue:   | <b>CastleRock, Goa and Vengurla</b>   |
| Co-ordinator:                                    | Dr. Suraj D. Umdale   |
| Organised for:<br>College/class/ staff           | B. Sc. III Botany Students  |
| No. of Participants                              | 05F + 03M (04 Staff)  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic Tour   |
| Objectives of the Activity                       | The objective of study tour was to familiarize the students with the flora of the CastleRock area of Western Ghats. Also know the Fruit Procession and Packaging, and plant nursery at Central Fruit Research Centre, Vengurla  |
| Chief Guest/s or Resource Person/s               | Nil   |
| Short Report (in English)                        | As per the curriculum of Shivaji University, Kolhapur for B. Sc. III Botany. The department of Botany arranged the Botanical Excursion to CastleRock, Goa and Vengurla. A total 08 students and 04 teachers were participated in this study tour.<br>The present Botanical study tour increased the knowledge of students about nature, environment, lone and wealth of mind by receiving the ideas. This botanical excursion was fruitful for students |
| Outcome/Remark                                   | Students have got the knowledge of Pteridophytes flora and fruit varieties present in the CastleRock, region of Karnataka and Central Fruit Research Centre Vengurla  |



*Umdale*

Tour In-charge

*Bale*

Head  
Department of Botany



Anekant Education Society  
**Jaysingpur College, Jaysingpur**  
**Department of Botany**

**AY-2022-23**

**Botanical Study Tour to CastleRock, Goa and Vengurla**

**06<sup>th</sup> to 8<sup>th</sup> February, 2023**

As a part of B.Sc. III Botany syllabus, the department of Botany has organized botanical excursion to Koynanagar, Chiplun and Da CastleRock, Goa and Vengurla during 06th to 8th February, 2023. A total 09 students and 04 teachers were participated in this study tour. The objective of study tour was to familiarize the students with the diversity of Bryophytes, Gymnosperms, Pteridophytes and Angiosperms present at CastleRock region and also to know the functioning of the Central Fruit Research Center, Vengurla.

**Day 1: 06<sup>th</sup> February, 2023**

We started our journey from central bus stand of Jaysingpur at 7:10 am. On the first day we visited CastleRock and observed the immense plant diversity at Bhimgad Wildlife Century, Londa, Mollem and CastleRock

The list of plant observed in the CastleRock region:

| S. No. | Botanical Name                                 | Family        |
|--------|--|---------------|
| 1      | <u>Pinus</u> spp.                              | Pinaceae      |
| 2      | <u>Thuja occidentalis</u> L.                   | Cupressaceae  |
| 3      | <u>Cycas</u> spp.                              | Cycadaceae    |
| 4      | <u>Araucaria angustifolia</u> (Bertol.) Kuntze | Araucariaceae |
| 5      | <u>Bougainvillea spectabilis</u> Willd.        | Nyctaginaceae |
| 6      | <u>Hibiscus rosa-sinensis</u> L                | Malvaceae     |
| 7      | <u>Areca catechu</u> L.                        | Arecaceae     |
| 8      | <u>Manilkara zapota</u> (L.) P.Royen           | Sapotaceae    |
| 9      | <u>Mallotus philippensis</u> (Lam.) Muell.Arg. | Euphorbiaceae |
| 10     | <u>Mucuna monosperma</u> Roxb. ex Wight        | Fabaceae      |
| 11     | <u>Gnetum ula</u>                              | Gnetaceae     |
| 12     | <u>Clerodendron inerme</u>                     | Verbenaceae   |



At the end of the day we stayed at the PWD guest house at CastleRock.

### **Day 2: 07<sup>th</sup> February, 2023**

On the next day morning, we visited Bhagwan Mahaveer Wildlife Century, Mollem. After visiting Bhagwan Mahaveer Wildlife Century, Mollem we entered Goa and visited various places at Goa namely, UNESCO recognised World Heritage Site- Basilica of Bom Jesus Church, Dona Paula, Shiroda, Ponda and Calangute Beach.





At the end of the day we stayed at “Surabh Guest House”, at Regional Fruit Research Center, Vengurla.

**Day 3: 07<sup>th</sup> February, 2023**

**Visit to**

**REGIONAL FRUIT RESEARCH STATION VENGURLE**

**(Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli**

On the next day morning, we visited the **Nursery** of various medicinal plants, the various grafts of mango Varieties and Cashew Field, Where we recorded a variety of medicinal plants developed via grafting and breeding. In Regional Fruit Research Station, we visited plant pathology laboratory and recorded various insect predators and parasites on various fruit crops along with their life cycle. The plant and soil testing laboratory is well equipped and had display of its functioning.

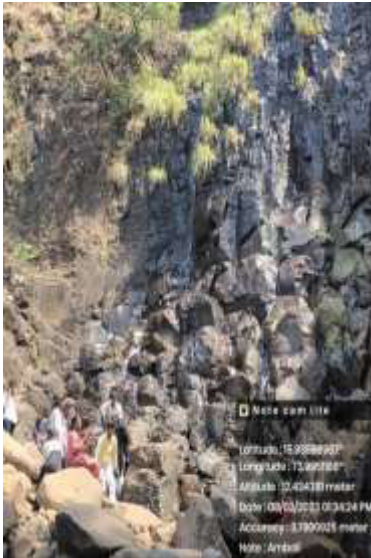
The list of plants observed in Medicinal Plant Nursery at Regional Fruit Research Station, Vengurle -

| <b>Sr. No.</b> | <b>Botanical Name</b>            | <b>Family</b> |
|----------------|----------------------------------|---------------|
| 1              | <u>Anacardium occidentale</u>    | Anacardiaceae |
| 2              | <u>Mangifera indica</u>          | Anacardiaceae |
| 3              | <u>Musa X paradisiaca</u>        | Musaceae      |
| 4              | <u>Ensete superbum</u>           | Musaceae      |
| 5              | <u>Araucaria heterophylla</u>    | Araucariaceae |
| 6              | <u>Cycas revoluta</u>            | Cycadaceae    |
| 7              | <u>Colebrookea oppositifolia</u> | Lamiaceae     |

|    |                                 |                |
|----|---------------------------------|----------------|
| 8  | <u>Myristica fragrans</u>       | Myristicaceae  |
| 9  | <u>Areca catechu</u>            | Arecaceae      |
| 10 | <u>Garcinia indica</u>          | Clusiaceae     |
| 11 | <u>Coccus nucifera</u>          | Arecaceae      |
| 12 | <u>Syzygium samarangense</u>    | Myrtaceae      |
| 13 | <u>Piper nigrum</u>             | Piperaceae     |
| 14 | <u>Psidium guajava</u>          | Myrtaceae      |
| 15 | <u>Artocarpus heterophyllus</u> | Moraceae       |
| 16 | <u>Calamus rotang</u>           | Arecaceae      |
| 17 | <u>Mucuna monosperma</u>        | Fabaceae       |
| 18 | <u>Callicarpa formosana</u>     | Lamiaceae      |
| 19 | <u>Hardwickia binata</u>        | Fabaceae       |
| 20 | <u>Barringtonia acutangula</u>  | Lecythidaceae  |
| 21 | <u>Manilkara zapota</u>         | Sapotaceae     |
| 22 | <u>Cinnamomum tamala</u>        | Lauraceae      |
| 23 | <u>Phyllanthus emblica</u>      | Phyllanthaceae |
| 24 | <u>Couroupita guianensis</u>    | Lecythidaceae  |
| 25 | <u>Citrus lemon</u>             | Rutaceae       |
| 26 | <u>Diospyros blancoi</u>        | Ebenaceae      |
| 27 | <u>Annona reticulata</u>        | Annonaceae     |







After visit and collection of the plants of botanical interest, we left Amboli at 3:30 pm. On the same day we reach our return destination (Jaysingpur) at about 07:30 pm. The Botanical study tour increased our knowledge about nature, environment, lone and wealth of mind by receiving the ideas. We enjoyed this tour and also knew many plants in the nature. This botanical excursion was fruitful.

*D. Prasad*

Tour In-charge

*Bale*

Head  
Department of Botany

Head,  
Department of Botany



Anekant Education Society's

# Jaysingpur College, Jaysingpur

## Activity Report

Organised By: **Department of Botany**

|  |  |
|--|--|
| Year:  | <b>2022-23</b>   |
| Name of the Activity:                            | <b>Botanical Excursion to Malvan-Tarkarli-Vengurla</b>   |
| Date:  | 12 <sup>th</sup> and 13 <sup>th</sup> April, 2023  |
| Venue:   | <b>Malvan-Tarkarli-Vengurla</b>  |
| Co-ordinator:                                    | Dr. Suraj D. Umdale  |
| Organised for:<br>College/class/ staff           | B. Sc. II Botany Students  |
| No. of Participants                              | 36F (2 Staff)+ 19M (3 Staff) = 55 (5 Staff)  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic study Tour  |
| Objectives of the Activity                       | The objective of study tour was to familiarize the students with the flora and ecology of the Konkan area of Western Ghats of Maharashtra and also know the Regional Fruit Research Station, Vengurla  |
| Chief Guest/s or Resource Person/s               | Nil  |
| Short Report (in English)                        | <p>As per the curriculum of Shivaji University, Kolhapur for B. Sc. II Botany. The department of Botany organised the Botanical Excursion to Malvan, Tarkarli and Vengurla. A total 55 students and 05 faculty staff were participated in this study tour.</p> <p>The present Botanical study tour increased the knowledge of students about nature, environment, lone and wealth of mind by receiving the ideas. This botanical excursion was fruitful for students</p> |
| Outcome/Remark                                   | Students have got the knowledge of horticultural plants present and their improved varieties at Regional Fruit Research Station, Vengurla  |



*Umdale*

Tour In-charge

*Bale*

Head  
Department of Botany



Estd. 1987



*Anekant Education Society's*  
**JAYSINGPUR COLLEGE, JAYSINGPUR**  
Department of Botany

# Botanical Excursion to Malvan-Tarkarli-Vengurla (2022-23)





Anekant Education Society  
**Jaysingpur College, Jaysingpur**  
Department of Botany  
AY-2022-23

**Report of Botanical Excursion to Malvan-Tarkarli-  
Vengurla**

**12<sup>th</sup> and 13<sup>th</sup> April, 2023**

The Botanical Excursions are arranged to give an experiential exposure to students. The field visits and institutional visits are equally important as classroom teaching. It adds vigor in learning and understanding of the subject. Field study is an essential part of botany as plants are best studied in their natural habitat. These excursions also help to build good repo amongst students and teachers.

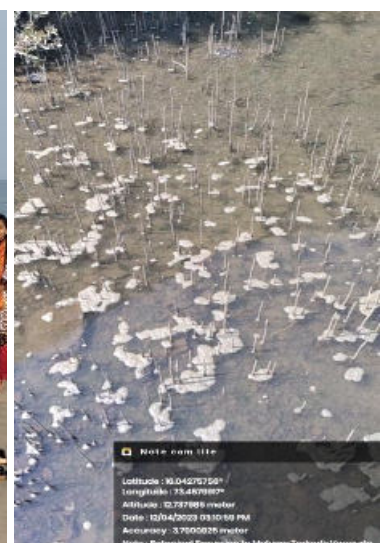
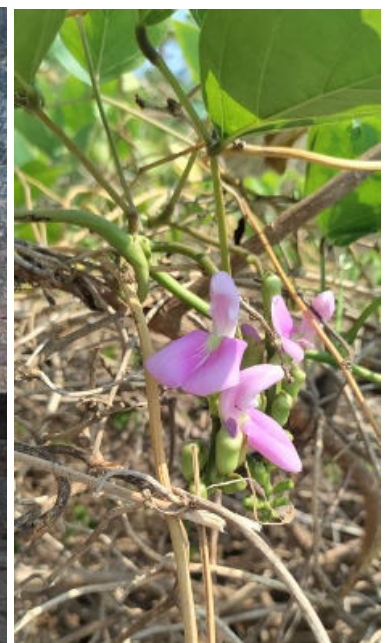
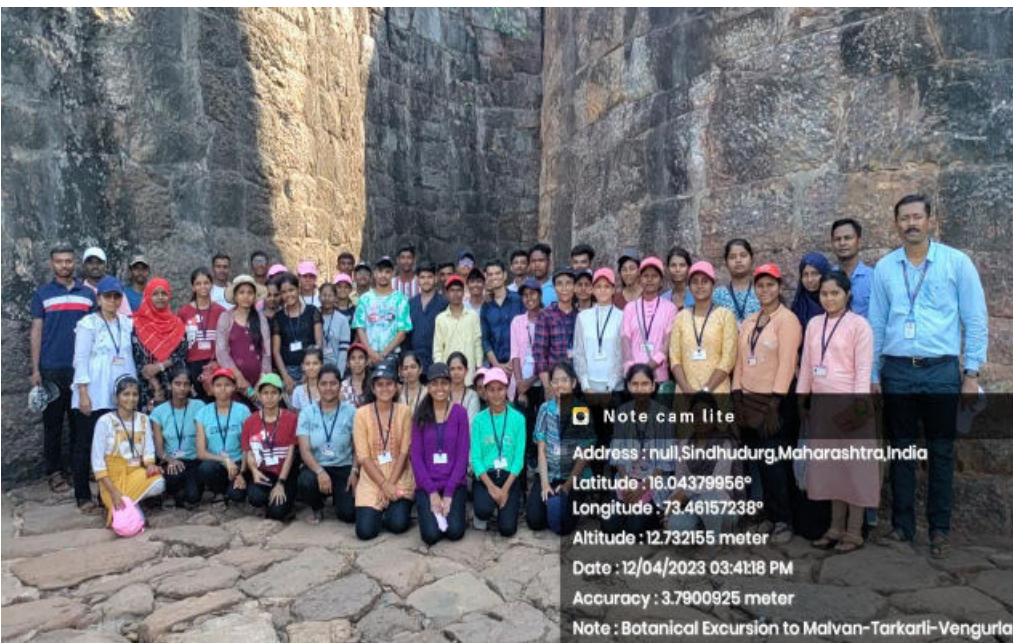
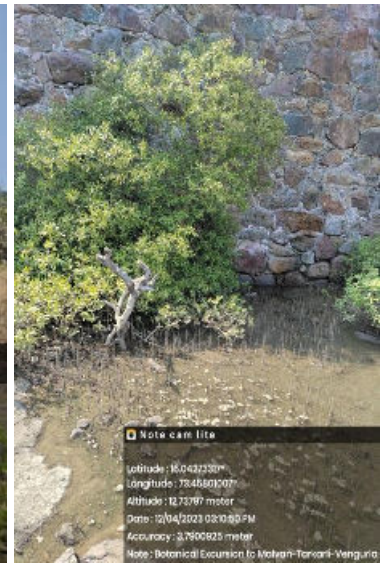
As a part of B.Sc. II Botany Curriculum, two day botanical excursions was organized to Malvan-Tarkarli-Vengurla by Department of Botany, Jaysingpur College Jaysingpur on 12<sup>th</sup> and 13<sup>th</sup> April, 2023 for botany students. A total 55 students and 05 teachers were participated in this botanical excursion. A group of B.Sc. II students were accompanied by Dr. Suraj Umdale and Miss. Sonali Langare of Botany department. The objective of study tour was to familiarize the students with the flora and ecology of the Konkan area of Western Ghats of Maharashtra and also know the Regional Fruit Research Station Vengurla.

We started our journey from central bus stand of Jaysingpur at 7:10 am. *via* Jaysingpur- Kolhapur- Gaganbawda- Malvan. The distance Between Jaysingpur to Malvan is 193 Km. We have reached Malvan at 12:30 pm. In Malvan, we visited visited Sindhudurg fort. Sindhudurg Fort is a historical fort present in the Arabian Sea, just off the coast of Maharashtra in Western India. The fort was built by Chhatrapati

Shivaji Maharaj. The fortress lies on the shore of Malvan town of Sindhudurg District in the Konkan region of Maharashtra.

On the fort we have recorded few plant species viz., *Cocos nucifera*, *Canavalia* sp., Mangrove species (*Avecinia* sps., *Rhizophora* sps.). After visiting fort, we reached fish market of Malvan at 5:00pm. The main attraction is fish market which is handled by local people. There we saw different types of fishes and other marine organisms. In evening, we visited the rock garden at Malvan and enjoyed the wonderful evening at rock garden with musical fountain. At the end of the day we stayed at the Tarkarli.

# Visit to Sindhudurg Fort, Malvan



## Visit to Regional Fruit Research Station, Vengurla

On the next day, 13<sup>th</sup> April, 2023 we started the journey towards Regional fruit research station Vengurla at 10:00 am. After 2 hours of travelling we reached at Regional Fruit Research Station, Vengurla on 12:10 pm. This institute is established in 1957 and aided by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth. The area cover of RFRS is 68.23 hector, which include Main Office building, Post-harvest technology wing, Soil water testing laboratory, and Plant Pathology laboratory, Plant Nursery, Cashew field gene bank, Mango farm, and Sourabh rest house.

First we visited the plant nursery and observed Mother Orchard Field of Michelia plants, Cinnamon, Beetle nut, Black pepper, Myristica, and Jam fruits. In this field we have also noticed the air layering technique of grafting (Gooty technique) on Cinnamon and Kokum plants. Further we visited to nursery where the saplings of different varieties of fruit plants and spices are available for sell.

In the institute campus we observed following plants:

| Sr. No. | Botanical Name                                 | Family        |
|---------|--|---------------|
| 1       | <u>Anacardium occidentale</u> L.               | Anacardiaceae |
| 2       | <u>Mangifera indica</u> L.                     | Anacardiaceae |
| 3       | <u>Ensete superbum</u> (Roxb.) Cheesman        | Musaceae      |
| 4       | <u>Araucaria heterophylla</u> (Salisb.) Franco | Araucariaceae |
| 5       | <u>Cycas revoluta</u> Thunb.                   | Cycadaceae    |
| 6       | <u>Colebrookea oppositifolia</u> Sm.           | Lamiaceae     |
| 7       | <u>Myristica fragrans</u> Houtt.               | Myristicaceae |
| 8       | <u>Areca catechu</u> L.                        | Arecaceae     |
| 9       | <u>Garcinia indica</u> Choisy                  | Clusiaceae    |
| 10      | <u>Cocos nucifera</u> L.                       | Arecaceae     |

|    |   |                |
|----|---|----------------|
| 11 | <u>Syzygium samarangense</u> (Blume) Merr. & L.M. Perry | Myrtaceae      |
| 12 | <u>Piper nigrum</u> L.                                  | Piperaceae     |
| 13 | <u>Psidium guajava</u> L.                               | Myrtaceae      |
| 14 | <u>Artocarpus heterophyllus</u> Lam.                    | Moraceae       |
| 15 | <u>Manilkara zapota</u> (L.) P.Royen                    | Sapotaceae     |
| 16 | <u>Cinnamomum tamala</u> (Buch.-Ham.) Th. G. G. Nees    | Lauraceae      |
| 17 | <u>Phyllanthus emblica</u> L.                           | Phyllanthaceae |
| 18 | <u>Couroupita guianensis</u> Aubl.                      | Lecythidaceae  |
| 19 | <u>Citrus lemon</u> (L.) Osbeck                         | Rutaceae       |
| 20 | <u>Annona reticulata</u> L.                             | Annonaceae     |

**The varieties of various horticultural plants available at Regional Fruit Research Station, Vengurla:**

| Sr. No. | Plant                 | Varieties   |
|---------|-----------------------|---|
| 1       | Mango<br>(आंबा)       | Hapus, Ratna, Sindhu, Kokan Ruchi, Suvarna, Konkan Raja, Kokan Samrat, Kesar, Goa manakur, Payari, Totapuri, Dashari, Amrapali, Neelam, Mallika, Dudhpeda, Tomy Atkinson , Maya, Lili, kite, Austin |
| 2       | Cashews<br>(काजू)     | Vengurla 1 (V-1), Vengurla 2 (V-2), Vengurla 3 (V-3), Vengurla 4 (V-4), Vengurla 5 (V-5), Vengurla 6 (V-5), Vengurla 7 (V-7), Vengurla 8 (V-8), Vengurla 9 (V-9).                                   |
| 3       | Coconut<br>(नारळ)     | Banavali, Pratap, TxD, Konkan Avishkar, Orange dwarf  |
| 4       | Kokum<br>(आमसुल)      | Konkum Amruta, Konkan Hatis   |
| 5       | Cinnamon<br>(दालचिनी) | Konkan Tej, Konkan Tejpatta   |
| 6       | Nutmeg<br>(जायफळ)     | Konkan Sugandha, Konkan Swad, Konkan Shrimanthi,  |



After nursery visit at Regional Fruit Research Station, we visited various Laboratories such as Plant Pathology laboratory, Soil water testing laboratory, Post-harvest technology wing. In plant pathology laboratory, we observed different equipment's like laminar flow, autoclave, centrifuge, pH metre, etc. the institute is actively involved in management of various disease of mango, cashew such as insect predators, insect parasites, and spider mites.

After plant pathology laboratory we visited Post-harvest technology department. The post-harvest technology department is under the supervision of In-charge Dr. R. T. Bhingarde. He gave information about the processing and packaging of mango pulp and Kokum. The post-harvest technology department has their own production unit. They manufacture and sell products like pickles of Jayphal, amla and mango, kokum syrup, amala syrup, mango pulp and powder of Aavala, kokam, Amsul, etc.

After visit and collection of the plants of botanical interest, we left Vengurle at 4:14 pm. On the same day we reach our return destination (Jaysingpur) at about 10.15 pm. The Botanical study tour increased our knowledge about nature, environment, lone and wealth of mind by receiving the ideas. The botanical study tour was successfully inculcated the practical knowledge various theoretical concepts of Botany and also get research exposure to the students. The students get a unique experience of field nursery and research laboratory at Regional Fruit Research Station, Vengurla. This botanical excursion was fruitful. We enjoyed this tour and also knew many plants in the nature.



Tour In-charge



Head  
Department of Botany





Anekant Education Society's  
**JAYSINGPUR COLLEGE, JAYSINGPUR**

**DEPARTMENT OF BOTANY**

**Annual Activity Report (2022-23)**

**STUDENT PARTICIPATION IN NATIONAL CONFERENCE**

The list of students participated in "One Day National Conference on Biodiversity and Bioscience" organized by Balwant College, Vita on 29<sup>th</sup> December, 2022.



| Sr. No. | Name of Student         | Title of Research Poster   | Class      |
|---------|-------------------------|--|------------|
| 1       | Alsifa Mansoor Tamboli  | Diversity in leaf stomatal density of different plant species Collected from Jaysingpur College    | B. Sc. II  |
| 2       | Neha Anil Koli          |  |            |
| 3       | Priti Umashankar Pandey |  |            |
| 4       | Sneha Tanaji Kamble     |  |            |
| 5       | Komal Chandrakant Patil | Estimation of the Chlorophyll content in different plant species Collected from Jaysingpur College | B. Sc. II  |
| 6       | Prachi Basgonda Patil   |  |            |
| 7       | Pooja Babaso Vajantri   |  |            |
| 8       | Sandesh Sanjay Dhandale |  |            |
| 9       | Sanjana Abaso Mane      | Hydroponics Technique for analysis of growth of some legumes                                       | B. Sc. III |
| 10      | Shejal Raju Gorwade     |  |            |
| 11      | Shivani Babaso Patil    |  |            |
| 12      | Omkar Dattatray Sutar   | Participation  |            |
| 13      | Revan Uday Nejkar       |  |            |

*Hele*

Head  
Department of Botany



NCOBAB  
2022



Rayat Shikshan Sanstha's

**Balwant College, Vita**

NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



**One Day National Conference on Biodiversity and  
Biosciences  
CERTIFICATE**



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Alsifa Mansur Tamboli from  
Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity  
and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December  
2022 and presented his/ her/ their research work entitled Diversity in leaf stomatal density of  
different plant species collected from Jaysingpur college, (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022



Rayat Shikshan Sanstha's

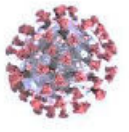
**Balwant College, Vita**

NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



**One Day National Conference on Biodiversity and  
Biosciences  
CERTIFICATE**



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Neha Anil Koli from  
Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity  
and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December  
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different plant species collected from Jaysingpur college, (Poster)

Dr. Jagdish Dalavi  
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Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022

Rayat Shikshan Sanstha's

**Balwant College, Vita**

NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



*One Day National Conference on Biodiversity and  
Biosciences*  
**CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Priiti Umashankar Pandey from  
Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference  
on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup>  
December 2022 and presented his/ her/ their research work entitled Diversity in leaf stomatal density of  
different plant species collected from Jaysingpur College, Jaysingpur (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022

Rayat Shikshan Sanstha's

**Balwant College, Vita**

NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



*One Day National Conference on Biodiversity and  
Biosciences*  
**CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Sneha Tanaji Kamble from  
Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity  
and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December  
2022 and presented his/ her/ their research work entitled Diversity in leaf stomatal density of diff-  
erent plant species collected from Jaysingpur College, (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



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**Balwant College, Vita**

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Department of Botany, Zoology, and Microbiology



**One Day National Conference on Biodiversity and Biosciences CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Komal Chandrakant Patil from Jaysingpur college, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December 2022 and presented his/ her/ their research work entitled Estimation of the chlorophyll content in different plant species collected from Jaysingpur college, (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



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**Balwant College, Vita**

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Department of Botany, Zoology, and Microbiology



**One Day National Conference on Biodiversity and Biosciences CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Prachi Basgonda Patil from Jaysingpur college, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December 2022 and presented his/ her/ their research work entitled Estimation of the chlorophyll content in different plant species collected from Jaysingpur college, (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB 2022

Rayat Shikshan Sanstha's

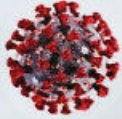
# Balwant College, Vita

NAAC - A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



## One Day National Conference on Biodiversity and



## Biosciences CERTIFICATE



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Pooja Babaso Vajantri from

Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December

2022 and presented his/ her/ their research work entitled Estimation of the chlorophyll content in different plant species collected from Jaysingpur college (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



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Rayat Shikshan Sanstha's

# Balwant College, Vita

NAAC - A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



## One Day National Conference on Biodiversity and



## Biosciences CERTIFICATE



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Sandesh Sanjay Dhandale from

Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December

2022 and presented his/ her/ their research work entitled Estimation of the Chlorophyll content in different plant species collected from Jaysingpur college (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022



Rayat Shikshan Sanstha's

# Balwant College, Vita

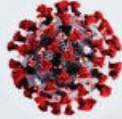
NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



Founder: Karmaveer  
Bhaurao Patil

## One Day National Conference on Biodiversity and Biosciences CERTIFICATE



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Mane Sanjana Abaso from Jaysingpur College Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December 2022 and presented his/ her/ their research work entitled Hydroponics technique for analysis of growth of some selected legumes (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022



Rayat Shikshan Sanstha's

# Balwant College, Vita

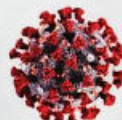
NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



Founder: Karmaveer  
Bhaurao Patil

## One Day National Conference on Biodiversity and Biosciences CERTIFICATE



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Shejal Raju Gorwade from Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December 2022 and presented his/ her/ their research work entitled Hydroponic technique for analysis of growth of some selected legumes (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

Prin. (Dr.) Rajendra S. More  
Chairman



NCOBAB  
2022

Rayat Shikshan Sanstha's

**Balwant College, Vita**

NAAC – A Grade (CGPA-3.11)

Department of Botany, Zoology, and Microbiology



*One Day National Conference on Biodiversity and*



*Biosciences*  
**CERTIFICATE**



This certificate is awarded to Mr./ Miss./ Smt./ Dr. Patil Shiwani Babaso from

Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity

and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December

2022 and presented his/ her/ their research work entitled Hydroponics technique for analysis of  
growth of some selected legumes (Poster)

Dr. Jagdish Dalavi  
Organizing Secretary

Dr. Shankar Shendage  
Co-ordinator

Mr. Rahul Patil  
Co-ordinator

Dr. Suvarna Pol  
Convener

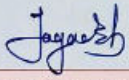

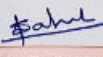
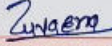
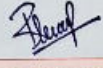
Prin. (Dr.) Rajendra S. More  
Chairman



Rayat Shikshan Sanstha's  
**Balwant College, Vita**  
NAAC – A Grade (CGPA-3.11)  
Department of Botany, Zoology, and Microbiology

One Day National Conference on Biodiversity and  
Biosciences  
**CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Omkar Dattatray Sutar. from  
Jaysingpur College, Jaysingpur. for his/her/their active participation in 'One Day National Conference  
on Biodiversity and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup>  
December 2022 and presented his/ her/ their research work entitled —

|   |   |  |   |   |
|---|---|--|---|---|
| <br>Dr. Jagdish Dalavi<br>Organizing Secretary | <br>Dr. Shankar Shendage<br>Co-ordinator | <br>Mr. Rahul Patil<br>Co-ordinator | <br>Dr. Suvarna Pol<br>Convener | <br>Prin. (Dr.) Rajendra S. More<br>Chairman |
|---|---|--|---|---|

Rayat Shikshan Sanstha's  
**Balwant College, Vita**  
NAAC – A Grade (CGPA-3.11)  
Department of Botany, Zoology, and Microbiology

One Day National Conference on Biodiversity and  
Biosciences  
**CERTIFICATE**

This certificate is awarded to Mr./ Miss./ Smt./ Dr. Revan Uday Nejkar from  
Jaysingpur College, Jaysingpur for his/her/their active participation in 'One Day National Conference on Biodiversity  
and Biosciences' organized by the Department of Botany, Zoology, and Microbiology, Balwant College, Vita on 29<sup>th</sup> December  
2022 and presented his/ her/ their research work entitled —

|   |   |  |   |   |
|---|---|--|---|---|
| <br>Dr. Jagdish Dalavi<br>Organizing Secretary | <br>Dr. Shankar Shendage<br>Co-ordinator | <br>Mr. Rahul Patil<br>Co-ordinator | <br>Dr. Suvarna Pol<br>Convener | <br>Prin. (Dr.) Rajendra S. More<br>Chairman |
|---|---|--|---|---|

Bale

Head  
Department of Botany





Anekant Education Society's

# JAYSINGPUR COLLEGE JAYSINGPUR

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

## A DEPARTMENT OF B.VOC.

### INDUSTRIAL VISIT

NAME OF COMPANY - Sun Auto L.K, Akiwate Industries, Jaysingpur.

Print Pack, Solution Shahu Industries, Jaysingpur.

Siddhivinayak offset, Shahu Industries, Jaysingpur.

Date of visit - 24 nov 2022



*Murthy*

Coordinator

(B.VOC.)



Anekant Education Society's

**JAYSINGPUR COLLEGE JAYSINGPUR**

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

## DEPARTMENT OF B.VOC.

### INDUSTRIAL VISIT

- NAME OF COMPANY - Shree Datta ShetkariSahakari Sugar Factory, Dattanagar
- Date of visit - 03Dec. 2022



*Amey*

Coordinator

(B.VOC.)

Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
**Department of Zoology**  
**Report of Student Centric Programs**

Department of Zoology regularly conducts various student centric programs every year. These programs mainly focus on the participative learning, experiential learning and problem solving methods. Following programs have been organized by the department to enhance their skills and abilities.

| S. No | Type of Program        | Name of the Program                  | No. of students participate |
|-------|------------------------|--------------------------------------|-----------------------------|
| 01    | Participative Learning | Butterfly Walk                       | 61                          |
|       |                        | Guest lecture on Indian Constitution | 21                          |
|       |                        | Guest lecture on Biodiversity        | 106                         |
|       |                        | Mural Making workshop                | 106                         |
| 02    | Experiential Learning  | B. Sc. II Study tour                 | 54                          |
|       |                        | B. Sc. III Study tour                | 11                          |
|       |                        | B. Sc. I Field Visit                 | 78                          |
|       |                        | Essay Writing                        | 55                          |
|       |                        | Painting Competition                 | 26                          |
|       |                        | Photography Competition              | 08                          |
|       |                        | Poster Presentation Competition      | 28                          |
|       |                        | Rangoli Competition                  | 13                          |
|       |                        | Student Seminars                     | 16                          |
|       |                        | Wallpaper Presentation               | 16                          |
|       | Problem solving Method | Research Projects                    | 16                          |

\*Detailed reports of all programs and events are attached



*Deena*  
 Head  
 Department of Zoology



Anekant Education Society's

# Jaysingpur College Jaysingpur

Department of Zoology

## Activity Report

Organized By: IQAC Department of Zoology and Botany

|  |   |
|--|---|
| Year:  | 2022-23   |
| Name of the Activity:                            | Butterfly walk  |
| Date:  | 06/10/2022  |
| Venue:   | Zoology Department, Jaysingpur college, Jaysingpur  |
| Co-ordinator:                                    | Dr. S. R. Patil   |
| Organised for:<br>College/class/ staff           | All B. Sc. students   |
| No. of Participants                              | 61  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic  |
| Objectives of the Activity                       | Environmental awareness and biodiversity conservation   |
| Chief Guest/s or Resource Person/s               | Mr. Faruk Mhetar  |
| Short Report (in English)                        | On the occasion of World wild life week IQAC, Department of Zoology and Botany has organized butterfly walk on 06/10/2022. All B. Sc. Zoology Students of Jaysingpur College Jaysingpur. Total 61 students were present for this walk. On this butterfly walk auspicious presence of Dr. M. R Akkole, Secretary, Local committee, Jaysingpur College Jaysingpur, Dr. N. P. Sawant Principal, Jaysingpur College, Jaysingpur and Mr Raman Kulkarni, Wildlife warden. Mr. Faruk Mhetar, Butterfly Researcher. Mr. Sarvdaman Kulkarni, Wildlife photographer and researcher and Mr. Amol Kulkarni, Assistant professor in Environmental studies, Department of Technology, Shivaji University, Kolhapur. |
| Outcome/Remark                                   | Introduction of butterfly life cycle  |

(# Photos, participant's list and other documents are attached)



**JAYSINGPUR COLLEGE, JAYSINGPUR**  
 Department of Zoology and Botany  
 Celebration of World Wildlife Week- 2022  
 Butterfly Walk Attendance list

| Sl. No. | Name of student       | Roll No.  | Date: 05 October 2022 | Sign |
|---------|-----------------------|-----------|-----------------------|------|
| 1       | Aditya Mahesh Sawade  | 101122101 | 101                   |      |
| 2       | Amrutha Deepak Patil  | 101122102 | 102                   |      |
| 3       | Aradhana Balraj Patil | 101122103 | 103                   |      |
| 4       | Aradhana Balraj Patil | 101122104 | 104                   |      |
| 5       | Aradhana Balraj Patil | 101122105 | 105                   |      |
| 6       | Aradhana Balraj Patil | 101122106 | 106                   |      |
| 7       | Aradhana Balraj Patil | 101122107 | 107                   |      |
| 8       | Aradhana Balraj Patil | 101122108 | 108                   |      |
| 9       | Aradhana Balraj Patil | 101122109 | 109                   |      |
| 10      | Aradhana Balraj Patil | 101122110 | 110                   |      |
| 11      | Aradhana Balraj Patil | 101122111 | 111                   |      |
| 12      | Aradhana Balraj Patil | 101122112 | 112                   |      |
| 13      | Aradhana Balraj Patil | 101122113 | 113                   |      |
| 14      | Aradhana Balraj Patil | 101122114 | 114                   |      |
| 15      | Aradhana Balraj Patil | 101122115 | 115                   |      |
| 16      | Aradhana Balraj Patil | 101122116 | 116                   |      |
| 17      | Aradhana Balraj Patil | 101122117 | 117                   |      |
| 18      | Aradhana Balraj Patil | 101122118 | 118                   |      |
| 19      | Aradhana Balraj Patil | 101122119 | 119                   |      |
| 20      | Aradhana Balraj Patil | 101122120 | 120                   |      |
| 21      | Aradhana Balraj Patil | 101122121 | 121                   |      |
| 22      | Aradhana Balraj Patil | 101122122 | 122                   |      |
| 23      | Aradhana Balraj Patil | 101122123 | 123                   |      |
| 24      | Aradhana Balraj Patil | 101122124 | 124                   |      |
| 25      | Aradhana Balraj Patil | 101122125 | 125                   |      |
| 26      | Aradhana Balraj Patil | 101122126 | 126                   |      |
| 27      | Aradhana Balraj Patil | 101122127 | 127                   |      |
| 28      | Aradhana Balraj Patil | 101122128 | 128                   |      |
| 29      | Aradhana Balraj Patil | 101122129 | 129                   |      |
| 30      | Aradhana Balraj Patil | 101122130 | 130                   |      |
| 31      | Aradhana Balraj Patil | 101122131 | 131                   |      |
| 32      | Aradhana Balraj Patil | 101122132 | 132                   |      |
| 33      | Aradhana Balraj Patil | 101122133 | 133                   |      |
| 34      | Aradhana Balraj Patil | 101122134 | 134                   |      |
| 35      | Aradhana Balraj Patil | 101122135 | 135                   |      |
| 36      | Aradhana Balraj Patil | 101122136 | 136                   |      |
| 37      | Aradhana Balraj Patil | 101122137 | 137                   |      |
| 38      | Aradhana Balraj Patil | 101122138 | 138                   |      |
| 39      | Aradhana Balraj Patil | 101122139 | 139                   |      |
| 40      | Aradhana Balraj Patil | 101122140 | 140                   |      |
| 41      | Aradhana Balraj Patil | 101122141 | 141                   |      |
| 42      | Aradhana Balraj Patil | 101122142 | 142                   |      |
| 43      | Aradhana Balraj Patil | 101122143 | 143                   |      |
| 44      | Aradhana Balraj Patil | 101122144 | 144                   |      |
| 45      | Aradhana Balraj Patil | 101122145 | 145                   |      |
| 46      | Aradhana Balraj Patil | 101122146 | 146                   |      |
| 47      | Aradhana Balraj Patil | 101122147 | 147                   |      |
| 48      | Aradhana Balraj Patil | 101122148 | 148                   |      |
| 49      | Aradhana Balraj Patil | 101122149 | 149                   |      |
| 50      | Aradhana Balraj Patil | 101122150 | 150                   |      |

| Sl. No. | Name of student       | Mobile No. | Roll No. | Sign |
|---------|-----------------------|------------|----------|------|
| 201     | Aditya Mahesh Sawade  | 9822210001 | 151      |      |
| 202     | Aradhana Balraj Patil | 9822210002 | 152      |      |
| 203     | Aradhana Balraj Patil | 9822210003 | 153      |      |
| 204     | Aradhana Balraj Patil | 9822210004 | 154      |      |
| 205     | Aradhana Balraj Patil | 9822210005 | 155      |      |
| 206     | Aradhana Balraj Patil | 9822210006 | 156      |      |
| 207     | Aradhana Balraj Patil | 9822210007 | 157      |      |
| 208     | Aradhana Balraj Patil | 9822210008 | 158      |      |
| 209     | Aradhana Balraj Patil | 9822210009 | 159      |      |
| 210     | Aradhana Balraj Patil | 9822210010 | 160      |      |
| 211     | Aradhana Balraj Patil | 9822210011 | 161      |      |
| 212     | Aradhana Balraj Patil | 9822210012 | 162      |      |
| 213     | Aradhana Balraj Patil | 9822210013 | 163      |      |
| 214     | Aradhana Balraj Patil | 9822210014 | 164      |      |
| 215     | Aradhana Balraj Patil | 9822210015 | 165      |      |
| 216     | Aradhana Balraj Patil | 9822210016 | 166      |      |
| 217     | Aradhana Balraj Patil | 9822210017 | 167      |      |
| 218     | Aradhana Balraj Patil | 9822210018 | 168      |      |
| 219     | Aradhana Balraj Patil | 9822210019 | 169      |      |
| 220     | Aradhana Balraj Patil | 9822210020 | 170      |      |
| 221     | Aradhana Balraj Patil | 9822210021 | 171      |      |
| 222     | Aradhana Balraj Patil | 9822210022 | 172      |      |
| 223     | Aradhana Balraj Patil | 9822210023 | 173      |      |
| 224     | Aradhana Balraj Patil | 9822210024 | 174      |      |
| 225     | Aradhana Balraj Patil | 9822210025 | 175      |      |
| 226     | Aradhana Balraj Patil | 9822210026 | 176      |      |
| 227     | Aradhana Balraj Patil | 9822210027 | 177      |      |
| 228     | Aradhana Balraj Patil | 9822210028 | 178      |      |
| 229     | Aradhana Balraj Patil | 9822210029 | 179      |      |
| 230     | Aradhana Balraj Patil | 9822210030 | 180      |      |

Anekant Education Society'

## **Jaysingpur College Jaysingpur**

### **Department of Zoology**

**Wildlife Week 2022-23**

#### **Butterfly Walk: Report**

On the occasion of World wild life week IQAC, Department of Zoology and Botany has organized butterfly walk on 06/10/2022. Students have invited from various departments of Jaysingpur College Jaysingpur. Total 61 students were present on this butterfly walk. Inauguration of competition was held by the auspicious presence of Dr. M. R Akkole, Secretary, Local committee, Jaysingpur College Jaysingpur, Dr. N. P. Sawant Principal, Jaysingpur College, Jaysingpur and Dr. M.V Kale, Vice-principal, Jaysingpur College, Jaysingpur. This competition was headed by Mr. Faruk Mhetar, Butterfly Researcher and Mr. Sarvdaman Kulkarni, Wildlife photographer. Mr. Faruk Mehtar has given detailed information about butterfly garden and variety of butterfly, their life stages egg, larvae, pupa and adult butterfly .



*Dr. M. R. Akkole*  
Head  
Department of Zoology



Anekant Education Society's

# Jaysingpur College Jaysingpur

Department of Zoology

## Activity Report

Organized By: IQAC, Department of Zoology and Department of Botany

|  |  |
|--|--|
| Year:  | 2022-23  |
| Name of the Activity:                            | Mural Art  |
| Date:  | 06/10/2022   |
| Venue:   | Conference hall, Jaysingpur college,<br>Jaysingpur   |
| Co-coordinator:                                  | Dr. S. D. Umdale   |
| Organized for:<br>College/class/ staff           | All B. Sc. students  |
| No. of Participants                              | 106  |
| Nature:<br>(e.g. Academic, cultural, sports etc) | Academic   |
| Objectives of the Activity                       | To introduce mural art into the Science students to develop Science temperament in unique way  |
| Chief Guest/s or Resource Person/s               | NA   |
| Short Report (in English)                        | Department of Zoology and Botany has organized Mural Making Workshop on 06/10/2022. This mural making workshop was Inaugurated in the auspicious presence of Dr. M. R Akkole, Secretary, Local committee, Jaysingpur College Jaysingpur, Dr. N. P. Sawant Principal, Jaysingpur College, Jaysingpur and Mr. Raman Kulkarni, Wildlife warden. Mr. Faruk Mhetar, Butterfly Researcher. Mr. Sarvdaman Kulkarni, Wildlife photographer and researcher and Mr. Amol Kulkarni, Assistant Professor in Environmental studies, Department of Technology, Shivaji University, Kolhapur. The mural artist Mr. Sunil Khade had demonstrated how to make the mural by making a Mural of leopard mural in front of student. |
| Outcome/Remark                                   | Students have enjoyed and learned how to make animal models using clay.  |

(# Photos, participant's list and other documents are attached)



MAHARASHTRA UNIVERSITY  
**JAYSINGPUR COLLEGE, JAYSINGPUR**  
 Department of Zoology and Botany  
**Celebration of World Wildlife Week-2022**  
 Workshop on Wild Animal Mural Art Attendance list  
 Organized by: Mr. Raman Kulkarni Date: 06 October 2022

| Sl. No. | Name of student | Roll No. | Roll No. | Roll No. |
|---------|-----------------|----------|----------|----------|
| 1       | Arjun Pawar     | 20220001 | 170      | 170      |
| 2       | Arjun Pawar     | 20220002 | 171      | 171      |
| 3       | Arjun Pawar     | 20220003 | 172      | 172      |
| 4       | Arjun Pawar     | 20220004 | 173      | 173      |
| 5       | Arjun Pawar     | 20220005 | 174      | 174      |
| 6       | Arjun Pawar     | 20220006 | 175      | 175      |
| 7       | Arjun Pawar     | 20220007 | 176      | 176      |
| 8       | Arjun Pawar     | 20220008 | 177      | 177      |
| 9       | Arjun Pawar     | 20220009 | 178      | 178      |
| 10      | Arjun Pawar     | 20220010 | 179      | 179      |
| 11      | Arjun Pawar     | 20220011 | 180      | 180      |
| 12      | Arjun Pawar     | 20220012 | 181      | 181      |
| 13      | Arjun Pawar     | 20220013 | 182      | 182      |
| 14      | Arjun Pawar     | 20220014 | 183      | 183      |
| 15      | Arjun Pawar     | 20220015 | 184      | 184      |
| 16      | Arjun Pawar     | 20220016 | 185      | 185      |
| 17      | Arjun Pawar     | 20220017 | 186      | 186      |
| 18      | Arjun Pawar     | 20220018 | 187      | 187      |
| 19      | Arjun Pawar     | 20220019 | 188      | 188      |
| 20      | Arjun Pawar     | 20220020 | 189      | 189      |
| 21      | Arjun Pawar     | 20220021 | 190      | 190      |
| 22      | Arjun Pawar     | 20220022 | 191      | 191      |
| 23      | Arjun Pawar     | 20220023 | 192      | 192      |
| 24      | Arjun Pawar     | 20220024 | 193      | 193      |
| 25      | Arjun Pawar     | 20220025 | 194      | 194      |
| 26      | Arjun Pawar     | 20220026 | 195      | 195      |
| 27      | Arjun Pawar     | 20220027 | 196      | 196      |
| 28      | Arjun Pawar     | 20220028 | 197      | 197      |
| 29      | Arjun Pawar     | 20220029 | 198      | 198      |
| 30      | Arjun Pawar     | 20220030 | 199      | 199      |
| 31      | Arjun Pawar     | 20220031 | 200      | 200      |
| 32      | Arjun Pawar     | 20220032 | 201      | 201      |
| 33      | Arjun Pawar     | 20220033 | 202      | 202      |
| 34      | Arjun Pawar     | 20220034 | 203      | 203      |
| 35      | Arjun Pawar     | 20220035 | 204      | 204      |
| 36      | Arjun Pawar     | 20220036 | 205      | 205      |
| 37      | Arjun Pawar     | 20220037 | 206      | 206      |
| 38      | Arjun Pawar     | 20220038 | 207      | 207      |
| 39      | Arjun Pawar     | 20220039 | 208      | 208      |
| 40      | Arjun Pawar     | 20220040 | 209      | 209      |
| 41      | Arjun Pawar     | 20220041 | 210      | 210      |
| 42      | Arjun Pawar     | 20220042 | 211      | 211      |
| 43      | Arjun Pawar     | 20220043 | 212      | 212      |
| 44      | Arjun Pawar     | 20220044 | 213      | 213      |
| 45      | Arjun Pawar     | 20220045 | 214      | 214      |
| 46      | Arjun Pawar     | 20220046 | 215      | 215      |
| 47      | Arjun Pawar     | 20220047 | 216      | 216      |
| 48      | Arjun Pawar     | 20220048 | 217      | 217      |
| 49      | Arjun Pawar     | 20220049 | 218      | 218      |
| 50      | Arjun Pawar     | 20220050 | 219      | 219      |
| 51      | Arjun Pawar     | 20220051 | 220      | 220      |
| 52      | Arjun Pawar     | 20220052 | 221      | 221      |
| 53      | Arjun Pawar     | 20220053 | 222      | 222      |
| 54      | Arjun Pawar     | 20220054 | 223      | 223      |
| 55      | Arjun Pawar     | 20220055 | 224      | 224      |
| 56      | Arjun Pawar     | 20220056 | 225      | 225      |
| 57      | Arjun Pawar     | 20220057 | 226      | 226      |
| 58      | Arjun Pawar     | 20220058 | 227      | 227      |
| 59      | Arjun Pawar     | 20220059 | 228      | 228      |
| 60      | Arjun Pawar     | 20220060 | 229      | 229      |
| 61      | Arjun Pawar     | 20220061 | 230      | 230      |
| 62      | Arjun Pawar     | 20220062 | 231      | 231      |
| 63      | Arjun Pawar     | 20220063 | 232      | 232      |
| 64      | Arjun Pawar     | 20220064 | 233      | 233      |
| 65      | Arjun Pawar     | 20220065 | 234      | 234      |
| 66      | Arjun Pawar     | 20220066 | 235      | 235      |
| 67      | Arjun Pawar     | 20220067 | 236      | 236      |
| 68      | Arjun Pawar     | 20220068 | 237      | 237      |
| 69      | Arjun Pawar     | 20220069 | 238      | 238      |
| 70      | Arjun Pawar     | 20220070 | 239      | 239      |
| 71      | Arjun Pawar     | 20220071 | 240      | 240      |
| 72      | Arjun Pawar     | 20220072 | 241      | 241      |
| 73      | Arjun Pawar     | 20220073 | 242      | 242      |
| 74      | Arjun Pawar     | 20220074 | 243      | 243      |
| 75      | Arjun Pawar     | 20220075 | 244      | 244      |
| 76      | Arjun Pawar     | 20220076 | 245      | 245      |
| 77      | Arjun Pawar     | 20220077 | 246      | 246      |
| 78      | Arjun Pawar     | 20220078 | 247      | 247      |
| 79      | Arjun Pawar     | 20220079 | 248      | 248      |
| 80      | Arjun Pawar     | 20220080 | 249      | 249      |
| 81      | Arjun Pawar     | 20220081 | 250      | 250      |
| 82      | Arjun Pawar     | 20220082 | 251      | 251      |
| 83      | Arjun Pawar     | 20220083 | 252      | 252      |
| 84      | Arjun Pawar     | 20220084 | 253      | 253      |
| 85      | Arjun Pawar     | 20220085 | 254      | 254      |
| 86      | Arjun Pawar     | 20220086 | 255      | 255      |
| 87      | Arjun Pawar     | 20220087 | 256      | 256      |
| 88      | Arjun Pawar     | 20220088 | 257      | 257      |
| 89      | Arjun Pawar     | 20220089 | 258      | 258      |
| 90      | Arjun Pawar     | 20220090 | 259      | 259      |
| 91      | Arjun Pawar     | 20220091 | 260      | 260      |
| 92      | Arjun Pawar     | 20220092 | 261      | 261      |
| 93      | Arjun Pawar     | 20220093 | 262      | 262      |
| 94      | Arjun Pawar     | 20220094 | 263      | 263      |
| 95      | Arjun Pawar     | 20220095 | 264      | 264      |
| 96      | Arjun Pawar     | 20220096 | 265      | 265      |
| 97      | Arjun Pawar     | 20220097 | 266      | 266      |
| 98      | Arjun Pawar     | 20220098 | 267      | 267      |
| 99      | Arjun Pawar     | 20220099 | 268      | 268      |
| 100     | Arjun Pawar     | 20220100 | 269      | 269      |

| Sl. No. | Name of student | Roll No. | Roll No. | Roll No. |
|---------|-----------------|----------|----------|----------|
| 1       | Arjun Pawar     | 20220001 | 170      | 170      |
| 2       | Arjun Pawar     | 20220002 | 171      | 171      |
| 3       | Arjun Pawar     | 20220003 | 172      | 172      |
| 4       | Arjun Pawar     | 20220004 | 173      | 173      |
| 5       | Arjun Pawar     | 20220005 | 174      | 174      |
| 6       | Arjun Pawar     | 20220006 | 175      | 175      |
| 7       | Arjun Pawar     | 20220007 | 176      | 176      |
| 8       | Arjun Pawar     | 20220008 | 177      | 177      |
| 9       | Arjun Pawar     | 20220009 | 178      | 178      |
| 10      | Arjun Pawar     | 20220010 | 179      | 179      |
| 11      | Arjun Pawar     | 20220011 | 180      | 180      |
| 12      | Arjun Pawar     | 20220012 | 181      | 181      |
| 13      | Arjun Pawar     | 20220013 | 182      | 182      |
| 14      | Arjun Pawar     | 20220014 | 183      | 183      |
| 15      | Arjun Pawar     | 20220015 | 184      | 184      |
| 16      | Arjun Pawar     | 20220016 | 185      | 185      |
| 17      | Arjun Pawar     | 20220017 | 186      | 186      |
| 18      | Arjun Pawar     | 20220018 | 187      | 187      |
| 19      | Arjun Pawar     | 20220019 | 188      | 188      |
| 20      | Arjun Pawar     | 20220020 | 189      | 189      |
| 21      | Arjun Pawar     | 20220021 | 190      | 190      |
| 22      | Arjun Pawar     | 20220022 | 191      | 191      |
| 23      | Arjun Pawar     | 20220023 | 192      | 192      |
| 24      | Arjun Pawar     | 20220024 | 193      | 193      |
| 25      | Arjun Pawar     | 20220025 | 194      | 194      |
| 26      | Arjun Pawar     | 20220026 | 195      | 195      |
| 27      | Arjun Pawar     | 20220027 | 196      | 196      |
| 28      | Arjun Pawar     | 20220028 | 197      | 197      |
| 29      | Arjun Pawar     | 20220029 | 198      | 198      |
| 30      | Arjun Pawar     | 20220030 | 199      | 199      |
| 31      | Arjun Pawar     | 20220031 | 200      | 200      |
| 32      | Arjun Pawar     | 20220032 | 201      | 201      |
| 33      | Arjun Pawar     | 20220033 | 202      | 202      |
| 34      | Arjun Pawar     | 20220034 | 203      | 203      |
| 35      | Arjun Pawar     | 20220035 | 204      | 204      |
| 36      | Arjun Pawar     | 20220036 | 205      | 205      |
| 37      | Arjun Pawar     | 20220037 | 206      | 206      |
| 38      | Arjun Pawar     | 20220038 | 207      | 207      |
| 39      | Arjun Pawar     | 20220039 | 208      | 208      |
| 40      | Arjun Pawar     | 20220040 | 209      | 209      |
| 41      | Arjun Pawar     | 20220041 | 210      | 210      |
| 42      | Arjun Pawar     | 20220042 | 211      | 211      |
| 43      | Arjun Pawar     | 20220043 | 212      | 212      |
| 44      | Arjun Pawar     | 20220044 | 213      | 213      |
| 45      | Arjun Pawar     | 20220045 | 214      | 214      |
| 46      | Arjun Pawar     | 20220046 | 215      | 215      |
| 47      | Arjun Pawar     | 20220047 | 216      | 216      |
| 48      | Arjun Pawar     | 20220048 | 217      | 217      |
| 49      | Arjun Pawar     | 20220049 | 218      | 218      |
| 50      | Arjun Pawar     | 20220050 | 219      | 219      |
| 51      | Arjun Pawar     | 20220051 | 220      | 220      |
| 52      | Arjun Pawar     | 20220052 | 221      | 221      |
| 53      | Arjun Pawar     | 20220053 | 222      | 222      |
| 54      | Arjun Pawar     | 20220054 | 223      | 223      |
| 55      | Arjun Pawar     | 20220055 | 224      | 224      |
| 56      | Arjun Pawar     | 20220056 | 225      | 225      |
| 57      | Arjun Pawar     | 20220057 | 226      | 226      |
| 58      | Arjun Pawar     | 20220058 | 227      | 227      |
| 59      | Arjun Pawar     | 20220059 | 228      | 228      |
| 60      | Arjun Pawar     | 20220060 | 229      | 229      |
| 61      | Arjun Pawar     | 20220061 | 230      | 230      |
| 62      | Arjun Pawar     | 20220062 | 231      | 231      |
| 63      | Arjun Pawar     | 20220063 | 232      | 232      |
| 64      | Arjun Pawar     | 20220064 | 233      | 233      |
| 65      | Arjun Pawar     | 20220065 | 234      | 234      |
| 66      | Arjun Pawar     | 20220066 | 235      | 235      |
| 67      | Arjun Pawar     | 20220067 | 236      | 236      |
| 68      | Arjun Pawar     | 20220068 | 237      | 237      |
| 69      | Arjun Pawar     | 20220069 | 238      | 238      |
| 70      | Arjun Pawar     | 20220070 | 239      | 239      |
| 71      | Arjun Pawar     | 20220071 | 240      | 240      |
| 72      | Arjun Pawar     | 20220072 | 241      | 241      |
| 73      | Arjun Pawar     | 20220073 | 242      | 242      |
| 74      | Arjun Pawar     | 20220074 | 243      | 243      |
| 75      | Arjun Pawar     | 20220075 | 244      | 244      |
| 76      | Arjun Pawar     | 20220076 | 245      | 245      |
| 77      | Arjun Pawar     | 20220077 | 246      | 246      |
| 78      | Arjun Pawar     | 20220078 | 247      | 247      |
| 79      | Arjun Pawar     | 20220079 | 248      | 248      |
| 80      | Arjun Pawar     | 20220080 | 249      | 249      |
| 81      | Arjun Pawar     | 20220081 | 250      | 250      |
| 82      | Arjun Pawar     | 20220082 | 251      | 251      |
| 83      | Arjun Pawar     | 20220083 | 252      | 252      |
| 84      | Arjun Pawar     | 20220084 | 253      | 253      |
| 85      | Arjun Pawar     | 20220085 | 254      | 254      |
| 86      | Arjun Pawar     | 20220086 | 255      | 255      |
| 87      | Arjun Pawar     | 20220087 | 256      | 256      |
| 88      | Arjun Pawar     | 20220088 | 257      | 257      |
| 89      | Arjun Pawar     | 20220089 | 258      | 258      |
| 90      | Arjun Pawar     | 20220090 | 259      | 259      |
| 91      | Arjun Pawar     | 20220091 | 260      | 260      |
| 92      | Arjun Pawar     | 20220092 | 261      | 261      |
| 93      | Arjun Pawar     | 20220093 | 262      | 262      |
| 94      | Arjun Pawar     | 20220094 | 263      | 263      |
| 95      | Arjun Pawar     | 20220095 | 264      | 264      |
| 96      | Arjun Pawar     | 20220096 | 265      | 265      |
| 97      | Arjun Pawar     | 20220097 | 266      | 266      |
| 98      | Arjun Pawar     | 20220098 | 267      | 267      |
| 99      | Arjun Pawar     | 20220099 | 268      | 268      |
| 100     | Arjun Pawar     | 20220100 | 269      | 269      |



# Jaysingpur College Jaysingpur

## Department of Zoology

### Wildlife Week 2022-23

#### Mural Making Report

Department of Zoology and Botany has organized Mural Making Workshop on 06/10/2022. This mural making workshop was Inaugurated in the auspicious presence of Dr. M. R Akkole, Secretary, Local committee, Jaysingpur College Jaysingpur, Dr. N. P. Sawant Principal, Jaysingpur College, Jaysingpur and Mr. Raman Kulkarni, Wildlife warden. Mr. Faruk Mhetar, Butterfly Researcher. Mr. Sarvdaman Kulkarni, Wildlife photographer and researcher and Mr. Amol Kulkarni, Assistant Professor in Environmental studies, Department of Technology, Shivaji University, Kolhapur. The mural artist Mr. Sunil Khade had demonstrated how to make the mural by making a Mural of leopard mural in front of student.



  
Head  
Department of Zoology



Anekant Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

# CRITERION I

## CURRICULAR ASPECTS

### 1.3.2

**1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year (2022-23)**

**INTERNSHIP & MOU'S**

**Anekant Education Society's  
Jaysingpur College, Jaysingpur  
Department of Commerce  
Academic Year 2022-23**

**List of Students involved in Internship – Class – M. Com. I**

| <b>Sr.</b> | <b>Roll No.</b> | <b>Name of the student</b>      | <b>Class</b> | <b>Internship Details (Office/Place)</b>                                       |
|------------|-----------------|---------------------------------|--------------|--|
| 1          | 1               | Mr. Gavali Shivam Anil          | M.Com. I     | K S Demapure & Associates Chartered Accounts, Jaysingpur                       |
| 2          | 2               | Miss. Mudashi Rutuja Siddhappa  | M.Com. I     | Dr. Appasaheb Urf Sa.Re Patil Jaysigpur Udagoan Sahakari Bank Ltd. Jaysingpur. |
| 3          | 3               | Mr.Koli Omkar Dadaso            | M.Com. I     | Kurade Gruh Udyog , Nandani.   |
| 4          | 4               | Miss. Gawade Maduri Vitthal     | M.Com. I     | FMCG Distributor with Special Reference to Ruturaj Agency, Jaysingpur.         |
| 5          | 5               | Miss Aurwade Kishori Shantinath | M.Com. I     | A. P. Patil Sarvodaya Grameen Cooperative Credit Society Limited, Hasur        |
| 6          | 6               | Miss Kulkarni Chintamani Sudhir | M.Com. I     | S. W. Wealth Consultancy conducted   |
| 7          | 7               | Miss Rutuja Dhanpal Mangave     | M.Com. I     | Nandani Sahakari Bank Ltd. Nandani   |
| 8          | 8               | Mr. Patil Satish Maruti         | M.Com. I     | V. K. Bastawade & Co. Chartered Accountants, Jaysingpur                        |
| 9          | 9               | Miss Aditi Manojkumar Majale    | M.Com. I     | Sarvoday Krushi Seva Jaysingpur  |
| 10         | 10              | Mr. Nikhil Bhagwant Badnikai    | M.Com. I     | V. K. Bastwade and Company Chartered Accountant, Jaysingpur                    |
| 11         | 11              | Mr. Salokhe Dhananjay Anil      | M.Com. I     | M. V. Khadilkar Tax Consultants, Jaysingpur                                    |

|    |    |                                 |          |  |
|----|----|---------------------------------|----------|--|
| 12 | 12 | Miss Ankita Anand Powar         | M.Com. I | Majarewadi Mahila Gramin Bigar Sheti Sahakari Pathsanstha Maryadit, Majarewadi             |
| 13 | 13 | Miss. Bhandare Sujata Santaji.  | M.Com. I | SBM Computer, Kurundwad.   |
| 14 | 14 | Miss. Awale Snehal Vinod.       | M.Com. I | SBM Computer Institute, Kurundwad.   |
| 16 | 16 | Mr. Sammed Sanjay Borgave       | M.Com. I | Yashwant Urban Co-Operative credit society limited Ghunaki.                                |
| 20 | 20 | Miss- Shetake Sarita Shashikant | M.Com. I | K S Demapure & Associates Chartered Accounts, Jaysingpur                                   |
| 21 | 21 | Miss.Jamadar Afasana Mirasab    | M.Com. I | K S Demapure & Associates Chartered Accounts, Jaysingpur                                   |
| 22 | 22 | Mr. Sanket Suryakant Patil      | M.Com. I | Dattatray Chains Pvt. Ltd. Kolhapur.   |
| 27 | 27 | Miss. Bhagate Swati Vidyadhar   | M.Com. I | Nandani Sahakari Bank Ltd, Nandani.  |
| 28 | 28 | Miss. Pangam Rutuja Sharad      | M.Com. I | Nandani Sahakari Bank Ltd, Nandani.  |
| 29 | 29 | Miss Pujari Komal Aananda       | M.Com. I | Ydraov Co –operative bank ltd., Yadrav   |
| 30 | 30 | Mr. Ganesh sanjay Kadam         | M.Com. I | Aamanna Kakade Chinchwad Gramin Bigar- Sheti Shetkari Co- Opertive Society Ltd . Chinchwad |
| 32 | 32 | Mr.Pramod Mahavir miraje        | M.Com. I | Aamanna Kakade Chinchwad Gramin Bigar- Sheti Shetkari Co- Opertive Society Ltd . Chinchwad |
| 33 | 33 | Miss. Vidhya Baban Rananavare   | M.Com. I | Sanika Technologies, Jaysingpur  |
| 38 | 38 | Miss. Mane Snehal Balasaheb     | M.Com. I | Hari Om Plywood, Jaysingpur  |
| 39 | 39 | Miss. Gaura Shantinath Hankare  | M.Com. I | Expert Business Accounting, Jaysingpur.  |
| 41 | 41 | Mr. More Pruthviraj Dhairyasinh | M.Com. I | Shree Venkateshwara Accounting Bureau , Jaysingpur   |

|    |    |  |          |   |
|----|----|--|----------|---|
| 43 | 43 | Miss.Khilare Rutuja Ravsaheb           | M.Com. I | Shree Venkateshwara Accounting Bureau , Jaysingpur                                  |
| 44 | 44 | Miss. Magdum Arati Anil                | M.Com. I | Pioneer Associates, Jaysingpur  |
| 45 | 45 | Asmita manik Dhone                     | M.Com. I | C.A .Buddhiraj Khurape S B Associates   |
| 48 | 48 | Miss.Patil Khetrappa Pratiksha Prakash | M.Com. I | Shree Venkateshwara Accounting Bureau , Jaysingpur                                  |
| 49 | 49 | Miss. Katare Sneha Dilip               | M.Com. I | Shree Venkateshwara Accounting Bureau , Jaysingpur                                  |
| 50 | 50 | Mr. Mali Pratik Anil                   | M.Com. I | Nidhi Associates, Jaysingpur  |
| 53 | 53 | Aishwarya manik dhone                  | M.Com. I | C.A.Buddhiraj Khurape SB Associates, Kurundwad                                      |
| 55 | 55 | Patil Pradnya Ashok                    | M.Com. I | Shree Venkateshwara Accounting Bureau, Jaysingpur.                                  |
| 56 | 56 | Rutuja Baban Patil Khetrappa           | M.Com. I | Karmveer Gramin Bigar Sheti Sahakari Patsantha Maryadit, Jainapur. Branch – Danoli. |
| 57 | 57 | Mr. Keval Kiran Belkude.               | M.Com. I | V T & ASSOCIATES, Sangli  |
| 64 | 64 | Mr. Abhishek Appasaheb Pudale.         | M.Com. I | Mr. Ajit Magdum ,Jaysingpur.  |
| 65 | 65 | Miss. Godhade Shweta Namdev            | M.Com. I | Pioneer Associates, Jaysingpur  |
| 67 | 67 | Miss. Honagoudar Roopali Suragouda     | M.Com. I | Shree Ambika Traders , Sangli   |
| 68 | 68 | Miss. Powar Ankita Aananda.            | M.Com. I | Majarewadi Mahila Gramin Bigar Sheti Sahakari Pathsansta Maryadit, Majarewadi.      |
| 69 | 69 | Mr. Patil Shrutik Sunil                | M.Com. I | V. K. Bastawade & Co. Chartered Accounts, Jaysingpur                                |
| 70 | 73 | Mr. Lambe Shantanu Shankar             | M.Com. I | Saraswat Co-operative Bank Ltd Sangli.  |

|    |    |                                  |          |   |
|----|----|----------------------------------|----------|---|
| 71 | 75 | Miss. Alase Nikita Shivagonda    | M.Com. I | Chartered Accountancy Firm.   |
| 72 | 76 | Mr. Upadhy Sarwadnya Rajkumar    | M.Com. I | Prakash Gramin Biger Shite Sahakari Path Sanstha. Shirati           |
| 73 | 77 | Mr. Patil Pratik Prakash         | M.Com. I | K S Demapure & Associates Chartered Accounts, Jaysingpur            |
| 74 | 80 | Miss. Ganje Chandani Dilip       | M.Com. I | Swabhimani Bandhkam Kamgar Sanghatana, Ichalkaranji.                |
| 75 | 82 | Miss. Hiremath Priyanka Eknath   | M.Com. I | Expert Business Accounting, Jaysingpur.                             |
| 76 | 83 | Miss. Patil Sakshi Sagar         | M.Com. I | Rajiv Computer Institute, Kurundwad.                                |
| 77 | 84 | Miss. Aurwade Kishori Shantinath | M.Com. I | A.P.Patil sarvodaya Grameen Co-operative credit society Ltd, Hasur. |
| 78 | 85 | Miss. Divya Subhash Magdum       | M.Com. I | Dhanshri Gramin Bigar Sheti Sahakari Patsanstha Maryadit, Herwad.   |
| 79 | 87 | Mr. Badnikai Nikhil Bhagwant     | M.Com. I | V. K. Bastawade & Co. Chartered Accounts, Jaysingpur                |
| 80 | 88 | Miss Majale Aditi Manojkumar     | M.Com. I | Sarvoday Agricultural Industry, Jaysingpur                          |
| 81 | 91 | Miss Kusanale shraddha shrenik   | M.Com. I | S. K. Patil College , Kurundwad Office Work.                        |
| 82 | 93 | Mangave Rutuja Dhanpal           | M.Com. I | Nandani Sahakari Bank Ltd, Nandani. Branch – Jaysingpur.            |
| 83 | 95 | Kulkarni Chintamani Kulkarni     | M.Com. I | S.W Wealth conunsultancy Under C.A Sunilkumar Wadhwani.             |

|    |     |                                  |          |   |
|----|-----|----------------------------------|----------|---|
| 84 | 96  | Miss. Keripale Preeti Nandkumar. | M.Com. I | Dinbandu Vividh Karyakari Sahakari (Vikas) Seva Sanstha Shedshal. |
| 85 | 97  | Miss. Ankalkope Sonali Subhash   | M.Com. I | Yash Computer Education Rajapur                                   |
| 86 | 98  | Ravina Sarjerao Kamble           | M.Com. I | Indian Ovearseas BankLtd. Jaysingpur                              |
| 87 | 100 | Magdum Harshada Sanjay           | M.Com. I | CA Sandip Tagare and Associates, Sangli                           |

**An Internship / Apprenticeship Report**

**prepared by**

**Omkar Dadaso Koli**

**under the guidance of**

**Prof. (Dr.) N.L.Kadam**

**and under the mentorship of**

**Miss. Kusum Raju Kurade**

**in the**

**Kurade Gruh Udyog, Nandani**

**Internship / Apprenticeship is conducted**

**for the period of**

**from the 22<sup>nd</sup> March to the 31<sup>th</sup> May 2023**

**for 61 days and for 244 hours**

**submitted to**

**Jaysingpur College, Jaysingpur**

**Academic year – 2022-23**



**An Internship / Apprenticeship Report**

prepared by

**Miss. Gaura Shantinath Hankare**

under the guidance of

**Dr. (Mrs) S. R. Nakate**

and under the mentorship of

**Mr. Ajitkumar S Magdum**

in the

**Expert Business Accounting**

for the period of

**from the 30-3-2023 to the 25-5-2023**

**for 41 days and for 180 hours**

**submitted to**

**Jaysingpur College, Jaysingpur.**

**Academic year – 2022-23**

An Internship / Apprenticeship Report  
prepared by

**MISS. HARSHADA SANJAY MAGDUM**

**UNDER THE GUIDANCE OF  
Mrs. S. S. Chougule**

**M.Com, MBA, SET,  
M.Phil, MA(Eco).**

**and under the mentorship of**

**CA SANDIP BALKRUSHNA TAGARE**

**(PROPRIETER)**

**in the**

**CA SANDIP TAGARE AND ASSOCIATES**

**for the period of  
from 20/02/2023 to 22/05/2023 for  
78 days and for 318 hours**

**SUBMITTED TO  
JAYSINGPUR COLLEGE, JAYSINGPUR.**

**Academic year 2022-2023**

**An Internship / Apprenticeship Report**

prepared by

**Nikhil Bhagwant Badnikai**

under the guidance of

**Miss. A.J.Kamble**

and under the mentorship of

**CA Vidyasagar K. Bastawade**

**Chartered Accountants**

in the

**V. K. BASTAWADE & CO..**

**Chartered Accountants**

**Internship / Apprenticeship is conducted**

for the period of

**from the 1<sup>st</sup> March to the 20<sup>th</sup> May 2023**

**for 70 days and for 207 hours**

submitted to

**Jaysingpur College, Jaysingpur**

**Academic year – 2022-23**



Swatantrya Senani Late Shripal Alase (Kaka)  
Kurundwad Urban Co-op. Bank Ltd., Kurundwad.

Branch - Jaysingpur

REF NO- 194/23

DATE - 12/06/2023

## CERTIFICATE

To whom so ever It may concern

This is to certify that the project report entitled " A STUDY ON LOANS AND DEPOSITS " WITH SPECIAL REFERENCE TO S.S.L. SHRIPAL ALASE (KAKA) KURUNDWAD URABAN CO-OPERATIVE BANK LTD. KURUNDWAD Submitted to SHIVAJI UNIVERSITY KOLHAPUR in partial fulfillment of requirements for the degree of MASTER OF COMMERCE is a record of original work done by MR. KEVAL KIRAN BELKUDE during the period of his study in JAYSINGPUR COLLEGE JAYSINGPUR.

To the best of my knowledge and belief it is original work and has not been submitted to the any other university / institution. This project presents his sincere work carried out under my guidance and supervision in the year 2022-23

PLACE ; JAYSINGPUR

DATE ; 12-JUN-2023



MR. ANIL CHOUGULE  
BRANCH MANAGER JAYSINGPUR

**YADRAV CO-OPERATIVE  
BANK LTD., YADRAV**

यद्राव को-ऑपरेटिव्ह बँक लिमिटेड, यद्राव

No.-H01 48 /2023 -2024

**CERTIFICATE**

This is to certify that, **Miss. Komal Ananda Pujari**, student of Master of Commerce at Jaysingpur College Jaysingpur has completed his project work entitled **“COMPERATIVE STUDY ON FINANCIAL STATEMENTS OF YADRAV CO-OPERATIVE BANK LTD, YADRAV AND SHRI ADINATH CO-OPERATIVE BANK LTD, ICHALKARANJI ”** during the financial year 2022-23.

He has put his sincere efforts and taken keen interest to collect data and knowing various aspects related to his project work.

Date- 13 June 2023

Place- Jaysingpur

**YADRAV  
BANK**

For Yadrav Co-Operative bank Ltd, Yadrav

  
Chief Executive Officer

Shot by ARU

2023.09.06 10:45

realme



Ref. No.

Date :

## CERTIFICATE

To whom so ever it may concern

This is to certify that MR. KEVAL KIRAN BELKUDE a student of M.COM First year JAYSINGPUR COLLEGE JAYSINGPUR was appointed as Intern / Apprentice and was assigned works of AUDIT sections as Assistant auditor.

He has satisfactorily carried out work allotted to him from time to time. He has worked for 50 days and totally for 283 hours.

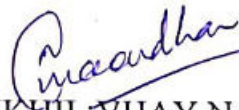
During the period of Internship / Apprenticeship he has maintained good record of attendance, good relations with staff and colleagues as well as shown keen interest in learning.

We wish him every success in his education, career and life.



DATE :- 12-Jun-2023

PLACE:- Sangali

  
CA. NIKHIL VIJAY NAVANDHAR  
MEMBERSHIP NO.- 124162  
DESIGNATION- PARTNER

**Sangli Office :**

"Prachiti" 168, Vakharbhag  
Sangli - 416416  
Phone : 0233 -2624521  
E-mail : vijaynavandhar@rediffmail.com

**Kolhapur Office :**

304/1, Asara, Near Hotel Elegant, Opp. Patel  
Colony, Ruikar Colony, Kolhapur - 416 005.  
Phone : 0231 - 2534142  
E-mail : vijaynavandhar@rediffmail.com

**Pune Office :**

Flat No. 10, Kundan Park  
Shivajinagar, Pune - 411004  
Phone : 9850599555  
E-mail : nawandhar123@gmail.com

# RUTURAJ AGENCIES

8<sup>th</sup> Lane, Jaysingpur  
Tal: - Shirol Dist :- Kolhapur  
Mobile No. :- 8380995099

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To whom so ever it may concern,

This is to certify that Miss. Madhuri Vitthal Gawade of M.Com.-I student of Jaysingpur College, Jaysingpur was appointed as Intern / Apprentice and was assigned works of Assistant sections as Assistant.

She has satisfactorily carried out work allotted to her from time to time. She has worked for 76 days and totally for 190 hours.

During the period of Internship/ Apprenticeship she has maintained good record of attendance, good relations with staff and colleagues as well as shown keen interest in learning. We wish her every success in her education, career and life.

Date – 13-06-2023

Place – Jaysinpur

Signature of Mentor



Mr. M. J. Mane

(Manager)

**Ruturaj Agencies**



**Proprietor**



V K BASTAWADE & CO  
Chartered Accountants

Consultancy, Audit, Taxation, Finance  
[WWW.vkbastawadeandco.com](http://WWW.vkbastawadeandco.com)

Ref :

Date: 22/05/2023

### CERTIFICATE

This is to confirm that Mr. SATISH MARUTI PATIL, M.COM student of Jaysingpur College, Jaysingpur has undergone internship training program in our office for the period beginning from March 01, 2023 to May 20, 2023 (worked for 207 hours). During this period, he has undertaken Accounting, Auditing and GST (Goods & Service Tax) work of various clients in our office. During this internship program, his performance was excellent.



V K BASTAWADE & CO.,  
CHARTERED ACCOUNTANTS

CA Vidyasagar K. Bastawade  
Chartered Accountants  
( Partner )

Place :- JAYSINGPUR

Date :-22/05/2023

Branch Office- Kolhapur

CA Amol A Madiwal, FCA  
765/kh, Suyog Arcade, Gala No. 6,  
NR Raja kaka, Shahupuri, Kolhapur-416001  
Email- caamol\_madiwal@rediffmail.com

Branch Office- Jaysingpur

CA Prashant K Chougule FCA  
Hoskalle Chamber, Above LIC Office, 1st Floor, 9th Lane  
Jaysingpur-416101  
Email- pkchougule8@gmail.com Ph 02322-224444

Corporate Office- Jaysingpur

CA Vidyasagar K Bastawade FCA  
Plot No 07, "Swapn Heights" Mahaveer Housing  
Society, Jaysingpur ( Mouje Agar) Kolhapur-416101  
Email- vkbastawade@yahoo.co.in Ph 02322-222707



# Certificate of External Mentor

## Letter Head

To whom so ever it may concern

This is to certify that Miss. **Swati Vidyadhar Bhagate**. M. Com.I student of Jaysingpur College Jaysingpur was appointed as Intern / Apprentice and was assigned works of banking sections as clerk.

**She has satisfactorily carried out work allotted to her from time to time. She has worked for 35 days and totally for 184 hours.**


During the period of Internship / Apprenticeship she has maintained good record of attendance, good relations with staff and colleagues as well as shown keen interest in learning.

We wish her every success in her education, career and life.

Date - 13/06/2023

Place - Jaysingpur



 C.R. P. Kasalkar

Signature of Mentor

Name of the Mentor

Designation of Mentor

Seal

अनेकान्त एज्युकेशन सोसायटीचे,  
जयसिंगपूर कॉलेज, जयसिंगपूर  
वाणिज्य विभाग

जा.क्र.

दि. 10 / 02 / 2023

प्रति,

मा. व्यवस्थापक  
कर्मवीर भाऊराव पाटील,  
नागरी सहकारी पतसंस्था मर्या. सांगली.

विषय :- 'संशोधन प्रकल्प' साठी माहिती पूरविणेबाबत.

महोदय,

आमच्या महाविद्यालयात शिवाजी विद्यापीठाचा एम.कॉम. हा दोन वर्षांचा पदव्युत्तर अभ्यासक्रम सुरु आहे. या अभ्यासक्रमासाठी एक 'संशोधन प्रकल्प' प्रत्येक विद्यार्थ्यांने विद्यापीठास सादर करावयाचा असतो.

आमच्या महाविद्यालयातील श्री./श्रीमती ~~गावकी शिवम अनिल~~  
या विद्यार्थी/विद्यार्थीनीने आपल्या(संस्थेचे नांव) ~~कर्मवीर भाऊराव पाटील नागरी सह. पतसंस्था मर्या.~~  
या संस्थेवर (विषयाचे नांव) ~~A Study on Loans and Deposits~~  
या विषयावर 'संशोधन प्रकल्प' तयार करण्याचे ठरवले आहे.

कृपया सदर विद्यार्थ्यांस / विद्यार्थीनीस आवश्यक ती माहिती देवून सहकार्य करावे.  
ही विनंती.

कळावे, सहकार्यांच्या अपेक्षेने,

आपला विश्वासू,

*S. Kulkarni*

समन्वयक, एम.कॉम. विभाग  
जयसिंगपूर कॉलेज, जयसिंगपूर



ARU

Shot by ARU  
2023.09.06 11:02

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गली

अनेकान्त एज्युकेशन सोसायटीचे,  
जयसिंगपूर कॉलेज, जयसिंगपूर  
वाणिज्य विभाग

दि. 13/2/2023

जा.क्र.

प्रति,

सा. व्यवस्थापक  
समता ग्रामीण बिगर  
शेती सहकारी पतसंस्था  
लिमिटेड सांगली

विषय :- 'संशोधन प्रकल्प' साठी माहिती पूरविणेबाबत.

महोदय,

आमच्या महाविद्यालयात शिवाजी विद्यापीठाचा एम.कॉम. हा दोन वर्षांचा पदव्युत्तर अभ्यासक्रम सुरु आहे. या अभ्यासक्रमासाठी एक 'संशोधन प्रकल्प' प्रत्येक विद्यार्थ्याने विद्यापीठास सादर करावयाचा असतो.

आमच्या महाविद्यालयातील श्री./श्रीमती कु. प्रहसुजा सिद्धाजी मुडशी  
या विद्यार्थ्या/विद्यार्थ्यांनीने आपल्या(संस्थेचे नांव) Samta Gramin bigatsheti sahakar  
Pathasanstha Ltd. Sangli.  
या संस्थेवर (विषयाचे नांव) A study on financial performance  
या विषयावर 'संशोधन प्रकल्प' तयार करण्याचे ठरवले आहे. of Samta Gramin bigatsheti Sahakari Pathasanstha Ltd. Sangli

कृपया सदर विद्यार्थ्यांस / विद्यार्थ्यांनीस आवश्यक ती माहिती देवून सहकार्य करावे.

ही विनंती.

कळावे, सहकार्यांच्या अपेक्षेने,

आपला विश्वासू,

Sindalk

समन्वयक, एम.कॉम. विभाग  
जयसिंगपूर कॉलेज, जयसिंगपूर

अनेकान्त एज्युकेशन सोसायटीचे,  
जयसिंगपूर कॉलेज, जयसिंगपूर  
वाणिज्य विभाग

जा. क्र.

दि. 8 / 02 / 2023

प्रति,

मा. व्यवस्थापक,  
ऋतुराज एजन्सीज,  
जयसिंगपूर

विषय - 'Internship/ Apprenticeship' साठी परवानगी देणेबाबत.

महोदय,

आमच्या महाविद्यालयात शिवाजी विद्यापीठाचा एम. कॉम हा पदव्युत्तर अभ्यासक्रम सुरु आहे. या अभ्यासक्रमाचा एक भाग म्हणून विद्यार्थ्यांना 'Internship/ Apprenticeship' करून त्याचा Report विद्यापीठास सादर करावायाचा असतो.

आमच्या महाविद्यालयातील श्री / श्रीमती कु. गावडे माधुरी विठ्ठल  
या विद्यार्थी / विद्यार्थीनीने आपल्या संस्थेचे नांव ऋतुराज एजन्सीज, जयसिंगपूर.  
या संस्थेमध्ये Internship/ Apprenticeship करण्याचे ठरवले आहे.

कृपया सदर विद्यार्थ्यास / विद्यार्थीनीस Internship/ Apprenticeship साठी परवानगी द्यावी व त्याबाबतचा अहवाल तयार करण्यासाठी आवश्यक ते सहकार्य करावे. ही विनंती.

कळावे, सहकार्याच्या अपक्षेने,

आपली विश्वासू,



प्रा. सौ. एस. आर. नकाते  
समन्वयक, एम. कॉम. कोर्स  
जयसिंगपूर कॉलेज, जयसिंगपूर

अनेकान्त एज्युकेशन सोसायटीचे,  
जयसिंगपूर कॉलेज, जयसिंगपूर  
वाणिज्य विभाग

जा. क्र.

दि. 09/02/2023

प्रति,

मा. व्यवस्थापक,  
श्री. के. बस्तवाडे,  
C.A. जयसिंगपूर.

विषय - 'Internship/ Apprenticeship' साठी परवानगी देणेबाबत.

महोदय,

आमच्या महाविद्यालयात शिवाजी विद्यापीठाचा एम. कॉम हा पदव्युत्तर अभ्यासक्रम सुरु आहे. या अभ्यासक्रमाचा एक भाग म्हणून विद्यार्थ्यांना 'Internship/ Apprenticeship' करून त्याचा Report विद्यापीठास सादर करावायाचा असतो.

आमच्या महाविद्यालयातील श्री / श्रीमती ~~निखिल भगवंत बदनिकर~~.

या विद्यार्थी / विद्यार्थीनीने आपल्या) संस्थेचे नांव) ~~श्री. के. बस्तवाडे व कंपनी C.A. जयसिंगपूर~~.  
या संस्थेमध्ये Internship/ Apprenticeship करण्याचे ठरवले आहे.

कृपया सदर विद्यार्थ्यास / विद्यार्थीनीस Internship/ Apprenticeship साठी परवानगी द्यावी व त्याबाबतचा अहवाल तयार करण्यासाठी आवश्यक ते सहकार्य करावे. ही विनंती.

कळावे, सहकार्यांच्या अपक्षेने,

आपली विश्वासू,



प्रा. सौ. एस. आर. नकाते  
समन्वयक, एम. कॉम. कोर्स  
जयसिंगपूर कॉलेज, जयसिंगपूर

Estd. - June 1964

Anekant Education Society's

JAYSINGPUR COLLEGE, JAYSINGPUR

of Arts, Commerce, Science & Computer Science

Jaysingpur - 416 101 Dist. Kolhapur, Maharashtra State, India

AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR

ACCREDITED AT THE A+ LEVEL BY NAAC - UGC

Tel. :- (O) 225381 Tel./Fax 226481(R) 225181-- ISD (0091) - STD (02322)

website - [www.jaysingpurcollege.in](http://www.jaysingpurcollege.in) e-mail - [jspcollegejsp@gmail.com](mailto:jspcollegejsp@gmail.com)



PRINCIPAL

DR. S.R.Manjre

M.9822215846

Ref. No. AES/JCJ/by hand

Date :- 16 /06 /2023

To,  
Manager,  
Swabhimani Dudh Dairy  
Industrial Estate Area,  
Taluka - Shirol, Dist. - Kolhapur  
416101

**Subject:** About internship permission for B.Sc. III Food Science & Quality Control passout students in your estimated industry.

Respected Sir / Madam,

Jaysingpur College, Jaysingpur is a well reputed institute for Science, Arts, and Commerce and accredited by NAAC with 'A' grade. Institute is established in 1964 and run by Anekant Education society, Baramati.

With referencess to above mentioned subject we are sending our following listed B.Sc. III (Food Science & quality control) passout students from our college for internship programme (30 days) as a part of co-curricular activities. This will help the students' understand the industrial process as well as it enhances their knowledge.

The student's names are as follows,

| S.N. | Name of Students            | Mob. No.   |
|------|-----------------------------|------------|
| 1    | Mr.Mobin Hamid Mujawar      | 7385786839 |
| 2    | Mr.Varad Avinash Ainapure   | 9028369302 |
| 3    | Miss.Priyanka Uttam Roy     | 9146699303 |
| 4    | Miss.Maya Ramchandra Kamble | 9156471847 |
| 5    | Miss.Taiyaba Maula Sanadi   | 9021637823 |
| 6    | Miss.Rutuja Bajirav Patil   | 9552232818 |
| 7    | Miss.Sanika Sarjerao Kogale | 8208413639 |

Head Department  
Food Science &  
Quality Control



Principal  
Jaysingpur College, Jaysingpur

**Swabhimani Agro Products Producer Co. Ltd.,**

Regd. Off. : Gat No. 1021, Kalamwadi Estate Road, UDGAON,  
Tal. Shirol, Dist. Kolhapur. Ph. 7722052391  
E-mail : swabhimaniagro@gmail.com  
www.swabhimaniagro.com



SAPPCL /TR / 2023 -24

Date : 10.08.2023

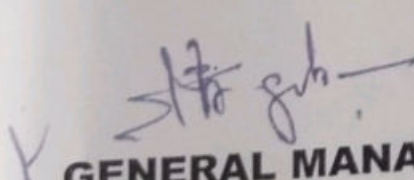
**TO WHOM IT MAY CONCERN**

This is to certify that Varad Avinash Ainapure, 3<sup>rd</sup> Year student of B.Sc. Food Science and Technology, Jaysingpur College, Jaysingpur." has successfully completed his training program from 23<sup>rd</sup> June 2023 to 27<sup>th</sup> July 2023 at "SWABHIMANI AGRO PRODUCTS PRODUCER CO. LTD."

During the period of his training programme with us, he was found punctual, hard working and inquisitive and he takes all knowledge of various section of our Dairy plant.

We wish him the best in all his future endeavors.

**FOR SWABHIMANI AGRO PRODUCTS PRODUCER CO.LTD,**

  
**GENERAL MANAGER**





**SAPPCL /TR / 2023 -24**

**Date : 09.08.2023**

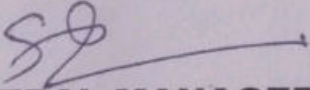
## **TO WHOM IT MAY CONCERN**

**This is to certify that Pranali Shivaji Powar, 3<sup>rd</sup> Year student of B.Sc. Food Science and Technology, Jaysingpur College, Jaysingpur.” has successfully completed her training program from 24<sup>th</sup> June 2023 to 10<sup>th</sup> July 2023 at “SWABHIMANI AGRO PRODUCTS PRODUCER CO. LTD.”**

**During the period of her training programme with us, she was found punctual, hard working and inquisitive and she takes all knowledge of various section of our Dairy plant.**

**We wish her the best in all her future endeavors.**

**FOR SWABHIMANI AGRO PRODUCTS PRODUCER CO.LTD,**

  
**GENERAL MANAGER**





Estd. - June 1964

॥ सिद्धिरनेकान्तात ॥



प्राचार्य-प्रा.डॉ.सूरत.ए.मांजरे

Anekant Education Society's  
JAYSINGPUR COLLEGE, JAYSINGPUR  
of Arts, Commerce, Science & Computer Science  
Jaysingpur - 416 101 Dist. Kolhapur, Maharashtra State, India  
AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR  
ACCREDITED AT THE 'A' LEVEL BY NAAC - UGC  
Tel. :- (O) 225381 Tel./Fax 226481(R) 225181-- ISD (0091) - STD (02322)  
website - www.jaysingpurcollege.com e-mail - jspcollegejsp@gmail.com

Ref. No. AES/JCJ/2022-23/

Date: 4/9/2023

To,  
The Manager/Owner,  
मृत्याध्यापक

देसाई विद्यामंदिर, उदगांव  
ता.शिरोळ, जि.कोल्हापूर  
प्लॉ.नं. 27340400701

Subject: Request for internship

Sir/ Madam,

My name is Dr.P.T.Mane, and I serve as of Asso.Prof.and Head, Department of Economics ,Jaysingpur College, Jaysingpur.

I am writing this letter on behalf of Jaysingpur College, Jaysingpur. In order to inform you that Amruta Ashok Koli is looking forward to joining the internship program from your esteemed company with Skill Enhancement Course (SEC),as per the curriculum. The student needs to join your company. Duration from 25/03/2023 to 5/04/2023.internship and attain a certificate after satisfactory training.

It will be a golden opportunity for the students as they will get to learn a lot of new things. It is to request you to kindly allow the mentioned student to join the training program from your reputed company.

For,

P. Mane  
Dr. P. T. Mane

Head, Department of Economics  
Jaysingpur College, Jaysingpur



S. Mane  
PRINCIPAL  
Jaysingpur College, Jaysingpur

# देसाई विद्यामंदिर, उदगांव

ता. शिरोळ, जि. कोल्हापूर



► मुख्याध्यापक :

श्री. विजयकुमार आ. कोळी, (B.A.B.Ed.)

जावक क्र. :

दिनांक : २५/१२/२०२३

आमच्या अशांत कुळी

ता. उदगांव ता. शिरोळ

आमच्या देसाई विद्या मंदिर उदगांव  
ता. शिरोळ या शाळेत दि. २५/१२/२०२३ ते  
दि. ५/१२/२०२३ मध्ये लॉन्की अध्यापकाचे  
काम छेले आहे.

संदर्भ दाखला त्यांच्या भाषापरिचय देणेत  
आला.

मुख्याध्यापक

देसाई विद्यामंदिर, उदगांव  
ता. शिरोळ, जि. कोल्हापूर  
प. डा. नं. 27340400701

सारे शिकुया, पुढे जाऊया...



## Memorandum of Understanding

Between

### Jaysingpur College, Jaysingpur and S.K.FOODS, Jaysingpur

Jaysingpur College, Jaysingpur and S.K.Foods, Jaysingpur declare that are consultancy services. Are hereby decided to cooperate in the field of mutual interest and thereby conclude this Memorandum of Understanding on the date 20.08.2021

#### Article 1:

The Scope of academic exchange covered by this memorandum includes

1. Exchange of Technical Know-how
2. To Arrange trainings
3. To undertake projects
4. To arrange meeting, conferences and workshops
5. This all facilities should be extend to students, farmers, society and the industries

#### Article 2:

Both Parties will make concentrate proposals for the implementation of these exchange and work towards their realization in close contact with each other.

#### Article 3:

This memorandum may be altered by mutual written consent of both parties by the request of Jaysingpur College, Jaysingpur or S.K.Foods. Any Alteration shall become effective at the time that both parties indicate their consent in writing

#### Article 4:

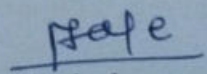
The Present memorandum shall be effective for a period of three years from the date it is signed by both parties. Its period of validity may be extended by mutual consent in writing. The termination of its Memorandum shall not affect the implementation of the programs undertaking/established under it, prior to such termination.

#### Article 5:

Financial terms for the specific projects shall be decided with mutual agreement between Jaysingpur College, Jaysingpur and S.K.Foods, Jaysingpur.

  
Shri. U.K. Kharade  
Managing Director  
S.K.Foods & Consultancy  
**S. K. FOOD'S**



  
Principal,  
Jaysingpur Collage,  
Jaysingpur  
**PRINCIPAL**  
Jaysingpur College, Jaysingpur

# ACADEMIC MOU/LINKAGE BETWEEN THE INSTITUTIONS



Jaysingpur College, Jaysingpur-416101, Ta-Shirol,  
Dist-Kolhapur



and

Devchand College, Arjunnagar-591237 (Nipani),  
Dist-Kolhapur

The Jaysingpur College, Jaysingpur and Devchand College, Arjunnagar wish to sign an MoU between the institutions on 27<sup>th</sup> July 2018 at 11.00 am. Both the parties have agreed up on cooperation and exchange in the following fields:

1. To exchange expert faculty
2. To exchange the students of UG and PG
3. To exchange and promote research activities
4. To share laboratory and library facilities
5. To organise joint workshops, seminars, conferences etc.
6. To organise the training programs

## Article 1:

Hereby it is declared that, **Principal**, Jaysingpur College, Jaysingpur and **Principal**, Devchand College, Arjunnagar shall look after the knowledge exchange programmes and promote academic and research activities between the institutions so as to exchange the quality of Institutions.

## Article 2:

During the linkages if any intellectual property emerges then, both the institutions shall have equal rights over such intellectual property.

**Article 3:**

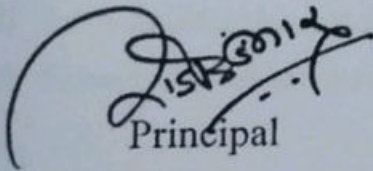
If necessary, both the institutions will enter into new and separate agreement in respect of the property.

**Article 4:**

The aforesaid MoU shall be of Five years duration and is from February, 2019 to February 2023 while it can be renewed according to regulations and binding the institutions as long as there exists a spirit of co-operation.

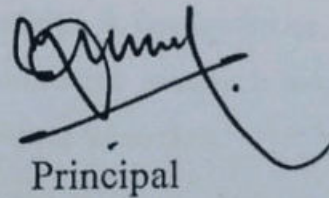
Place: Devchand College

Date: 27<sup>th</sup> July 2018



Principal

Jaysingpur College, Jaysingpur  
PRINCIPAL  
Jaysingpur College, Jaysingpur



Principal

Devchand College, Arjunnagar  
PRINCIPAL  
DEVCHAND COLLEGE  
Arjunnagar, Dist. Kolhapur





# Amruta Printers

Multicolor Offset Printers

Off. Ph. (02322) 227070  
Mob. 9028403542, 9890541839  
e-mail : amrutaprinters96@gmail.com

D.T.P.

Offset Printing

Binding

Near College Bus Stop, A. R. Patil Sir Complex, Shahunagar, Nandani Road, JAYSINGPUR. - 416 101.

Ref. No.

Date : 21/08/2020

## MEMORANDUM OF UNDERSTANDING (MoU) (For UGC Course: M.Voc. In Printing and Publishing)

Preamble :- The UGC, New Delhi of Ministry of HRD, GOI, New Delhi has launched Skills Development Programme in Higher Education in India. Since 2013-14 the UGC has introduced several schemes under the skill development programme to be introduced in universities and colleges in India. Presently the UGC has launched the Scheme of Community College (2013), the scheme of B.Voc. (Bachelor of Vocation) (2014) and scheme of Pandit Din DayalUpadhyay KAUSHAL (2015), Pursuant to the introduction of the above mentioned schemes Jaysingpur College of Arts, Commerce & Science, run by Anekant Education Society, Baramati has submitted various proposals under the above mentioned schemes of UGC for Skill development. As per the information provided with by the Jaysingpur College, one of such courses, proposed to be introduced/ being introduced is B.Voc. in Printing and Publishing. As per the built-in-scheme of the UGC, the entire course must focus mainly on 'On the Job Training'.

Pursuant to these requirements, Jaysingpur College approached to various related establishments to be associated with/as industry partners' for providing necessary assistance, guidance, counseling, 'On the Job Training' continuous evaluation, certification and finally placements of the students who complete the course successful. We the undersigned are dealing in/having establishment providing services in the related areas of Printing and Publishing, etc.. Pursuant to the invitation of Jaysingpur College, Jaysingpur we have the pleasure to be associated with and work as the industry partner (as per the description given in the UGC Regulations) provided in the guidelines) and therefore voluntarily & enthusiastically enter into a Memorandum of Understanding as per following details/ Provisions.

- 1) That the industry partner will participate in Curriculum Design of the above mentioned course.
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- 9) That the industry partner shall provide necessary assistance, guidance counseling to the students, completing the course for self employment.
- 10) Now this MOU is hereby executed duly signed by both parties under their seal & signature on Day of the Month August in the year 2020

For AMRUTA PRINTERS

Ka. d. m. p.  
Proprietor

सर्व प्रकारच्या उत्कृष्ट व  
दनेदार प्रिंटिंग व बायवॉकसाठी

मो. ९९६०९२७५२६

## सिद्धिविनायक ऑफसेट

छ. शाहू को-ऑप. इंड. इस्टेट, प्लॉट नं. २,  
यशवी पॉलीमर्स समोर, आगरभाग, शिरोड, जि. कोल्हापूर

जावक क्र.

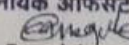
दिनांक : 21/08/2020

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सिद्धिविनायक ऑफसेट  
  
Proprietor  
प्रोप्रायटर





## SONHIRA PRINTERS

All types of Printing

Plot No. 17 to 21, Chatrapati Shahu Co-op, Industrial Estate,  
Agar Bhag, Shirol - 416 120, Tal. Shirol, Dist. Kolhapur (M.S.)  
Cell : 9765465010, 9175041234 E-mail : sonhiraprinters@gamil.com

Ref. No. :

Date 28 JUN 2018

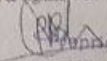
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- 10) Now this MOU is hereby executed duly signed by both parties under their seal & signature on Day of the Month June in the year 2018.

For SONHIRA PRINTERS

  
Proprietor



DESIGN

12th Lane, Near Dr. Deshpande Clinic, JAYSINGPUR, 416 101

DHARMABAI B. BAGWADE  
MOB. 8149102422

SCREEN PRINTING    OFFSET PRINTING    FOAM LETTERS    DIGITAL PRINTING

MEMORANDUM OF UNDERSTANDING (MOU)

(For UGC Course: M.Voc. in Printing and Publishing)

Date: 21/08/2020

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Proprietor

For D Art Design

Proprietor

28 JUN 2018

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1244, Birdi Building, Near Federal Bank,  
Séngli, Kolhapur Road, **JAYSINGPUR**,  
Dist. Kolhapur-416101, Ph. 02322 224570,  
Mo. 9273370970, 9326166000, 9527306555,  
email: printouchgraphics@gmail.com,  
edtail: shikismagdum@rediffmail.com

For Printouch Graphics  
Proprietor

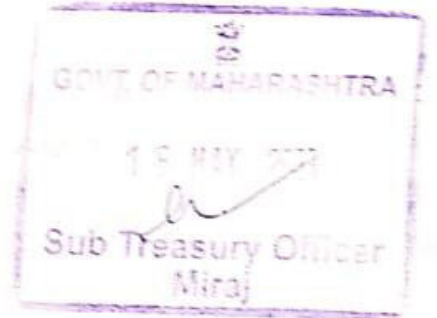
*(Signature)*  
Proprietor



महाराष्ट्र MAHARASHTRA

2022

31AA 430114



## Memorandum of Understanding (MoU)

Between

- 1) Principal,  
Jaysingpur College, Jaysingpur, Affiliated to Shivaji University, Kolhapur  
Tal-Shirol, Dist-Kolhapur. PIN-416101, through Dr. P. P. Chikode, Department of  
Physics, Jaysingpur College, Jaysingpur (Party - I)

AND

- 2) Principal,  
Willingdon college, Sangli, Affiliated to Shivaji University, Kolhapur. Dist-Sangli.  
PIN-416415, through Mr. B. N. Kamble, Head, Department of Physics, Willingdon  
College, Sangli (Party - II)

Sign the following MoU on date 18/05/2023 up to 5 years



सामंती

MAHARASHTRA २०२०

XR 401989



20 JAN 2021

SUB - TREASURY OFFICER SHIROLI

दस्तावेज प्रकार/अनुबन्ध क्रमांक  
दस्त नोंदणी करणार आहेत का? होय/नाही  
नोंदणी होणार असल्यास दुय्यम निबंधक कार्यालयाचे नांव :-  
मुद्रांक विक्रेत्याचे नांव :- सौ. विद्या सुकुमार कन्याप्पा, रा. जयसिंगपूर  
मोड नं. २६१२०२५, प.क. २७/१९१७, ठिकाण-प्लॉट नं. ३३ रावेंत ही. सोसा. जयसिंगपूर  
मुद्रांक विक्री अ.क्र. :- ११२८६ दिनांक :- ११/२४/२०२१  
मुद्रांक शुल्क किंमत रुपये :- १००/-  
मुद्रांक विकत घेणाऱ्याचे नांव :- प्राचार्य जयसिंगपूर कॉलेज, जयसिंगपूर  
दुसऱ्या पक्षकाराचे नांव :- पद्मटेक इंडस्ट्रीज, जयसिंगपूर  
हस्ते असल्यास त्याचे नांव व पत्ता : सजय सा. चावरे  
विक्रयकर्त्याचे वर्णन

V. S. Suryawar

मुद्रांक विक्रेत्याची सही मुद्रांक विक्री घेणाऱ्याची सही

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे.

बोवडला राखण सपदे ~



GENERAL AGREEMENT FOR  
ACADEMIC COOPERATION  
(MOU)  
BETWEEN  
JAYSINGPUR COLLEGE, JAYSINGPUR  
AND  
PADMATECH GROUP OF INDUSTRIES,  
JAYSINGPUR



# Memorandum of Understanding (MOU)

Between

- 1) **Principal,**  
**Jaysingpur College, Jaysingpur,** Affiliated to Shivaji University, Kolhapur  
Tal-Shirol, Dist-Kolhapur. PIN-416101  
Wishes to sign MOU with,
- 2) **The Chairman**  
Padmatech Group of Industries,  
Jaysingpur

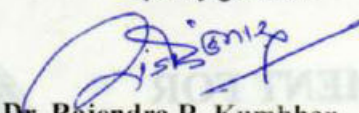
This is a General Agreement for establishment of collaborative academic effort between Jaysingpur College, Jaysingpur and Padmatech Group of Industries, Jaysingpur. Hence forth Jaysingpur College, Jaysingpur called as party 'A', Padmatech Group of Industries, Jaysingpur party 'B'

(1) It is hereby agreed that these two institutions shall cooperate on the activities :

- (a) Facility of Training program for the students.
- (b) To organize joint entrepreneurship program for students.
- (c) To organize the campus interview for the students.

(2) Implementation :

- (a) In order to carry out the above-mentioned activities, detailed plans for the academic cooperation, strategies for the interaction, between the two institutions and expressed in academic agreements.
- (b) The budding graduates from the institution could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and employability.
- (c) The industrial training and exposure provided to students through this association will build confidence and prepare the students to have a smooth transition from academic to working career.
- (d) Both the parties shall agree to seek financial support for the mutually agreed cooperative activities defined in the MOU.
- (e) This Agreement will be effective for five (5) years after the date of signing. This Agreement is renewed automatically as long as neither party gives notice of termination to the other.
- (f) The party 'B' has agreed to support the research projects of the students on quality grounds.

  
**Dr. Rajendra R. Kumbhar**  
Principal  
Jaysingpur College, Jaysingpur

**Mr. Bharat Mangave**  
Chairman  
Padmatech Group of Industries,  
Jaysingpur

Witness :- (1) Mr. Suraj S. Girmal

(2) Mr.



**Chetan Patil**    **Vrushabh Shedbale**  
 9545489655        9158362555  
 e-mail : mechtech555@gmail.com

All types of machining CNC, VMC, Conventional

Ref. No.

Date :

**MEMORANDUM OF UNDERSTANDING (MoU)**  
**(For UGC Course: M.Voc. in Automobile)**

**Preamble :-** The UGC, New Delhi of Ministry of HRD, GOI, New Delhi has launched Skills Development Programme in Higher Education in India. Since 2013-14 the UGC has introduced several schemes under the skill development programme to be introduced in universities and colleges in India. Presently the UGC has launched the Scheme of Community College (2013), the scheme of B.Voc. (Bachelor of Vocation) (2014) and scheme of Pandit Din Dayal Upadhyay KAUSHAL (2015), Pursuant to the introduction of the above mentioned schemes Jaysingpur College of Arts, Commerce & Science, run by Anekant Education Society, Baramati has submitted various proposals under the above mentioned schemes of UGC for Skill development. As per the information provided with by the Jaysingpur College, one of such courses, proposed to be introduced/being introduced is B.Voc. in Automobile. As per the built-in-scheme of the UGC, the entire course must focus mainly on 'On the Job Training'.

Pursuant to these requirements, Jaysingpur College approached to various related establishments to be associated with/as industry partners' for providing necessary assistance, guidance, counseling, 'On the Job Training' continuous evaluation, certification and finally placements of the students who complete the course successful. We the undersigned are dealing in/having establishment providing services in the related areas of Automobile, etc.. Pursuant to the invitation of Jaysingpur College, Jaysingpur we have the pleasure to be associated with and work as the industry partner (as per the description given in the UGC Regulations) provided in the guidelines) and therefore voluntarily & enthusiastically enter into a Memorandum of Understanding as per following details/ Provisions.

- 1) That the industry partner will participate in Curriculum Design of the above mentioned course.
- 2) The industry partner will provide necessary assistance, guidance and counseling, in running the above mentioned course meaningfully and effectively.
- 3) The industry partner shall provide necessary times lot, avenues for the 'On the Job Training' of for the students of the above mentioned course.
- 4) That the industry partner shall provide the avenues for internship for the students of the above mentioned course.
- 5) That the industry partner shall as per the time table/programme of the college, evaluate the performance of the students of the above mentioned course.
- 6) That the industry partner shall, as per the time table/course programme, shall provide expertise and faculty for teaching, training and evaluation of the students of the above mentioned course.
- 7) That the industry partners shall make an endeavour to provide necessary up-dates, recent changes, developments in the field and shall also provide the necessary literature, brochures, various reports (made publically available) to the College for continuous updating the curriculum design.
- 8) That the industry partner shall actively participate in the placements of the students who complete the course and if possible shall also provide jobs in the establishments having regard to the suitability of the candidate.
- 9) That the industry partner shall provide necessary assistance, guidance counseling to the students, completing the course for self employment.

Now this MOU is hereby executed duly signed by both parties under their seal & signature on Day of the Month June in the year 2018.

**FOR MECHTECH**  
  
**PROPRIETOR**

Plot no. 7, Ch. shahu Ind. estate Agar Bhag, Shirol. Dist. Kolhapur (Jaysingpur) 416 101



## MAHAVEER AUTOMOBILES

6<sup>TH</sup> LANE OPP. STATE BANK, JAYSINGPUR  
TEL.: (02322) 225954 CELL: 9823232356

### MEMORANDUM OF UNDERSTANDING (MoU) (For UGC Course: M.Voc. in Automobile)

**Preamble :-** The UGC, New Delhi of Ministry of HRD, GOI, New Delhi has launched Skills Development Programme in Higher Education in India. Since 2013-14 the UGC has introduced several schemes under the skill development programme to be introduced in universities and colleges in India. Presently the UGC has launched the Scheme of Community College (2013), the scheme of B.Voc. (Bachelor of Vocation) (2014) and scheme of Pandit Din Dayal Upadhyay KAUSHAL (2015), Pursuant to the introduction of the above mentioned schemes Jaysingpur College of Arts, Commerce & Science, run by Anekant Education Society, Baramati has submitted various proposals under the above mentioned schemes of UGC for Skill development. As per the information provided with by the Jaysingpur College, one of such courses, proposed to be introduced/being introduced is B.Voc. in Automobile. As per the built-in-scheme of the UGC, the entire course must focus mainly on 'On the Job Training'.

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- 9) That the industry partner shall provide necessary assistance, guidance counseling to the students, completing the course for self employment.

Now this MOU is hereby executed duly signed by both parties under their seal & signature on Day of the Month June in the year 2018.





## SAMRUDDHI ENGINEERING

MANUFACTURERS & DEVELOPERS OF PRECISION  
AUTOMOBILE & INDUSTRIES COMPONENTS

### MEMORANDUM OF UNDERSTANDING (MoU) (For UGC Course: M.Voc. in Automobile)

**Preamble :-** The UGC, New Delhi of Ministry of HRD, GOI, New Delhi has launched Skills Development Programme in Higher Education in India. Since 2013-14 the UGC has introduced several schemes under the skill development programme to be introduced in universities and colleges in India. Presently the UGC has launched the Scheme of Community College (2013), the scheme of B.Voc. (Bachelor of Vocation) (2014) and scheme of Pandit Din DayalUpadhyay KAUSHAL (2015), Pursuant to the introduction of the above mentioned schemes Jaysingpur College of Arts, Commerce & Science, run by Anekant Education Society, Baramati has submitted various proposals under the above mentioned schemes of UGC for Skill development. As per the information provided with by the Jaysingpur College, one of such courses, proposed to be introduced/being introduced is B.Voc. inAutomobile. As per the built-in-scheme of the UGC, the entire course must focus mainly on 'On the Job Training'.

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- 9) That the industry partner shall provide necessary assistance, guidance counseling to the students, completing the course for self employment.

Now this MOU is hereby executed duly signed by both parties under their seal & signature on Day of the Month June in the year 2018.



Gat No. 1027/2, Near Swabhimani Dudh Sangh, UDGAON-JAYSINGPUR Pin: 416 134 Tal. Shirol,  
Dist. Kolhapur. Mo.: 09637781008, 09960858108 Email : mi.samruddhiengineering@gmail.com

फक्त प्रतिज्ञापनासाठी (अनुक्रम-४) Only For Affidavit

|  |                             |
|--|-----------------------------|
| प्रतिज्ञापन सादर करणाऱ्याचे नाव -<br>(For Submitting to)               | कोड -                       |
| प्रतिज्ञापनासाठीचे कारण -<br>(Reason for Affidavit)                    | MOU                         |
| मुद्रांक विकत घेणाऱ्याचे नाव -<br>(Stamp Purchaser's Name)             | यशविन वसुदेवराव - चिंचोडे - |
| मुद्रांक विकत घेणाऱ्याचा पत्ता -<br>(Stamp Purchaser's Address)        | जयसिंग                      |
| मुद्रांक विक्री क्रमांक वही अनुक्रमांक / दिनांक -<br>(Serial No./Date) | १३२५ / 24 MAY 2023          |
| मुद्रांक विकत घेणाऱ्याची सही<br>(Stamp Purchaser's Sign)               | <i>[Signature]</i>          |

|  |                    |
|--|--------------------|
| परवानाधारक मुद्रांक विक्रेत्याची सही -           | <i>[Signature]</i> |
| मुद्रांक विक्रेत्याचे नाव - प्रभाकर धों. घाटगाकर |                    |
| अधिकृत परवाना क्रमांक, २४०६०५५                   |                    |
| मुद्रांक विक्रीचे ठिकाण - सल्लेखदार आवार, मिरज   |                    |

(या प्रतिज्ञापनातून मुद्रांक खरेदी करताना त्याच कारणासाठी मुद्रांक खरेदी केल्यामुळे ५ मते जावे अतः वापरणे बंधनकारक आहे.)

The multi-disciplinary and multi institutional approach is necessary in the field of teaching, learning and research to enhance the quality. For the said cause, both the parties agree to extend the cooperation in exchange of faculty and sharing of research facilities. Both the parties will allow their teachers and students to visit each other's colleges for learning and research purpose. The travelling charges will be borne by the visiting college. Both the parties will provide the laboratory facilities free of cost or with minimum charges.

This MoU will be effective from the date of signing of both the parties. ATR and review report will be shared every year so as to increase fruitfulness of the linkage.

The memorandum may be terminated by either party after mutual discussion or it can be extended to five years.

*[Signature]*  
Principal  
Jaysingpur College, Jaysingpur  
Principal  
Jaysingpur College, Jaysingpur



*[Signature]*  
Principal  
Willingdon College, Sangli  
Principal,  
Willingdon College, Sangli



Witness: - (1) Mr. B.N. Kamble *[Signature]*  
(2) Dr. P.P. Chikode *[Signature]*



Anekant Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

# CRITERION I

## CURRICULAR ASPECTS

### 1.3.2

**1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year (2022-23)**

**PROJECTS**



Anekant Education Society's  
**Jaysingpur College, Jaysingpur.**

**Department of Printing & Publications**

**A Project Report on**  
**Water Transfer Printing**

**A Project Report by**

Batch 2022-23

Bachelors Degree of Vocational in Printing & Publishing

1. Dhawal S. Nehete
2. Amit R Bodhale
3. Akash D. Kamble
4. Raghavendra. R . Chavan
5. Chaitanya S. Wadkar
6. Aishwarya Joshi
7. Pratik Awate
8. Rajendra M. Gaikwad
9. Sushant S. Naik
10. Sumit P. Alhat
11. Vipul Khairnar
12. Vikas Dalvi
13. Chandrashekhar B. Mahale
14. Balaji D. Jagtap
15. Dnyaneshwar K Sirsath
16. Gourav B. Idhate
17. Ashish D. Dighe
18. Mayur R. Kelkar
19. Akash S .Shelake

# Introduction

Water transfer printing, also known as immersion printing, water transfer imaging, hydro dipping, watermarbling, cubic printing, Hydrographics, or HydroGraphics, is a method of applying printed designs to three-dimensional surfaces. The resulting combinations may be considered decorative art or applied art. The hydrographic process can be used on metal, plastic, glass, hard woods, and various other materials.

The project investigates the principles, materials, equipment, and steps involved in water transfer printing.

Below are some of the printed specimens by Water transfer Printing`



## History

The exact origin of the water transfer printing process is unclear. However, the first hydrographic apparatus registered for a US patent was by Motoyasu Nakanishi of Cubic Engineering KK on July 26, 1982. Its abstract reads, printing apparatus provided with a structure which supplies a transcription film into a transcription tub containing a liquid so that the transcription film is kept afloat on the liquid, a structure which makes the liquid flow in a direction in which the film is supplied, and a structure which slantingly immerses an article to be printed into the liquid in the transcription tub from an upstream position to a downstream position of the liquid.

# Objectives

The main objectives of the Water Transfer Printing project are as follows:

- I. Understand the principles and working mechanism of water transfer printing.
- II. Identify the necessary materials and equipment required for water transfer printing.
- III. Investigate the pre-treatment and preparation of objects for water transfer printing.
- IV. Analyze the process of creating and applying the printed designs onto objects.
- V. Evaluate the quality and durability of the printed designs.
- VI. Explore potential applications and benefits of water transfer printing.

# Methodology

The project follows a systematic methodology to achieve the objectives outlined above:

- a) Literature Review: Conduct an in-depth review of existing literature, research papers, and online resources to understand the principles and techniques of water transfer printing.
- b) Material and Equipment Acquisition: Identify and procure the necessary materials and equipment required for water transfer printing, including base objects, hydrographic films, activator solutions, tanks, and drying stations.
- c) Pre-treatment and Preparation: Clean and prepare the objects for printing by removing any contaminants, applying primer or base coat, and ensuring the surface is ready for optimal adhesion of the print.
- d) Design Creation: Select or create suitable designs to be printed using graphic software or by scanning existing patterns. Ensure that the designs are appropriately scaled and adjusted for the size and shape of the objects.
- e) Printing Process: Set up the water transfer printing tank with the appropriate temperature, water quality, and activator solution. Dip the hydrographic film with the desired pattern onto the water's surface and activate it. Carefully transfer the print onto the prepared object using specialized techniques.



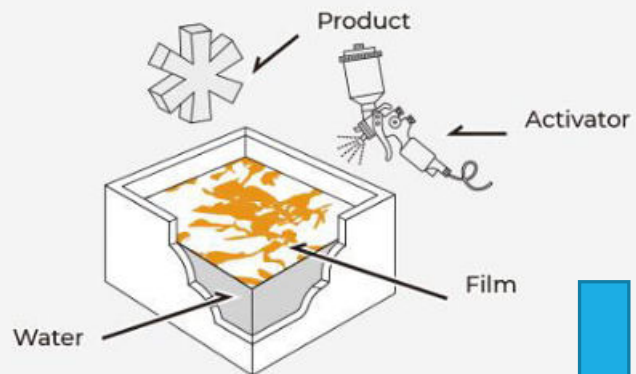
## Methodology

- f) **Quality Evaluation:** Assess the quality and durability of the printed designs by examining factors such as adhesion, color accuracy, and resistance to wear, chemicals, and environmental conditions.
- g) **Applications and Benefits:** Explore potential applications and advantages of water transfer printing in various industries, such as automotive, consumer goods, and decoration.

# Process

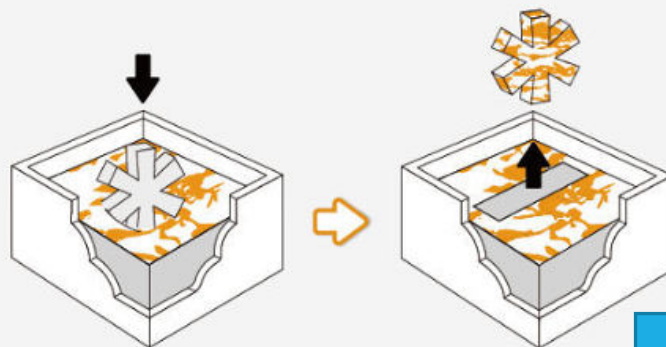
## Spray Activator

1



## Transfer Printing

2



## Water Washing

3



# Process

Drying

4



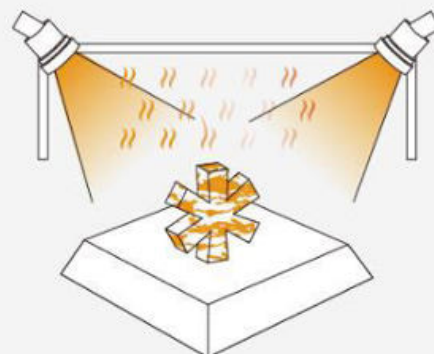
Spray Paint

5



Drying

6



# Printed Objects



## Results and Discussion

1. Understanding of the principles and working mechanism of water transfer printing.
2. List of materials and equipment required for water transfer printing.
3. Step-by-step guide on the pre-treatment and preparation process.
4. Detailed explanation of the design creation and printing process.
5. Evaluation of the quality and durability of the printed designs.
6. Identification of potential applications and benefits of water transfer printing.

## Conclusion

Summarize the key findings and conclusions of the project as below

The water transfer printing process is extensively used to decorate items that range from entire all-terrain vehicles and car dashboards, to small items like bike helmets or other automotive trim. Films can be applied to all types of substrates including plastic, fiberglass, wood, ceramics, and metal. For the most part, if the item can be dipped in water and can be painted using traditional techniques then the hydrographic printing process can be used

### Advantages

High efficiency: No need for plate making, direct drawing, fast transfer (the whole process only takes 30 minutes, suitable for proofing). Superiority: Fast proofing, curved surface printing, personalized printing, small quantity, and much non-paper and cloth printed matter.

## References

List all the references used during the project, including books, research papers, websites, and other relevant sources.

[https://en.wikipedia.org/wiki/Water\\_transfer\\_printing](https://en.wikipedia.org/wiki/Water_transfer_printing)

Cuffaro, Dan; Zaksenberg, Isaac (2013). The Industrial Design Reference & Specification Book. Rockport Publishers. p. 50. ISBN 9781592538478.

"The Origin of Hydro-Dipping". Dip Junkies. Retrieved 2015-03-01.



A

## Project Report On

“Design And Fabrication Of Three Wheel Electric Vehicle” For the

partial fulfillment of requirement of the award

**BACHELOR OF VOCATIONAL IN AUTOMOBILE**

BY-

B.VOC AUTOMOBILE LAST YEAR BATCH

**2022-2023**

Under the Guidance of

**Mr. Suraj Girmal**

Head of Department

**Mr. Milind Patil, Mr. Abhijeet Patil**

Through

**THE PRINCIPAL**

**Jaysingpur College, Jaysingpur**

**2022-23**



## CERTIFICATE

---

This is to certify that the project report entitled "Design And Fabrication Of Three Wheel Electric Vehicle" submitted by students. In partial fulfilment of the award of Bachelor of Vocation course, submitted to Shivaji University, Kolhapur for the year 2022 – 23 and this is genuine and bonafide work prepared under my supervision and guidance.

To the best of my knowledge and belief the matter represented in this report has not been submitted earlier to any university for similar purpose.

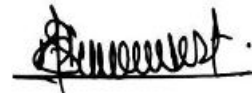
Place:-Jaysingpur



**Mr. S. S. Girmal**  
ProjectGuide



**Mr. S. S. Girmal**  
Co-Ordinator



**Dr. N. P. Sawant**  
Principal

## Acknowledgement

It is our great pleasure the honour and sincere gratitude our guide B.Voc(Automobile) Staff, Jaysingpur college Jaysingpur helped in joining the hands in developing each and every step of this project for valuable guidance and constant encouragement during completion of project work. It was our pleasure privilege and pleasure to work under this valuable guidance. We are indeed gratefully to him for providing us helpful suggestions. Due to this constant encouragement and inspirations we could complete our project work.

We are very thankful to principal our grateful thanks to co-ordinate Mr. S. S. Girmal. We express thanks to our family and friends for their support and encouragement at every stage of successful completion of this project work. Our sincere thanks to all those who have directly or indirectly to carry out this project work.

| Sr.No. | Name of Candidate |
|--------|-------------------|
| 1      | Sanket patil      |
| 2      | Rajat patil       |
| 3      | Sandesh nikam     |
| 4      | Suraj vaghmode    |
| 5      | Vishal naik       |
| 6      | Rahul Savant      |
| 7      | Manthan raut      |
| 8      | Sandip pandav     |
| 9      | Abhijit badgi     |

## Declaration

We under designed hereby declare that the project entitled “Design And Fabrication Of Three Wheel Electric Vehicle” is original work prepared by us under the guidance of B.Voc (Automobile) staff.

The empirical finding in this report is based on data collected by us. The matter presented in this report is not copied from any other source.

This work is humbly dedicated to Shivaji University during year 2021-2022 as under the subject of “**Mega Project**” for the award of degree Bachelor of Engineering.

| Sr.No. | Name of Candidate |
|--------|-------------------|
| 1      | Sanket patil      |
| 2      | Rajat patil       |
| 3      | Sandesh nikam     |
| 4      | Suraj vaghmode    |
| 5      | Vishal naik       |
| 6      | Rahul savant      |
| 7      | Manthan raut      |
| 8      | Sandip pandav     |
| 9      | Abhijit badgi     |

## **Introduction**

Technology has made a drastic change in the medical field but there are still some people facing some problems. This wheelchair is fully automated and created specially for patients and elderly people. This is not only a smart wheelchair but also a deception wheelchair controlled by Uno controller with the support of some special equipments and system. This is created to solve some ridiculous problems such as physically disabled people face problems in moving and energy of patients are wasted in operating a manual wheelchair. Besides that, the helper becomes tired by pushing the wheelchair with patient. Moreover, patients easily get injured while shifting from wheelchair to bed. So the objective of this invention is solving the problem of three main people in one shot. They are the patients or disabled people, elderly people and also the helper. The basic methodology of this invention is one DC motor is fixed in the wheel to control the movement of the chair such as forward, backward and also sides movement.

## **How Does an Electric Wheelchair Work?**

The basic idea is that the motor connects to the wheels, those motors are controlled with an electronic controller and it's all powered by a set of batteries.

To get more specific, a power chair is built from the power base. A power base is made up of the drive wheels, which may be positioned in the front, middle or back of a base — depending on the model. Where the drive wheel is located determines whether it's a front-wheel-drive or rear-wheel-drive electric wheelchair. All Hoveround power chairs are built with front-wheel drive to provide better maneuverability. The power base also consists of the batteries, motors and brakes, which are then covered in the plastic shrouding that users see on the outside.

Attached next is the seating system, which can vary depending on the brand, model, style and personal preferences. Since a power chair is designed for mobility-restricted individuals, comfort is of utmost importance. Contoured seating with customized adjustability, potential reclining capabilities and correct weight support should all be considered to find the perfect fit for daily functionality.

Next to be attached are the electronics, such as the motorized wheelchair electronic controller, or joystick. This allows for maximum maneuverability, even around tight spaces, without extensive physical exertion and also enables improved independence.

Each electric wheelchair is unique with its own parts, but understanding the basics can directly benefit mobility-restricted individuals and caregivers. A deeper familiarity with some of the basic parts that make an electric wheelchair work can erase much of the mystery surrounding this life-changing assistive device

# Relevance

## 1. SUITABLE FOR ALL

Mobility Plus Electric Powered Wheelchair

No matter your weight or height, wheelchair is suit for physically disabled person or elder persons.

The power chairs we offer are adaptable to the severity of any disability, with a simple-to-use joystick for comfortable control movement.

For users who may not have the upper body strength to push manual wheels, an electric wheelchair means they are not limited to taking short trips out.

## 2. MAKE MORE PLACES ACCESSIBLE

Electric wheelchairs can be used indoors or outdoors, providing constant support for people who need them throughout the day.

Powered chairs also offer a tight turning radius which means they are ideal for negotiating smaller spaces.

3. You also have freedom to reach heights you may never have thought possible in a manual chair. Steep inclines are instantly easier to access and the same goes for tricky terrain, which may deter users from taking a certain path

## 4. A SAFE OPTION

As the centre of gravity is much lower with an electric wheelchair, this means it is far less likely to tip over than a manual chair. Accidental rolling is avoided as braking and movement on rough terrain is far easier.

## 5. INCREASES CONFIDENCE

With no tricky controls, the wheelchairs we make easily operated with a simple electronic controller.

Our powerchairs require only the lightest touch to be operated and can be easily adjusted to ensure the user is extremely comfortable for their duration in the seat.

And there's no need to worry about getting stranded whilst out and about, as our powered wheelchair can reach maximum speeds of 10mph and travel up to 5 miles on a fully charged battery.

## Material Requirements

The Powered wheelchair consists of following components viz, DC motor, Frame, Platform, Battery, Drive etc. (Barve, Design and Development of Solar Hybrid Bicycle, 2016)

**1. Dc motor:** The motor is having 250 watt. Capacity with maximum 2100 rpm.

Its specifications are as follows:

Current Rating: 7.5

amp Voltage Rating: 24V

### 2. Battery:

1. In this Wheelchair used Battery is 24 V
2. The battery also acts as a condenser in a way that it stores the electric energy produced by the generator due to electrochemical transformation and supply it on demand. Battery also known as accumulator of electric charge. This happens usually when starting the System.

### 3. Controller:

The speed controller of an electric bike is an electronic circuit that not only controls the speed of an electric motor but also serves as a dynamic brake. This controller unit uses power from the battery box and drives it to the motor. Different forms of controllers are used for brushed and brushless motors. For adaptive e-bikes, a conversion kit is used and the controller is the core component of that kit.



#### **4. Throttle:**

The throttle mode is similar to how motorcycle operates. When the throttle is engaged the motor provides power and propels you and the wheelchair Revers and forward. The motor can be increased and decreased by the restriction of current (by use of throttle), but usually decreased. The term throttle has come to refer informly to any mechanism by which the power and speed of a engine and motor is regulated.



## Chapter3

### Fabrication



## Chapter5 MaterialCost

| Material              | Cost            |
|-----------------------|-----------------|
| E-bikekit             | 3500            |
| Wheel (rear)          | 1000            |
| Battery               | 3500            |
| Steeringmechanism     | 700             |
| Weldingrods           | 300             |
| Color,coching,rediam. | 1000            |
| <b>Total</b>          | <b>10,000/-</b> |



## Conclusion

- This project involves the design of an ergonomically designed electric wheelchair for domestic use by Indian old aged people/disabled persons. Fully auto need functionality was the main focus in its structure and mechanism. The product covered 3 modules viz. seat, links and frame. Seat dimensions were calculated following the Indian Anthropometric standards. The frame and wheels are designed and developed through the based upon from the statistical data of dimensions of tiles in Indian houses. Form, functionality, technology and architecture of the product are also evaluated. Digital Mockups of individual parts were developed and assembled to form the final product. The stair climbing mechanism is simulated in virtual environment. The physical and focused prototype indicating the structure and functionality is developed using plastic and steel material. Wheelchair is embedded with some additional features like revers mechanism, after gathering disabled person/elder person requirements from different subjects.






Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Affiliated to Shivaji University, Kolhapur || Reaccredited by  
NAAC with 'A' Grade || DST-FIST [Level I] Sponsored College  
Minority College

## Department of Mathematics

### B.Sc.-III Project List – 2022-23

| Sr. No. | Roll No. | Name of the Students     | Name of Project                                    |
|---------|----------|--------------------------|--|
| 1       | 46       | Ubale Ganesh Balasaheb   | Golden ratio                                       |
| 2       | 64       | *Patil Komal Dilip       | The Fibonacci numbers and its amazing applications |
| 3       | 65       | *Chavan Divya Nivas      | Pigeonhole Principle                               |
| 4       | 66       | *Koli Pooja Deepak       | CPM And PERT                                       |
| 5       | 67       | *Rajmane Triveni Pravin  | Application of Mathematical software               |
| 6       | 68       | *Chougule Snehal Sunil   | CPM And PERT                                       |
| 7       | 69       | *Shikalgar Namira Mansur | Trigonometry in astrology                          |
| 8       | 70       | *Khade Divya Dadaso      | The Fibonacci numbers and its amazing applications |
| 9       | 71       | Mullani Samina Ashmuddin | Pigeonhole Principle                               |
| 10      | 72       | *Kamble Pallavi Mahan    | Maths in everyday life                             |
| 11      | 73       | *Momin Sajida Riyaz      | CPM And PERT                                       |
| 12      | 74       | *Kulkarni Divya Abhijit  | Trigonometry in astrology                          |
| 13      | 75       | *Powar Supriya Ananda    | Importance of Hexagon                              |
| 14      | 76       | *Shinde Pratiksha Pramod | Importance of Hexagon                              |
| 15      | 77       | *Zanje Rohini Dattatray  | Importance of Hexagon                              |
| 16      | 78       | *Thomake Swati Annaso    | Pigeonhole Principle                               |
| 17      | 80       | Patil Sanket Vitthal     | Golden ratio                                       |
| 18      | 116      | Kamble Rushikesh Sundar  | Golden ratio                                       |



  
Head  
Department of Mathematics (Sr.)



## CERTIFICATE

This is to certify that the project report Entitled

**“Pigeonhole Principle”**


Submitted by

- Miss. Divya Nivas Chavan
- Miss. Samina Ashmuddin Mullani
- Miss. Swati Annaso Thomake



Is a bonafide work carried out by them under the supervision of Dr. Jayvant Patade and it is submitted towards the partial fulfillment of the requirement of Jaysingpur college jaysingpur, in partial fulfillment of Degree for the award of Bachelor of Science in Mathematics.

Date : 10/05/2023  
Place : Jaysingpur



  
**Dr. Jayvant Patade**  
(Project Guide)

(Head Of Department)  
**Head**  
Department of Mathematics (Sr.)

1.  16/05/23
2.  16.5.2023



## CERTIFICATE

P-

This is to certify that the project report Entitled  
**"Importance of Hexagone"**

Submitted by

- Miss. Pratiksha Pramod Shinde
- Miss. Rohini Dattatray Zanie
- Miss. Supriya Ananda Powar

Is a bonafide work carried out by them under the supervision of Mr. P. R. Patil and it is submitted towards the partial fulfillment of the requirement of Jaysingpur college jaysingpur, in partial fulfillment of Degree for the award of Bachelor of Science in Mathematics.

Date: 08/05/23

Place: Jaysingpur

Mr. P. R. Patil  
(Project Guide)

1- g/l 16/5/23



Head  
Department of Mathematics (Sr.)

Scanned by PDF Scanner



## CERTIFICATE

This is to certify that the project report

Entitled

“TRIGONOMETRY IN ASTROLOGY “

Submitted by

Miss. Divya Abhijeet Kulkarni

Is a bonafide work carried out by them under the supervision of Dr. Jayvant Patade and it is submitted towards the partial fulfilment of the requirement of Jaysingpur, in partial fulfilment of Degree for the award of Bachelor of science in Mathematics



*Rohit f*  
Dr. Jayvant Patade  
(Project Guide)  
(Head of department)

*[Signature]*  
Head  
Department of Mathematics (Sr.)

Place : Jaysingpur

1. *[Signature]* 16/05/23

Date : 13/05/23

2. *[Signature]* 16.5.23



## CERTIFICATE

This is to certify that the project report

Entitled

**“GOLDEN RATIO”**

SUBMITTED by

**UBALE GANESH BALASAHEB**

**PATIL SANKET VITTHAL**

**KAMBLE RUSHIKESH SUNDAR**


is a bonafide work carried out by them under the supervision of

**Dr. Jayvant Patade** and it is submitted towards the partial fulfilment of the

requirement of Jaysingpur Jaysingpur, in partial fulfilment of Degree

for the award of Bachelor of Science in

Mathematics.

  
**Dr. Jayvant Patade**

**(Project Guide)**

**(Head of Department)**

**Head**

**Department of Mathematics (Sr.)**



1. 16/5/23

2. 16/5/23





## CERTIFICATE

This is to certify that the project report

Entitled

“ The Fibonacci Numbers and It's  
Amazing Application”

Submitted by,

**DIVYA DADASO KHADE**

**KOMAL DILIP PATIL**

Is a bonafide work carried out by them under the supervision of Dr. Jayvant Patade and it is submitted towards the partial fulfillment of the requirement of Jaysingpur college Jaysingpur, in partial fulfillment of the degree forth award of Bachelor of science in mathematics.

**Dr. Jayvant Patade**

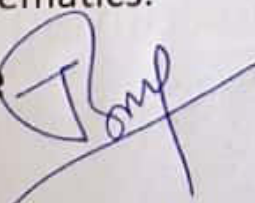
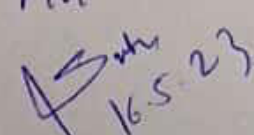
(Project Guide)

(Head of Department)

**Place: Jaysingpur**



**Date: 14/05/2023**

1.  16/05/23
2.  16.5.23



## CERTIFICATE

Project on

This is to certify that the project report Entitled

**"CPM And PERT"**

Submitted by

- Miss. Snehal Sunil Chougule
- Miss. Sajida Riyaj Momin
- Miss. Pojja Deepak Koli

Is a bonafide work carried out by them under the supervision of Mr. P. R. Patil and it is submitted towards the partial fulfillment of the requirement of Jaysingpur college jaysingpur, in partial fulfillment of Degree for the award of Bachelor of Science in Mathematics.

Date:

Place: Jaysingpur



*Patil*

Mr. P. R. Patil

(Project Guide)

1. *[Signature]* 16/05/23  
2. *[Signature]* 16-5-23

*[Signature]*  
Head  
Department of Mathematics (Sr.)



## CERTIFICATE

This is to certify that the project report Entitled

**“Pigeonhole Principle”**

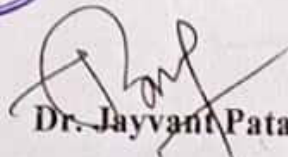
Submitted by

- Miss. Divya Nivas Chavan
- Miss. Samina Ashmuddin Mullani
- Miss. Swati Annaso Thomake

Is a bonafide work carried out by them under the supervision of Dr. Jayvant Patade and it is submitted towards the partial fulfillment of the requirement of Jaysingpur college jaysingpur, in partial fulfillment of Degree for the award of Bachelor of Science in Mathematics.

Date : 10/05/2023  
Place : Jaysingpur



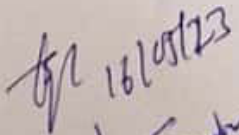
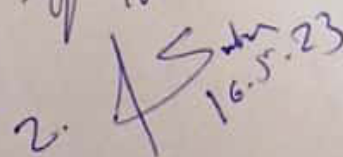
  
Dr. Jayvant Patade

(Project Guide)

(Head Of Department)

Head

Department of Mathematics (Sr.)

1.  16/05/23  
2.  16.5.23



## CERTIFICATE

This is to certify that the project report

Entitled

“TRIGONOMETRY IN ASTROLOGY “

Submitted by

Miss. Divya Abhijeet Kulkarni

Is a bonafide work carried out by them under the supervision of Dr. Jayvant Patade and it is submitted towards the partial fulfilment of the requirement of Jaysingpur, in partial fulfilment of Degree for the award of Bachelor of science in Mathematics



*Rohit f*  
Dr. Jayvant Patade  
(Project Guide)  
(Head of department )  
**Head**  
Department of Mathematics (Sr.)

1. *16/05/23*  
2. *16.5.23*

Place : Jaysingpur

Date :

Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
**Department of Zoology**  
**Projects Completed by students**

Department of Zoology allots research projects to the B. Sc. III students. Following projects have been completed by students during academic year 2022-23

| S. No. | Name of Students           | Project Titles  |
|--------|----------------------------|---|
| 01     | Shweta Raghunath Kale      | Effect of Flonicamid pesticide on Chick embryo  |
| 02     | Sneha Sunil Kamble         |   |
| 03     | Yogita Prakash Sutar       |   |
| 04     | Abhijeet Ashok Basavane    |   |
| 05     | Prajwal Narayan Kaware     | Epidemiological survey of Lumphi Virus from Shirol tahsil, Kolhapur District Maharashtra                                      |
| 06     | Chitra Shivaji Magade      |   |
| 07     | Shain Shekhsab Jamadar     |   |
| 08     | Sakshi Dhumal              |   |
| 09     | Tasnim M.Umer Momin        | Formulation of herbal anti-dandruff shampoo using Sarp Gandha and Nagkeshar   |
| 10     | Masumnurani Salar Sayyed   |   |
| 11     | Samruddhi Ravindra Upadhye |   |
| 12     | Sarika Sateri Tirvir       |   |
| 13     | Shrutika Sachin Ulagadde   | Analysis of physico-chemical parameters of Krishna river from various villages of Sangli and Kolhapur district of Maharashtra |
| 14     | Sakshi Ashok Shinde        |   |
| 15     | Anuja Suresh Patil         |   |
| 16     | Chandani Sanjay Chavan     |   |



*[Signature]*  
Head  
Department of Zoology

**PROJECT REPORT**  
**ON**  
**“Formulation of herbal Antidandruff shampoo by using**  
**Sarphgandha and Nagkeshar”**

SUBMITTED TO

Department of  
Zoology Jaysingpur  
College, Jaysingpur.

For the fulfillment of  
Bachelor’s Degree in Science

**BY**

**Miss. Masumnoorani Sayyad**

**Miss. Samruddhi upadhye**

**Miss. Tasnim Momin**

**Miss. Sarika Tirvir**

**UNDER THE GUIDANCE OF**

**Miss. Sadiya. Patel**

Assistant Professor

Department of

Zoology,

Jaysingpur College Jaysingpur.

**2022-2023**

# **PROJECT REPORT**

**ON**

## **“ANALYSIS OF PHYSICO-CHEMICAL PARAMETERS OF KRISHANA RIVER”**

**SUBMITTED TO**

**DEPARTMENT OF ZOOLOGY  
JAYSINGPUR COLLAGE JAYSINGPUR**

For the fulfillment of

Bachelor's Degree in Science

**BY**

**Shrutika S. Ulagadde**

**Sakshi A. Shinde**

**Chandni S. Chavan.**

**Anuja S. Patil.**

**UNDER THE GUIDANCE OF**

**Miss. Sadiya T. Patel**

**Assistant professor**

**Department of zoology**

**Jaysingpur collage Jaysingpur**

**2022-23**

PROJECT REPORT ON

❖ ***EFFECT OF FLONICAMID [ULALA] PESTICIDE  
ON CHICK EMBRYO.***

SUBMITTED TO

Department of Zoology  
Jaysingpur College Jaysingpur

For the fulfillment of  
Bachelor's Degree in Science

BY

Miss-YOGITA PRAKASH SUTAR  
Miss- SNEHA SUNIL KAMBLE  
Miss-SHWETA RAGHUNATH KALE  
Mr-ABHIJEET ASHOK BASVANE

UNDER THE GUIDANCE OF

Miss-A.B.DHANDALE  
[Project-in-charge]  
Department of Zoology  
Jaysingpur College Jaysingpur



Epidemiological  
Survey on Lumpy  
Skin Disease of  
Shirol Taluka  
PROJECT REPORT  
ON

***EPIDEMIOLOGICAL SURVEY ON LUMPY SKIN DISEASE OF  
SHIROL TALUKA***

SUBMITTED TO

Department of Zoology  
Jaysingpur College Jaysingpur

For the fulfillment of  
Bachelor's Degree in Science

BY

1.KAWARE PRAJWAL NARAYAN  
2.DHUMAL SAKSHI CHANDRAKANT  
3.MAGADE CHITRA SHIVAJI  
4.JAMADAR SHAIN SHEKHSAB  
UNDER THE GUIDANCE OF

Dr. Sachinkumar R. Patil  
Department of Zoology  
Jaysingpur College Jaysingpur

2022-23



## JAYSINGPUR COLLAGE JAYSINGPUR



This is certify that project report entitled,

### "MILK ANALYSIS: A VISIT TO SWABHIMANI MILK DAIRY"

SUBMITTED BY  
SHIVAJI UNIVERSITY,  
KOLHAPUR BY

Mr. Asif Dastagir Mulla

Mr. Sunny Sharad Kamble

Mr. Shubham Bhimrao kachare

I hereby certify that the matter embodied in this thesis entitled  
"MILK ANALYSIS: A VISIT TO SWABHIMANI MILK DAIRY" Has been carried  
out by at the U.G. Department of Chemistry, jaysingpur Collage, Jaysingpur. As part of  
B.sc academic educational project under my supervision and guidance for the  
fulfillment of the requirement for the award of degree of under graduate of Science in  
Chemistry.

  
Miss. H. A. CHOUGALE



  
Prof. Dr. B.M. Sargar

PROJECT GUIDE

HEAD  
DEPARTMENT OF CHEMISTRY  
Head  
Department of Chemistry  
Jaysingpur College, Jaysingpur

# Swabhimani Agro Products Producer Co. Ltd.,

**Regd. Off. :** Gat No. 1021, Kalamwadi Estate Road, UDGAON.  
Tal. Shirol, Dist. Kolhapur. Ph. (02322) 222118, 222127, 7722052391  
**E-mail :** swabhimaniagro@gmail.com  
**www.swabhimaniagro.com**



SAPPCL / /2022-23

Date : 04.03.2023

## INDUSTRIAL VISIT CERTIFICATE

This is to certify that Following Student of the JAYSINGPUR COLLAGE JAYSINGPUR Visited SWABHIMANI AGRO PRODUCTS PRODUCER CO.LTD.UDAGAON on. 04/03/2023 and collected required information for fulfillment curriculum for B.sc Chemistry.

Name of Student :- 1} Mr.Asif Dastagir Mulla  
2} Mr. Sunny Sharad Kamble  
3} Mr. Shubham Bhimrao Kachare

We wish them all the success in future and bestluck.

FOR SWABHIMANI AGRO PRODUCTS PRODUCER CO.LTD,

ADMINISTRATIVE OFFICER





JAYSINGPUR COLLEGE JAYSINGPUR



This is to certify that project report entitled,  
"PREPARATION OF CUPARAMMONIUM RAYON THREADS FROM CELLULOSE  
(FILTER PAPER AND COTTON)"

Submitted by

**Mr. Sanket Sanjay Kharade, Mr. Shridhar Arun Sutar, Mr. Sachin Virupaksh Pattekari.**

I hereby certify that the matter embodied in this thesis entitled "PREPARATION OF  
CUPARAMMONIUM RAYON THREADS FROM CELLULOSE  
(FILTER PAPER AND COTTON)"

Has been carried out by **Mr. Sanket Sanjay Kharade, Mr. Shridhar Arun Sutar, Mr. Sachin Virupaksh Pattekari.** At the U.G. Department of Chemistry, Jaysingpur College, Jaysingpur, as part of B.Sc academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of Science in Chemistry.

**Dr. B. M SARGAR**  
**HEAD OF DEPT CEMISTRY**



**Dr. B. M SARGAR**  
**PROJECT GUIDE**  
**Head**  
**Department of Chemistry**  
**Jaysingpur College, Jaysingpur**



Department of Chemistry  
Jaysingpur College, Jaysingpur

## CERTIFICATE

This is to certify that, **Miss.VISHAKHA VIKAS BHOSALE, MISS. PRAGATI BHAUSO CHAVAN, MISS.SNEHA DASHRATH KAMBLE, AND MISS. SHIVANI BABURAV GUBYAD** have been completed the project on **“DETERMINATION OF MICRONUTRIENT BY AAS”** for the partial fulfillment of Bachelors Degree in chemistry. They worked under my supervision as per rules and regulation of Jaysingpur College, Jaysingpur during the academic year 2022-23 and submitted the same. This work represents their bonafide work.



**Dr. B. M. Sargar**  
Head,  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur

Department of Chemistry  
Jaysingpur College, Jaysingpur



**Dr. B.M.SARGAR**  
Project Guide  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur





A PROJECT REPORT ON  
**“Manufacture of Jaggery Powder”**

Submitted to

Jaysingpur college, Jaysingpur.

AS A PARTIAL FULFILLMENT OF THE DEGREE OF  
BACHELORS OF SCIENCE IN CHEMISTRY

By

**Miss. Sakshi Satish Pandav**

**Miss. Nikita Arun Patil**

**Miss. Kirtika Dinesh Joshi**

**Miss. Diksha Dipak Patil**

**Under The Guidance Of**

**Dr. R. D. Tasgaonkar**

(M. sc, PhD)

**Department Of Chemistry,**

**Jaysingpur College, Jaysingpur, 2022-23**



Department of Chemistry  
Jaysingpur College, Jaysingpur

# **CERTIFICATE**

This is to certify that, **Miss. TEJAL SUBHASH KAMANNA and Miss. KISHORI ASHOK SAWALWADE** have been completed the project on **"SOIL ANALYSIS"** for the partial fulfillment of Bachelors Degree in chemistry. They worked under my supervision as per rules and regulation of Jaysingpur College, Jaysingpur during the academic year 2022-23 and submitted the same. This work represents their bonafide work.

**Mr. B. M. Sargar**

**Head,**

**Department of Chemistry  
Jaysingpur College,  
Jaysingpur**

**Head**

**Department of Chemistry**

**Jaysingpur College, Jaysingpur**

**Dr. S. R. Sabale**

**Project Guide**

**Department of Chemistry  
Jaysingpur College,  
Jaysingpur**

ANEKANT EDUCATION SOCIETY BARAMATI'S



JAYSINGPUR COLLEGE JAYSINGPUR

CERTIFICATE

This is to certify that project report entitled,

“TO STUDY ISOLATION OF NATURAL DYES FROM  
THE FLOWERS”

SUBMITTED BY

Mr. SHIVAM BASGONDA PATIL

Mr. SHUBHAM SHANKAR KUMBHAR

Mr. ROHIT EKNATH CHAVAN

I hereby certify that the matter embodied in this thesis entitled

“TO STUDY ISOLATION OF NATURAL DYES FROM  
THE FLOWERS”

Has been carried out by At the Department of Chemistry, Jaysingpur College, Jaysingpur.as part of B.Sc III academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of Science in Chemistry.

Dr. S.R.SABALE

PROJECT GUIDE

Dr. B. M. SARGAR

HEAD OF DEPT.OF CHEMISTRY





## Certificate

This is to certify that **Miss.Sakshi Bhanudas Mane, Miss. Kirti Kiran Sankpal, Miss.Vrushali Uttam Koli** students of B. Sc. Chemistry have prepared a Project Report titled **“Production Of Micro nutrients fertilizer”** as a partial full filaments of BSC Degree of Shivaji University, Kolhapur for the Academic Year 2022-23.

Dr. G. H. Nikam  
Department of Chemistry  
Jaysingpur College, Jaysingpur



Prof. B. M. Sargar  
**Head**  
Department of Chemistry  
Jaysingpur College, Jaysingpur

ANEKANT EDUCATION SOCEITY BARAMATI'S



This is to certify that project report entitled

“Alcohol and Ethanol”

Mr. GANESH MARUTI SOPNUR

Mr. ADITY UMESH SHINDE

Mr. ASHWIN RAJENDRA SHETTI

Mr. SWPNIL BALKRISHNA SUTAR

I hereby certify that the matter embodied in this thesis entitled

“Alcohol and Ethanol”

Has been carried out by At the Department of Chemistry, Jaysingpur College, Jaysingpur.as part of B.Sc III academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of B.Sc Chemistry.

Dr. G.H.NIKAM.  
PROJECT GUIDE



Dr. B. M. SARGAR  
HEAD OF DEPT.OF CHEMISTRY

**Head**  
Department of Chemistry  
Jaysingpur College, Jaysingpur



Department of Chemistry

Jaysingpur College, Jaysingpur

## CERTIFICATE

This is to certify that, Mr. ANIKET MIRAJE, Mr. KEDAR MANE, Mr. AMIT KAMBLE, Mr. ABHISHEK TRIPATHI have been completed the project on "**MILK ANALYSIS : A VISIT TO SWABHIMANI MILK DAIRY**" for the partial fulfillment of Bachelor's Degree in chemistry. They worked under my supervision as per rules and regulation of Jaysingpur College, Jaysingpur during the academic year 2022-23 and submitted the same. This work represents their Project work.

  
Dr. R. S. Dhabbe

Project Guide

Department of Chemistry

Jaysingpur Collage,



  
Dr. B. M. Sargar

Head,

Department of Chemistry

**Head**  
Department of Chemistry  
Jaysingpur College, Jaysingpur

# Swabhimani Agro Products Producer Co. Ltd.,

Regd. Off. : Gat No. 1021, Kalamwadi Estate Road, UDGAON.  
Tal. Shirol, Dist. Kolhapur. Ph. (02322) 222118, 222127, 7722052391  
E-mail : swabhimaniagro@gmail.com  
www.swabhimaniagro.com



SAPPCL /VIST/ 2022 -23

Date : 10.02.2023

## VISIT COMPLETION CERTIFICATE

This is to certify that **Mr. Amit Dadaso Kamble,**  
**Mr. Abhishek Dinesh Tripathi,**  
**Mr. Kedar Rajendra Mane,**  
**Mr. Aniket Vijay Miraje,**

Students of Jaysingpur College Jaysingpur, Tal : Shirol, Dist : Kolhapur.  
They worked our Company for 10 days for the purpose of industrial work.

During the period of their industrial work we found them to be sincere dedicating and hardworking.

**FOR SWABHIMANI AGRO PRODUCTS PRODUCER CO.LTD,**

**ADMINISTRATIVE OFFICER**







Department of Chemistry  
Jaysingpur College, Jaysingpur

### CERTIFICATE

This is to certify that, **Mr. AKSHAY VILAS JADHAV, Mr. NOMAN MEHBOOB SAYYED, Mr. BAPUSO DHONIDBA DHANGAR & Mr. ARJUN TIMANNA KURADE** have been completed the project on "**Exploring the Fundamentals of Soil Testing and Nutrient Management for Optimal Crop Growth**" for the partial fulfillment of Bachelor's Degree in chemistry. They worked under my supervision as per rules and regulation of Jaysingpur College, Jaysingpur during the academic year 2022-23 and submitted the same. This work represents their Project work.

  
**Dr. R. S. Dhabbe**  
Project Guide  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur.



  
**Prof. Dr. B. M. Sargar**  
Head,  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur  
Department of Chemistry  
Jaysingpur College, Jaysingpur



# JAYSINGPUR COLLEGE JAYSINGPUR



This is to certify that project report entitled,

**"CRITICAL MICELLE CONCENTRATION (CMC)"**

Submitted by

**Mr.Prathmesh Prilhad Jakhlale**

**Mr.Pranav Prasad Sapkal**

**Mr.Krutik Ravikant Magadum**

**Mr.Shivraj Manik Jagdale.**

I hereby certify that the matter embodied in this thesis entitled "**CRITICAL MICELLE CONCENTRATION (CMC)**" Has been carried out by At the U.G. Department of Chemistry, Jaysingpur College, Jaysingpur as part of B.Sc academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of Science in Chemistry.

**Dr. B. M. SARGAR.**

**HEAD OF DEPT. OF CHEMISTRY**

**Head**

**Department of Chemistry  
Jaysingpur College, Jaysingpur**



**DR. KABIR KUMBHAR**

**PROJECT GUID**



JAYSINGPUR COLLEGE, JAYSINGPUR

**CERTIFICATE**

This is certify that project report entitled,

"To study of oxalate ion content in Colocasia Esculenta"

Submitted by

MS. RUTUJA VISHVANTH BENDRE.

MS. PRIYA SHRIKANT SALUNKHE.

MS. NIKITA RAJARAM CHAVAN.

I hereby certify that the matter embodied in this thesis entitled "To study of oxalate ion content in Colocasia Esculenta"

Has been carried out by At the U.G. Department of chemistry, jaysingpur College, Jaysingpur. Aspart of B.Sc.-III academic educational project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of science in chemistry.

*Kabir Kumbhar*  
11/03/2023  
Project Guide,

Mr. KABIR KUMBHAR

Date : 12/03/2023

Examiner



*B. M. Sargar*  
Head of Department,

Dr. B. M. SARGAR  
**Head**

Department of Chemistry  
Jaysingpur College, Jaysingpur

ANEKANT EDUCATION SOCIETY BARAMATI'S



JAYSINGPUR COLLEGE JAYSINGPUR

## CERTIFICATE

This is to certify that project report entitled  
"GREEN SYNTHESIS OF ZnO NANOPARTICLES AND IT  
APPLICATION IN METHYL ORANGE DEGRADATION"

Mr. SUMIT KUMAR PATIL (PARMAPPA)  
MR. JITESH KUBER PATIL  
MR. MRUNAL SHAMRAO GAIKWAD  
MR. PRATIK PRAVIN SANKPAL

I hereby certify that the matter embodied in this thesis entitled  
"GREEN SYNTHESIS OF ZnO NANOPARTICLES AND IT  
APPLICATION IN METHYL ORANGE DEGRADATION"  
Has been carried out by At the Department of Chemistry, Jaysingpur College,  
Jaysingpur.as part of B.Sc III academic educational Project under my supervision  
and guidance for the fulfillment of the requirement for the award of degree of under  
graduate of Science in Chemistry.

*13/05/23*  
Mr. N. R. PRASAD.  
PROJECT GUIDE



*[Signature]*  
Dr. B. M. SARGAR  
HEAD OF DEPARTMENT OF CHEMISTRY  
Department of Chemistry  
Jaysingpur College, Jaysingpur





**A**

**PROJECT REPORT ON**

# **"ANALYSIS OF CHOCOLATE"**

SUBMITTED TO

**DEPARTMENT OF CHEMISTRY**

**JAYSINGPUR COLLEGE, JAYSINGPUR**

FOR PARTIAL FULFILLMENT OF BACHELOR DEGREE

**BACHELOR OF SCIENCE**

IN

**CHEMISTRY**

BY

| NAME OF STUDENT        | ROLL NO |
|------------------------|---------|
| DIGVIGAY VIKRAM PATIL  | 59      |
| ROHAN PRAKASH JADHAV   | 143     |
| PRATHMESH SHIVAJI KHOT | 144     |

UNDER THE GUIDANCE OF

**DR. N. R. PRASAD**

**DEPARTMENT OF CHEMISTRY**

**JAYSINGPURCOLLEGE, JAYSINGPUR**

**2022-2023**

ANEKANT EDUCATION SOCIETY BARAMATI'S



JAYSINGPUR COLLEGE JAYSINGPUR  
DEPARTMENT OF CHEMISTRY

A  
PROJECT REPORT  
ON

“SUGAR PRODUCTION FROM SUGARCANE”

SUBMITTED

TO

SHIVAJI UNIVERSITY, KOLHAPUR

BY

Mr. KARAN AJIT SHIKHARE  
Mr. ROHAN RAVINDRA PANDARE  
Mr. VINAYAK SHANKAR MANE  
Mr. ABHISHEK RAJENDRA MORE  
Mr. SUSHANT RAJKUMAR SANKAPAL

UNDER THE GUIDANCE OF  
MISS. H.A.CHOUGALE

2022-2023



Department of Chemistry  
Jaysingpur College, Jaysingpur

## **CERTIFICATE**

This is to certify that, Mr. DEVANG RAMGONDA PATIL Mr. PRATHAMESH VITHAL PATIL , Mr. SHUBHAM BAJRANG KOLI , Mr. HARSHVARDHAN LAXMAN KUMBHAR , Mr. SOURABH DADASO JAMDADE. have been completed the project on “ **ANALYSIS OF COLDRINK'S** ” for the partial fulfillment of Bachelors Degree in chemistry. They worked under my supervision as per rules and regulation of Jaysingpur College, Jaysingpur during the academic year 2022-23 and submitted the same. This work represents their bonafide work.

*H. A. Chougale*  
13/05/23  
MISS. H. A. CHOUGALE  
Project Guide  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur

*B. M. Sargar*  
DR. B. M. SARGAR  
head of deapartment  
Department of Chemistry  
Jaysingpur College,  
Jaysingpur  
Head  
Department of Chemistry  
Jaysingpur College, Jaysingpur





**A PROJECT REPORT**

**ON**

**"ANALYSIS OF DRAGON FRUIT "**

**SUBMITTED TO**

**JAYSINGPUR COLLEGE JAYSINGPUR AS A PARTIALFULFILLMENT**

**OF THE DEGREE OF B.Sc**

**CHEMISTRY**

**BY**

**1 . SNEHA TANAJI PATIL .**

**2 . AISHWARYA DATTATRYA MANE.**

**3 . MANSI PRAKASH GOURAJ.**

**4 . RUCHI RAJENDRA KURANE.**

**UNDER THE GUIDANCE OF**

**Miss. Y. C. PATIL**

**DEPARTMENT OF CHEMISTRY**

**JAYSINGPUR COLLEGE, JAYSINGPUR - 416 101**

**2022 -23**



**ANEKANT EDUCATION SOCIETY, BARAMATIS**

**JAYSINGPUR COLLEGE, JAYSINGPUR**

**This is to certify that project report entitled,  
"ANALYTICAL TECHNIQUES FOR SOIL TESTING"**

**[SOIL ANALYSIS]**

**Submitted by**

Miss.ASHVINI SAVANTA KUMBHAR.

Miss.URMILA RAVSAHEB MALI.

Miss.POOJA ASHOK NATEKAR.

Miss.SNEHAL SUNIL MALI.

**We hereby certify that the matter embodied in this thesis entitled, "ANALYTICAL  
TECHNIQUES FOR SOIL TESTING" [SOIL ANALYSIS].**

**Has been carried out by At the Soil analysis laboratory And UG Department of  
Chemistry, Jaysingpur College. Jaysingpur as part of B.Sc academic educational  
Project under my supervision and guidance for the fulfillment of the requirement  
for the award of degree of under graduate of Science in Chemistry.**

*Y.C. Patil*  
11/5/23  
**Miss. Y. C. PATIL**

**PROJECT GUIDE**



*[Signature]*  
**HEAD OF DEPT. OF CHEMISTRY**  
**Head**  
Department of Chemistry  
Jaysingpur College, Jaysingpur

ANEKANT EDUCATION SOCIETY BARAMATI'S



## JAYSINGPUR COLLEGE JAYSINGPUR



This is to certify that project report entitled,

**"MANUFACTURING OF FINE CHEMICALS (A.P.I CHEMICALS)..."**

Submitted by

**MS. PRIYANKA PRADIP CHOUGULE.**

**MS. AKASHATA JIVANDHAR GANGAL.**

**MS. SHRUTIKA SUNIL MAGDUM.**

**MS. POOJA MAHAVIR MAGDUM.**

I hereby certify that the matter embodied in this thesis entitled **"MANUFACTURING OF FINE CHEMICALS (A.P.I CHEMICALS)..."** Has been carried out by At the Rasino Herbs Pvt. Ltd Sangli Kupwad, as part of B.Sc academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of Science in Chemistry.

*S. S. Madnaik*  
13/05/23

Mrs. S. S. MADNAIK.  
PROJECT GUID

Dr. B. M. SARGAR.  
HEAD OF DEPT. OF CHEMISTRY



# JAYSINGPUR COLLEGE JAYSINGPUR



This is to certify that project report entitled,

**"STUDY OF OXALATE ION CONTENT IN GUAVA FRUIT"**

Submitted by

**Ms. SOUNDARYA RAJKUMAR MANGAVE.**

**Ms. RUTUJA DIPAK CHOUGULE.**

**Ms. HARSHADA SUKUMAR MINACHE.**

**Ms. NIKITA KUMAR CHOUGULE.**

I hereby certify that the matter embodied in this thesis entitled **"STUDY OF OXALATE ION CONTENT IN GUAVA FRUIT..."** Has been carried out by At the U.G. Department of Chemistry, Jaysingpur College, Jaysingpur as part of B.Sc academic educational Project under my supervision and guidance for the fulfillment of the requirement for the award of degree of under graduate of Science in Chemistry.

**Dr. B. M. SARGAR.**  
**HEAD OF DEPT. OF CHEMISTRY**  
**Head**  
Department of Chemistry  
Jaysingpur College, Jaysingpur



*Madnaik*  
11/05/23  
**Mrs. S. S. MADNAIK.**  
**PROJECT GUID**



A PROJECT REPORT

ON

"Preparation of Azodye from beta-naphthol"

SUBMITTED TO

JAYSINGPUR COLLEGE JAYSINGPUR AS A PARTIAL  
FULFILLMENT OF THE DEGREE OF

B.Sc

CHEMISTRY

BY

1. SMITA MOHAN PATIL.

2. POOJA RAVSAHEB KUMBHAR.

3. AMBIKA MANESH MAMADAPURE.

4. SHUBHANGI NAYAKU KOLI.

UNDER THE GUIDANCE OF

Miss. S. K. KHOT

DEPARTMENT OF CHEMISTRY

JAYSINGPUR COLLEGE, JAYSINGPUR - 416 101

2022 - 23





**A PROJECT REPORT**

**ON**

**“TO STUDY THE PRESENCE OF INSECTICIDES AND  
PESTICIDES IN VARIOUS FRUITS & VEGETABLES ”**

**SUBMITTED TO**

**JAYSINGPUR COLLEGE JAYSINGPUR**

**AS A PARTIAL FULFILLMENT OF THE DEGREE OF**

**BACHELOR OF SCIENCE**

**IN**

**CHEMISTRY**

**BY**

**Mr. Kannur Ramzan Noormohammad**

**Mr. Magdum Aniket Abhaykumar**

**Mr. Kamble Pranal Ajit**

**UNDER THE GUIDANCE OF**

**Miss . S. K. KHOT**

**M. Sc.**

**DEPARTMENT OF CHEMISTRY**

**JAYSINGPUR COLLEGE,**

**JAYSINGPUR - 416 101**

**2022-23**

**Anekant Education Society's**



**Jaysingpur College, Jaysingpur**

**Department of Chemistry**

**A**

Project Report on

**“PREPARATION OF HERBAL INK”**

Submitted to

**SHIVAJI UNIVERSITY KOLHAPUR**

By

**Miss. Pallavi Nandkumar Jadhav**

**Miss. Vaishnavi Rajaram Manjare**

**Miss. Gayatri Satish Chavan**

Under the guidance of

**Miss. Megha Narade**

**2022-23**

A  
PROJECT REPORT  
ON  
**“COMPUTER SHOP MANAGEMENT SYSTEM”**

Submitted to  
**“SHIVAJI UNIVERSITY, KOLHAPUR”**  
For the partial fulfillment  
of  
The requirement of the award  
**BACHELOR OF SCIENCE (COMPUTER SCIENCE (Entire)) (BCS)**

By

**Mr Biresha N. Khandekar**

**Mr Prathmesh S. Mali**

Under the guidance of

**Mrs. S. S. Gavade**



Through  
The Principal  
**JAYSINGPUR COLLEGE, JAYSINGPUR**  
**2022-2023**

A  
PROJECT REPORT  
ON

**“Super Market Management System”**

Submitted to

**“SHIVAJI UNIVERSITY, KOLHAPUR”**

For the partial fulfillment

of

The requirement of the award

**BACHELOR OF SCIENCE (COMPUTER SCIENCE (Entire)) (BCS)**

By

Mr. Sammed Rajendra Kalagol.

Mr. Nilinkumar Nitinkuamr Arasgonda.

Under the guidance of

Mrs. S.S.Gavade



Through

The Principal

**JAYSINGPUR COLLEGE ,JAYSINGPUR**  
**2022-2023**



**JAYSINGPUR COLLEGE, JAYSINGPUR**

**CERTIFICATE**

This is to certify that, the project report entitled “**Super Market Management System**” is record of project work, carried out in this college by Sammed R.Kalapgol, Nilinkumar N.Arasgonda in partial fulfillment of award of **B.Sc. Computer Science(Entire)** as laid down by Shivaji University, Kolhapur during the year 2022-2023. This project presents their sincere work carried out under our guidance.

To the best of my knowledge & belief the matter presented in this project report has not been submitted earlier to any university for similar purpose.

Place: Jaysingpur

Date: 15/05/2023

*Sspatil*  
15/05/23  
Mrs.S.S,Gavade

(Project Guide)

*B.A.Patil*  
15/05/23  
Mr. B.A.Patil

( H.O.D.)

*Prade*  
20/05/23  
(Examiner)

Shivaji University, Kolhapur

A  
PROJECT REPORT  
ON

**“Hospital Management System”**

Submitted to

**“SHIVAJI UNIVERSITY, KOLHAPUR”**

For the partial fulfillment

of

The requirement of the award

**BACHELOR OF COMPUTER APPLICATION (Entire) (BCA)**

By

**Miss Nikita A. Kage**

Under the guidance of

**Miss S. V. Patil**



Through

The Principal

**JAYSINGPUR COLLEGE, JAYSINGPUR**

**2022-2023**



JAYSINGPUR COLLEGE, JAYSINGPUR

CERTIFICATE

This is to certify that, the project report entitled “**HOSPITAL MANAGEMENT SYSTEM**” is record of project work, carried out in this college by Nikita A. Kage in partial fulfillment of award of **BCA. Computer Science(Entire)** as laid down by Shivaji University, Kolhapur during the year 2022-2023. This project presents their sincere work carried out under our guidance.

To the best of my knowledge & belief the matter presented in this project report has not been submitted earlier to any university for similar purpose.

Place: Jaysingpur

Date: 10/06/2023

Miss. S.V.Patil  
(Project Guide)

Mr. B.A.Patil  
(H.O.D.)

(Examiner)  
Shivaji University, Kolhapur



Project Report

**GLOSSARY SHOP MANAGEMENT SYSTEM**

Submitted to

**"SHIVAJI UNIVERSITY, KOLHAPUR"**

For the partial fulfilment

of

The requirement for the award

**BACHELORS OF COMPUTER APPLICATION**

By

Aditya Bhalchandra Madnaik.

&

Arihant Chandrakant Magdum.

Under the guidance of

Miss. Seema. Patil

Through

The Principal

**JYSINGPUR COLLEGE, JAYSINGPUR**

2022-2023





अनेकाल एज्युकेशन सोसायटीचे,

## जयसिंगपूर कॉलेज, जयसिंगपूर

मराठी विषयाच्या एम. ए. भाग - I साठी सादर करावयाचा शोधप्रबंध

शोधप्रबंधाचा विषय

**आदिवासी साहित्य**

अभ्यासक

वैभव बापुसो कोळी

मार्गदर्शक

प्रा. साजिदा आरवाडे

जयसिंगपूर कॉलेज जयसिंगपूर

शैक्षणिक वर्ष 2022-23



अनेकांत एज्युकेशन सोसायटीचे

## जयसिंगपूर कॉलेज जयसिंगपूर

मराठी विषयाच्या एम.ए. भाग 1 साठी सादर करावयाचा शोधप्रबंध

शोधप्रबंधाचा विषय

### मराठी कादंबरी

अभ्यासक

वैभव दगडू माने

मार्गदर्शक

प्रा. साजिदा आरवाडे

जयसिंगपूर कॉलेज जयसिंगपूर

शैक्षणिक वर्ष 2022-23

महाविद्यालयाचे  
नाव - अनैकान्त

एड्युकेशन सोसायटी  
टी. बाशमती

जयसिंगपूर कॉलेज  
जयसिंगपूर

Seen  
29/04/2023  
V. Good



महाविद्यालयाचे

नावः अनेकान्त

प्रत्युक्शन सोसायटी

बासमती.

जयसिंगापूर कॉलेज

जयसिंगापूर

विषयाचे नाव -

पर्यावरण

प्रकल्पाचे नाव-

टाकाऊकचऱ्याचे  
व्यवस्थापन

सन-2022-23

सावर्दरुशन-

प्रा. आर. डी

रुहामूलकरु

# प्रमाणपत्र

प्रमाणित दुरुन्यात घेतले ही द्वितीय वर्ष कक्षा शाखेच्या पर्यावरण अभ्यास या अनिवार्य विषयाअंतर्गत (टाडाऊ दुरुन्याचे व्यवस्थापन) या विषयासाठी खालील विद्यार्थी सद्यस्थितीत अभ्यास दुरुन हा पुढील शिवाजी विद्यापीठ मुल्हापूर यांना 2022/2023 या शैक्षणिक वर्षासाठी सादर केला आहे.

ठिकाण - जयसिंगपूर

दिनांक -

| अनु क्र. | विद्यार्थ्याचे नाव    | वर्ग    | रोल न. | सही                   |
|----------|-----------------------|---------|--------|-----------------------|
| 1.       | आरती प्रकाश बिर्जे    | B.A. II | 80     | <i>Arati</i>          |
| 2.       | हेश्वर्या अशोडु जाधव  | B.A. II | 81     | <i>HS</i>             |
| 3.       | मोनु रामु शर्मा       | B.A. II | 12     | <i>Munnu</i>          |
| 4.       | मालीक गोविंद वरंगन्ते | B.A. II | 13     | <i>M. V. Rangante</i> |
| 5.       | सुनिल प्रकाश दळवी     | B.A. II | 70     | S. P. Dalavi          |

मागदर्शक शिक्षकाची

सही

*[Signature]*  
28/05/2023

*Good*

प्राचार्य

जयसिंगपूर कॉलेज जयसिंगपूर

# प्रतिज्ञापत्र

आम्ही खाली सही करणारे टाढाक वृत्त्याचे व्यवस्थापन या पथविश्व अभ्यास विषयाच्या क्षेत्रीय प्रकल्पाची सर्व माहिती व निष्कर्ष आम्ही वृत्ती विद्यार्थी मंडळीपणे अभ्यास करून मिळवलेल्या माहितीच्या आधारे सत्य आहे. सदरच्या क्षेत्रीय प्रकल्पातील माहिती खोटी / चुकीची असल्यास व तसे निरीक्षण अस आल्यास विद्यापीठ नियमानुसार योग्य ती कारवाई करण्यास यावी.

| अ.क्र. | विद्यार्थीनाम       | वर्ग   | शेकनं | सही |
|--------|---------------------|--------|-------|-----|
| 1.     | आरती प्रकाश बिरजे   | B.A.II | 80    |     |
| 2.     | हेश्वर्या अशोड जाधव | B.A.II | 81    |     |
| 3.     | बाळु रामु शर्मा     | B.A.II | 12    |     |
| 4.     | साहील गोविंद वरगंठे | B.A.II | 13    |     |
| 5.     | सुनिल प्रकाश दळवी   | B.A.II | 70    |     |

मागदर्शक शिक्षकाची सही

प्राचार्य

जयसिंगपूर कॉलेज जयसिंगपूर

# अनुक्रमाणिका

1. प्रस्तावना

2. उद्देश

3. कार्यक्षेत्र

4. कार्यपद्धती

5. निरीक्षण

6. निष्कर्ष

7. छायाचित्र

8. संदर्भ



प्रकल्पाचे नाव :

टाकाऊ कचऱ्याचे  
व्यवस्थापन



# □ प्रस्तावना □

आपण दिवसभरामध्ये कित्येक ठामे बसतो. त्या प्रत्येक ठामा-  
मधून हुमी जास्त प्रमाणात टाडाक पदार्थ निर्माण होतात. दुाही टाडाक  
पदार्थ आपल्या पर्यावरणात हानिकारक असतात. तर दुाही टाडाक  
पदार्थ उपयुक्त असतात. निसर्गा मधून आपल्याला अनेक वस्तु  
मिळतात. त्या प्रत्येक वस्तु पासून दुाहीना दुाही प्रकारे वापर करून  
घेत असतो. दुाही वस्तु आपण वापर आल्यावर अनावश्यक म्हणून  
मोकून देतो. व तो पदार्थ निसर्गामध्ये दुचरा म्हणून ओळखले जातात.  
दुचरा हा आपणाच मनुष्य निर्माण करत असतो. दुचराचे योग्य  
प्रकारे विल्हेवाट न लावल्यास तो दुचरा हानिकारक सुद्धा होतो.

आपण जसजशी बाँतिकु प्रवाती बसतो. तसतसं  
आपलं वस्तु वापरण्याचं प्रमाण वाढतं आणि पर्यायाने आपण  
निर्माण केलेल्या दुचराचे प्रमाण आणि प्रदुशही आधीक वाढतात.  
पण तो दुचरा साठवून राहिल्याने त्यांचा नागरिकांवर व  
पर्यावरणावर दुष्परिणाम होतो. त्यामुळे दुचरा हा योग्य पध्दतीने  
निडाली हाबला बोला पाहिजे सर्व दुचरा हानिकारक नसतो.  
दुचराचे अनेक प्रकार असतात. त्यातील मुख्य दोन प्रकार म्हणजे  
सेंद्रिय आणि असेंद्रिय असेंद्रिय दुचरा अनेक पध्दतीने पुन्हा वापरण्यास  
उपयोगात आणला जाऊ शकतो. सेंद्रिय दुचरा प्रत्येक माणसाला  
उपयोगात आणले सहज शक्य आहे.

पण या सगळ्यासाठी इच्छाशक्ती असणं आवश्यक आहे.  
दुचराकुडे कळण्याचा आपल्या दृष्टीकडेन बदलायला हवा दुचरा  
ही समस्या म्हणून न पाहता त्याकुडे मनु संधी म्हणून पाहायला  
हवे शहरीपुरणामुळे पर्यावरण पुढुणाचा ज्या समस्या निर्माण आल्या  
आहेत. त्यात घन दुचराचे माडुप्रिबुरण व त्याची विल्हेवाट ही माडु  
मोठी समस्या बनली आहे.

# □ प्रस्तावना □

आपण दिवसभरामध्ये कित्येक कामे करता. त्या प्रत्येक कामा-  
मधून हमी जास्त प्रमाणात टाडाऊ पदार्थ निर्माण होतात. दुाही टाडाऊ  
पदार्थ आपल्या पर्यावरणात हानिकारक असतात. तर दुाही टाडाऊ  
पदार्थ उपयुक्त असतात. निसर्गा मधून आपल्याला अनेक वस्तु  
मिळतात. त्या प्रत्येक वस्तु पासून दुाहीना दुाही प्रकारे वापर करून  
घेत असतो. दुाही वस्तु आपण वापर आल्यावर अनावश्यक म्हणून  
मोकून देतो. व तो पदार्थ निसर्गामध्ये दुचरा म्हणून ओळखले जातात.  
दुचरा हा आपणच मनुष्य निर्माण करत असतो. दुचऱ्याचे योग्य  
प्रकारे विल्हेवाट न लावल्यास तो दुचरा हानिकारक सुद्धा होतो.

आपण जसजशी घोंठिणु प्रकृती करता. तसतसं  
आपलं वस्तु वापरण्याचं प्रमाण वाढतं आणि पर्यायाने आपण  
निर्माण केलेल्या दुचऱ्याचे प्रमाण आणि प्रकारही आधीच वाढतात.  
पण तो दुचरा साठवून राहिल्याने त्यांचा नागरिकांवर व  
पर्यावरणावर दुष्परिणाम होतो. त्यामुळे दुचरा हा योग्य पद्धतीने  
निहाली हावला बोला पाहिजे सर्व दुचरा हानिकारक नसतो.  
दुचऱ्याचे अनेक प्रकार असतात. त्यातील मुख्य दोन प्रकार म्हणजे  
सेंद्रिय आणि असेंद्रिय असेंद्रिय दुचरा अनेक पद्धतीने पुन्हा वापरण्यासाठी  
उपयोगात आणला जाऊ शकतो. सेंद्रिय दुचरा प्रत्येक माणसाला  
उपयोगात आणले सहज शक्य आहे.

पण या सगळ्यासाठी उच्छ्वाशकृती असणं आवश्यक आहे.  
दुचऱ्याकडे लक्षण्याचा आपल्या दृष्टीकडे बदलायला हवा दुचरा  
ही समस्या म्हणून न पाहता त्याकडे मद संधी म्हणून पाहायला  
हवे शहरीपुरोगामुळे पर्यावरण प्रदुषणाचा ज्या समस्या निर्माण आल्या  
आहेत. त्यात घन दुचऱ्याचे मादुप्रतिपूरण व त्याची विल्हेवाट ही मादु  
मोठी समस्या बनली आहे.

# उद्देश

1. परिसरातील टाढाक पदार्थांचे (बुचऱ्याचे) वर्गीकरण करणे.
2. परिसरातील टाढाक पदार्थांचे / बुचऱ्याचे विल्हेवाट द्यावा पुढारे लावता येईल याबाबतचे योग्य नियोजन करणे.
3. परिसरातील बुचऱ्याची योग्य व्यवस्था लावण्याची बाब करता येईल. याबाबत उपाययोजना सुचवणे व योग्य नियोजन करणे.
4. परिसरातील घनबुचरा व त्यामुळे होणारी दुर्गंधी रोखण्यासाठी बाब करता येईल अंमलबजावणी करणे.
5. घनबुचऱ्यातील घातक बुचरा व ओढयोगिक प्रक्रिया करून टाढाक स्रोतापासून निवारा प्रत्येक बुचरा ओळखणे.
6. परिसरातील शहरी भागातील बुचऱ्याचे प्रमाण दुसे दुमी होईल यासाठी प्रयत्न करणे.
7. प्रत्यक्ष कृतीद्वारे टाढाक बुचऱ्याचे स्वव्यवस्थापनचे दुर्गंध आत्मसात करणे.
8. बुचरा व्यवस्थापन तंत्रामुळे परिसर स्वच्छ राहतो व पुर्ण वापराद्वारे आरोग्य सुधारणा उपक्रम राबवता येतो हे टाढाक बुचऱ्याचे व्यवस्थापन याचे उद्दिष्ट आहे.

# कार्यक्षेत्र

आम्ही कला भाग II मध्ये शिकत असून  
आम्हाला पर्यावरण हा विषय अनिवार्य असून या  
विषया अंतर्गत प्रकल्प तुरूत आवश्यक आहे. यासाठी  
आम्ही टाकाऊ कचऱ्याचे व्यवस्थापन या विषयाची  
निवड केलेली असून या विषयासाठी प्रकल्पाचे  
कार्यक्षेत्र व्यापक स्वरूपाचे आहे.



# कार्यपद्धती

मी प्रस्तुत प्रकल्प सर्वेक्षण क्षेत्रघट आणि संशोधन पद्धतीचा वापर केला हा प्रकल्प दुरुव्याभाही मी त्याचे महत्त्व जाणुन घेतले. झुतकाली वातावरण आणि तसेच परिव्यातील परिस्थिती पाहून या प्रकल्पात आवश्यक ते सुद्धे मी समाविष्ट केले आहे.

सर्वप्रथम मी आमच्या परिसराचे योग्य पद्धतीने सर्वेक्षण केले. सर्वप्रथम परिसरातील कुचऱ्याचा वापर / प्रकार आणि प्रमाण समजावून घेतले. तेथील घरातील कुचरा कुती प्रमाणात तयार होतो. त्यासाठी काही व्यवस्थापन केले आहे. का? कुचऱ्याचा पुर्ववापर करता येईल का? याबद्दल सर्व माहिती घेतली.

तसेच परिसरातील व्यक्तीशी मुलाखत घेऊन तेथील परिस्थिती जाणुन घेतली. कुचऱ्याचा वापर व प्रकार / प्रमाण जाणुन घेतले. तसेच त्याची आर्थिक परिस्थिती व शिक्षण जाणुन घेतले. जेणे करून त्यांना त्याप्रमाणे मार्गदर्शन करता येईल प्रत्येक घरातील कुचऱ्याचा प्रकार व त्याचे प्रमाण यासाठी मंडू तक्रा तयार केला. त्याद्वारे पुढील माहिती शोधण्यास मदत झाली. तसेच मंडू पुश्नावली तयार केली. व त्याद्वारे पुढील संशोधन केले. तसेच मी माहितीसाठी वर्तमान पत्रे, मासिके टी. व्ही इंटरनेट सोबाईल मधील Youtube Google अशा विविध शासकीय अहवाल द्वारे मिळवली आणि तसेच मी पयविश्याशी निगडित पुस्तके व पयविश्याचा शिक्षकांची ही मदत घेतली आहे.

# □ निरीक्षण □

आतापर्यंत मी वुलेला सर्वेक्षणानुसार मी असे निरीक्षण वुले आहे. ही प्रत्येक परिसरातील वुमी आद्यिक प्रमाणात मागे वठनि वुल्याप्रमाणे वुचरा निर्माण होत असतो. या सर्व वुच-यामुळे आपल्या अवती-बोवती पयविरठा अस्वच्छ होत असत. विवाणु जीवाणु याची वाढ मोठ्या प्रमाणात होऊन आरोग्य विषयक अनेक तक्रारी समस्या निर्माण होतात. व स्वच्छ सुंदर परिसर हे मादु आपले स्वल्नच म्हणुन मनात कुठेतरी राहते.

वुचरा प्रत्येकजण आपल्या कृतीतुन निर्माण करतात. पण त्यांची बोब्य अंमलबजावणी न ज्ञाल्यामुळे अनेक समस्याची निर्मिती होते. त्यांच्या समस्या या आपण सर्वज्जनच निर्मिती होते. मिळुन तयार वुसतो. व शेवटी ते आपल्याच त्यापासुन होणारे वारि परिणाम कोणावे लागतात.

हा प्रकल्प राबल्यानंतर असे लक्षात येते की वुच-याची समस्या वुमी झाली आहे. ओला वुचरा, सुका वुचरा त्याचे व्यवस्थापन वुसणे तसेच जैविक व अजैविक खत याचेही व्यवस्थापन वुसणे आवश्यक आहे. त्यामुळे अनेक समस्या वुमी होल्यास महत होते. आजाराचे ही प्रमाण वुमी होशिल ही सर्वव्यवस्था लक्षात होऊन मी या प्रकल्प वुसण्याचे सुचवले आहे.

## ० टाढाक वुचरा म्हणजे वाय ? ०

हा वुचरा घरामधुन तयार होतो. उदा. टाढाक वागव वुचरा वस्तु व वेळने वाच. रबर, धातु, चामड्याच्या वस्तु इत्यादी औद्योगिक वुचरा रंग, बाळ, तेल, राख, जड धातु इत्यादी. धोडाहायक वुचरा : रासायनिक जैविक स्फोटक, रोगप्रसारक इत्यादी.

## ० प्रश्नाच स्वरूप →

घनवुचरा म्हणजे रोजच्या वापरतून उरलेल्या निरूपयोगी वस्तुंचा साठा. आपली घर, दुकाने, बाजी मंड्या, उपहार बरे सार्वजनिक संस्था, औद्योगिक संस्था रुग्णालये, शेती, बांधवामे या सर्व ठिकाणांहून अनेक वेगवेगळ्या प्रकारचा वुचरा रोजच्या रोज तयार होत असतो. आपण आपल्या घरातल्या टाढाक वस्तु, वुचरा सरळ घराबाहेर फेकून देतो. सासायटीच्या आवाशात, सार्वजनिक रस्त्यांवर, नाल्यांमध्ये, समुद्र-नद्यांमध्ये अगदी कुठेही आपण वुचरा फेकतो. याबद्दल आपल्याला बोणी प्रश्न विचारत नाही किंवा दंडही दुरत नाही.

महाराष्ट्रात प्रकृत वर्षात अंदाजे ६३ लाख टन वुचरा तयार होतो. ( महाराष्ट्रातला प्रत्येक माणूस दर दिवसाला अंदाजे ०.१५ ते ०.६३ किलो वुचरा दुरतो. ) त्यापैकी ७५ लाख टन घनवुचरा (सुमारे) ८० % हा नगरपालिका क्षेत्रांत तयार होतो. म्हणजेच वर्षाला सुमारे १३००० मालगाडीचे उबे घरतील गावठा वुचरा महाराष्ट्रात तयार होतो. या १३००० उब्यापैकी ७५००० उबे शहरांमध्ये वुचराचेच असतात !! हा सर्व वुचरा वेवळ मुख्य दुरून शहरांमध्ये तयार होणारा आहे. याशिवाय महाराष्ट्रात दरवर्षी इतर प्रकारचा वुचरा ही निर्माण होतो.

१. महाराष्ट्र राज्यात दरवर्षी निर्माण होणारा इतर वुचरा



| इतर कुचरा (प्रकार)       | दरवर्षी (लाख टन) |
|--------------------------|------------------|
| घरगुती कुचरा             | 75               |
| विषारी (Hazardous) कुचरा | 18               |
| दवाखान्यांमधला कुचरा     | 0.11             |
| इ- कुचरा                 | 0.20             |
| मूळ कुचरा                | 93.31            |

जागतिक बँकेच्या मूळा अंदाजानुसार 2025 मध्ये महाराष्ट्राच्या शहरी भागातून दर रोज 57.600 टन मूळा कुचरा निर्माण होणार आहे!

महाराष्ट्रात दर दिवशी 43.5 टन बायोमेडिकल कुचरा तयार होतो. देशामध्ये तयार होणाऱ्या मूळ बायोमेडिकल कुचरापैकी 60% कुचरा हा मूळच्या महाराष्ट्रात तयार होतो.

महाराष्ट्रात दरवर्षी मूळ 18 लाख टन विषारी कुचरा होतो. हा कुचरा वेगवेगळ्या दारूखान्यांमध्ये तयार होतो. उदा शस्त्रायुध, पेट्रोडिमिडल ड्रग्स तयार करणारे, चामड्याचे व इतर दारूखाने.

02. विद्याननिहाय विषारी कुचराची निर्मिती (MPCB, 2012)

| विभाग     | विषारी कुचरा (लाख टन) |
|-----------|-----------------------|
| अमरावती   | 0.069                 |
| बोल्हापूर | 0.59                  |
| चंद्रपूर  | 0.85                  |
| नागपूर    | 0.88                  |
| नाशिक     | 1.01                  |
| औरंगाबाद  | 1.32                  |
| मवी मुंबई | 1.42                  |



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जुने टी. व्ही. स्युझिडु सिस्टिम्स, रेडिओ, मोबाईल, ओव्हल, कम्प्युटर प्रिंटर, मोबाईल आणी लॅपटॉपच्या बॅट्या इत्यादी वस्तुंचा इलेक्ट्रॉनिड कुच्यामध्ये समावेश होतो. या कुच्यात शिस, बेरिन्डिम, पारा, बुडमिअम अशा अपायकारक जड धातु असल्याने तो अतिशय घातक असतो. युनायटेड नेशन्स च्या इ. कुचरा समस्या निर्मूलन डायरेक्मानुसार इलेक्ट्रॉनिड कुच्यात पिरियॅडिड तड्यातीळ 60 घटक असतात.

भारतात 4.50 लाख टन इ-कुचरा तयार होतो. चारपेंडी 70% इ-कुचरा हा 10 राज्यात तयार होतो. या राज्यांमध्ये महाराष्ट्र (20,270) टन राज्य प्रथम डुमांडावर आहे. महाराष्ट्र राज्यात व्हहन मुंबईत 11,017.06 टन, नवी मुंबईत 646.48 टन पुण्यात 2584.21 टन तर पिंपरी-चिंचवड मध्ये 132.37 टन इ-कुचरा तयार होतो. इ-कुचरा हा प्रामुख्याने उद्योग क्षेत्रामध्ये तयार होत असला तरीही इलेक्ट्रॉनिड वस्तुंचा वाढत्या धरगुती वापरामुळे तिधुन तयार होणाऱ्या कुचऱ्याचे प्रमाणही लक्षणीयरीत्या वाढत आहे.

या कुचऱ्याची हाताळणी आणी विल्हेवाट लावणं ही दिवसेंदिवस मडु गंभीर समस्या बनत चालली आहे. या इ-कुचऱ्यात विविध प्रकारचे धातु आणी ऑसिडीड गुणधर्म असलेले पदार्थ असल्याने ते जाळल्यास त्यातून होणाऱ्या उत्सर्जनामुळे मोठा धोडा निर्माण होतो. हा इ-कुचरा जमिनीत गाडणं धुंवा जाळण टाडणं पथविस्थाच्या आणी आरोग्याच्या दृष्टीने अत्यंत घातक ठरतं. सर्वात चिंतेची बाब म्हणजे राज्यातला हा इ-कुचरा अजुनही मंगारवालेच खरेदी करतात. ज्यांच्याडुडे वेळानिडु पध्दतीने त्याची विल्हेवाट लावण्याची व्यवस्था नाही.

शहरातून गोळा होणारा कुचरा आपण लांब कुडेतरी नेऊन पुरतो/धुंवा केडतो आणी तिथे कुचऱ्याचे डोंगर रचतो. महाराष्ट्रातल्या कुठल्याही छोट्या-मोठ्या शहरांमध्ये प्रवेश बुरण्यापुर्वी द्रवर पसलेले प्लास्टिड व कुचऱ्याचे डोंगर आपल्याला पाहायला मिळतात. वगिंधरण न करता कुठलीही प्रक्रिया न करता अशा प्रकारे टाडलेला कुचरा हा सर्वच दृष्टीने हानिकारक असतो. उदाहरणच. पहा. पुणे-सोलापुर महामार्गाविरुध्या उरळी गुंचन या गागात पुणे शहरातला सगळा कुचरा पुरेशा प्रद्विचेविना व योग्य व्यवस्थापनाविना टाडला जातो.

# कचरा ब्यवस्थापन



चला आपली पृथ्वी  
वाचवूया!



What is Solid Waste Management

गेल्या 20 वर्षात तयार झालेल्या बुच-याच्या डोंगरामुळे पाव्यामुळे दुर्बिधी, मारा, डामांचे साम्राज्य बुच-यातून पाझरणाच्या आणी त्यामुळे सतत उब्बवणाच्या आरोग्याच्या समस्या यांनी बाँबीर रूप धारण केले आहे.

आपल्या आसपास तयार होणाऱ्या बहुतांश बुच-यावर प्रुडिया बुरून तो पुन्हा उपयोगात आणला जाऊ शकतो ; परंतु अजुनही आपल्याला याचे बाँबीर नसल्याने आपण बुचरा वेगवेगळा करण्यासाठी साधी बाले देखील बुरत नाही. बुच-याचे वगविरा न दुल्यामुळे त्याच्या वनविर नियंत्रण हेवता येत नाही व पुनर्विर बुरण्याजोगे बरेच गुही वाया जाते. वगविरा न केलेला बुचरा (बुचरा-कुड्यांमधला व धराधरातून बाळा केलेला) अखेरीस शहराच्या बाहेर उघड्यावर ( बुचरा उेगोमध्चे ) टाडला जातो. ज्यामुळे आजुबाजुला वरिसर बालिच्छ होतो. उघड्यावर टाडलेला बुचरा तिथेच कुजतो, त्यातून दुर्बिधी सुरते व रोगशई पसरते.

वाढती लोबुसंख्या, शहरीबुरण, उंचावलेले राहणीमान, औद्योगीबुरण प्लास्टिकचा वाढता वापर यांमुळे तयार होणाऱ्या बुच-याचे प्रमाण व प्रुडार वाढत जातात. आणी वेगवेगळ्या समस्या निर्माण होतात. अस्वच्छता, आजार, पुदुषण, सौंदर्यहानी आणी पयविरणाचे नुबुसान असे अनेक प्रश्न त्यातूनच निर्माण होतात. बुच-या ची विल्लेवाट लागायची सर्वात सोपी व स्वस्त पध्दत म्हणजे तो पुरणे डिंग उघड्यावर जाळणे. यण त्यामुळे पयविरणावर परिणाम होतो. उघड्यावर जाळल्यामुळे डिंग अशास्त्रीय पध्दतीने पुरल्यामुळे हवा, कुजल आणी माती दुर्बित होते. समुद्र डिनारी वसलेल्या मुंबई शहराचा बुचरा खाड्यांमध्चे टाडला जातो.

मविल्यात वाढत जाणारा बुचरा आणी त्यामुळे होणारे नुबुषण परिणाम पाहता बुच-याच्या समस्याकुडे आपण प्राधान्याने लक्ष हेो अत्यंत गरजेचे आहे.



कूड़ा-बुचरा ना फैलाना  
 सबकुछ जिम्मेदारी डोनी चाहीस।  
 देश स्वच्छ और स्वस्थ बनाने में  
 सबकुछ भागीदारी डोनी चाहीस।



आपठ नदी नाल्यांमध्ये जो डुकरा टाकून देतो तो पुढे हळुहळु समुद्र वनंतर महासागरामध्ये जाऊन मिळतो. समुद्रात वरवर आपल्याला दिसत नसले तरीही हे डुकर्याचे दोग समुद्रात खोलवर जाऊन बसलेले असतात. त्यामुळे नेमडा द्विती डुकरा समुद्रात आणि महासागरात आहे याची निश्चिती माहीती आपल्याला बुद्दीच मिळत नाही. आपठ माणसांनी डुकर्यात प्लॉस्टिड टाडुल्यामुळे प्राण्यांना द्विती हानी पोचते याचे बांधीर्ष आपल्याला अजुनही नाही. फेब्रुवारी 2014 डेरळ मधल्या साबरीमाला वनक्षेत्रात हल्लीगीने प्लॉस्टिड खाल्यामुळे आपले प्राण गमावले या हल्लीगीच्या पोटाच्या आतड्यात प्लॉस्टिड पिराच्या व धानुपत्रे सापडले. या हल्लीगीने नुडलेच मडा पिल्लाला जन्म दिला होता.

डुकरा व्यवस्थापन म्हणजे डेवळ डुकरा मद्रुमित जमा डुरून त्याची जाकुन विंग पुरून विल्लेवाट लावणे आहे. डुकरा व्यवस्थापन म्हणजे डुकरा बाळा डुरून त्याचे वगीडिरठा, त्यानुसार त्याचा पुनवपिर विंग त्यावर प्रडिया डुरून योग्य रित्या त्याची विल्लेवाट लावणे या बाबतीत शासनाने नियम बनवले आहेत. ते अत्यंत योग्य आहेत. नागरी घन डुकरा (व्यवस्थापन वहाताळणी) नियम 2000 नुसार डुकर्याचे वगीडिरठा डुरणे आहे आणि उघड्यावर डुकरा टाडुल्यास (प्रामुख्याने वस्तीच्या जवळ बंदी आहे. असं असलं तरी राज्यातल्या सर्व शहरांमध्ये आणि गावांमध्येही डुकर्याची समस्या आज प्रमानाबाहेर वाढते आहे.

### असं तुा होतं ?

घनडुकर्याच्या समस्याला सामोरे जाण्यास जरी आपला डुकरा सुयोग्य असला तरी खरी अडचण अंमलबजावणीची आहे. डुकर्याच्या समस्याला आपठ नागरिडही तिनडेच जबाबदार आहेत हे आपठ लक्षात घ्यायला हवे. आपला परिसर स्वच्छ ठेवावा चॉबुलेट खाऊन ठुंडाळलेला डुगद तिथेच फेडुनये, पाणी पिऊन झाल्यावर बादली बाडीच्या खिडकीतून थिरडाऊन देऊनये. या साह्या बाबी आपठ लक्षात ठेवत नाही तसे वळण आणि शिस्त आपल्या मुलांना लावत नाही. आपठ निव्दाळजीवणे वस्तु टाकून देतो आणि विसरून जातो.



स्वच्छ स्वफाई ठरुद्या,  
बिमाही ठरवुद्या.





## असंडा होतं ?

घनदुर्ग्याच्या समस्याला सामोरे जाण्यास जरी आपला दुर्ग्याच्या समस्याला आपण नागरिकही तितक्याच जबाबदार आहोत हे आपण लक्षात घ्यायला हवे. आपला परिसर स्वच्छ ठेवावा. गॅडलेट खाऊन ते बाँडाळलेला ड्रागद तिथेच फेकू नये. पाणी पिऊन बागी लक्षात ठेवत नाही. तसे वळण आणि शिस्त आपल्या मुलांना लावत नाही. आपण निव्हाळणीपणे वस्तु टाकून देतो आणि विसरून जातो. आपला परिसर म्हणजे दुर्गरा टाकण्याचे ठिकाण आहे असच आपण समजतो.

मठे बाजूला आपण निर्माण बुरत असलेल्या दुर्ग्याची नीट विलेवाट लावण्याची जबाबदारी आपण घेत नाही. तर दुसऱ्या बाजूला आपल्या वस्तुंबुडे बघण्याचा दुष्टिबुनच बदलतो आहे. आज बाजारात अनेक गोळे उपलब्ध आहेत. त्या विकत घेऊ शकण्याची आपली क्षमताही वाढली आहे. पण त्यासोबत जबाबदारी येते हे आपण लक्षात घेतलेले नाही. माखादी वस्तु विकत घेताना आपल्याला त्याचा नक्की उपयोग आहे की नाही हे न पाहता आपण नव. नवीन वस्तु घेत राहतो. माखादया वस्तुची आपल्याला खरच बरज आहे. हा हे न तणासल्याशिवाय आपण पटकून ती घेऊन टाकतो.

वाढती लोडसंख्या व आर्थिक परिस्थिती त्याच बरोबर रोजगार, वेळ्याद्विबु मिळवत, पुन्हा उपयोगात आणण्यासाठी प्रक्रिया बुरत। येण्यासारख्या वस्तुंचे महत्त्व, व्यवस्थापन यंत्रणेची विमंत, इतर अशा अनेक गोळी घनदुर्गरा निर्मितिवर परिणाम करतात. आपली जीवनेशेली व गोळी उपयोगाच्याची पहलतच घन दुर्ग्याचे प्रमाण वाढ्याला डारणीबुत ठरते. आजच्या उपभोक्तावादी, समाजामध्ये प्रती व्यक्ती प्रतीदिन दुर्गरा वाढीचे प्रमाण लोडसंख्या वाढीच्या प्रमाणापेक्षा आर्थिक बातीने वाढत आहे.

आगी ते वाढत्या वैद्युतिक मिळवती वरोवर आगच्छी वाढेल अशी  
 चिन्हे आहेत. महाराष्ट्रात दर दिवशी 20,500 टन हून आघिद  
 धनकुचरा निर्माण होते. यापैकी 50% मुख्य शहरांमधून (मुंबई  
 ठाणे आगी पुणे) निर्माण होते. मुंबईमधून प्रत्येक दिवशी  
 6500 टन धनकुचरा तयार होते. त्यानंतर पुणे (1750 टन प्रति  
 दिवशी) आगी ठाणे (1200 टन प्रति दिवशी)

महाराष्ट्रातील धनकुचराची समस्या ही फार मोठी आहे  
 आगी ती दिवसेंदिवस वाढतच जात आहे. हा धनकुचरा सर्वत्र  
 परिसरात आगी आघिवासात पसरला आहे. आगी तो साफ दुरतो  
 म्हणजे सड मोठे आव्हान आहे. असक्षम व्यवस्थापनामुळे आगीचे  
 प्रदुषित झालेल्या पाणी आगी मातीमळे शुधाराणा दुरतो अशादुय-  
 प्राय बोलत आहे. असक्षम व्यवस्थापन आगी धनकुचरा व्यवस्था-  
 पनाबद्दल असलेल्या बेफिडीर द्वाळिडोनाचा परिणाम पर्यावरणाच्या  
 दर्जावर व सार्वजनिक स्वास्थावर होतो आहे. नैसर्गिक साधनसंपत्तीचे  
 नुकसान, खालवलेले पचविरण व सार्वजनिक स्वास्थाचा आजचा  
 दर्जा छोडादायक परिस्थितीच्या वरचा आहे।

## काय दुरायला हवे ?

कुचरा हा दुसऱ्या दुोणाची तरी समस्या आहे असे म्हणून  
 चालतार नाही. आपण निर्माण दुरणाच्या कुचरांचे व्यवस्थापन  
 दुरंधासाठी सामाजिक जागृती, राजकीय इच्छाशक्ती व प्रत्येक  
 नागरिदुाचा सहभाग अत्यंत महत्त्वाचा आहे.

सर्वप्रथम म्हणजे कुचरा दुरंधाचे प्रमाणच मुळात दुपी दुरता येते  
 दुा हे पाहायला हवे. आपण वापरत असलेल्या वस्तु दुपी दुर  
 शकतो दुा? देवळ जुनी झाली म्हणून ती वस्तु टाडायची हे  
 आपण टाडु शकतो दुा? ती टाडायच्या पुर्वी आपणच तिचा  
 पुनर्वापर दुर, शकतो दुा? असा विचार आपण सर्वांनीच दुरायला  
 हवा आहे.

# WASTE MANAGEMENT

## INFOGRAPHIC ELEMENT



Placeholder text for infographic element



पुढील घिरीसाठी  
 चांगली देन  
 माझा परिसर  
 स्वच्छ ठेवेन.

कचरा तुरुन्नी तुमी  
 आशेव्याची  
 सिद्धेव तुमी.



तसेच उत्पादन गुंपण्यांनी आपापल्या उत्पादनांवर प्रद्विया-  
 कुरण्याची जबाबदारी घ्यायला पाहिजे. लांब पल्याचे उत्पादन  
 खर्चाचे ठारित पाहता, उत्पादनांना त्यांची वापरून मानेली  
 उत्पादने ब्राह्कांडून परत घेणे हे कायद्याचेच करते. उदाहरण-  
 वापरून संपलेल्या खाद्यतेलाच्या फायाचे उबे हे उत्पादन गुंपनी  
 ब्राह्कांडून परत घेते व नवीन खरेदीवर दुाही रबुदुमेची सुट्टी  
 देते. असे सर्वत्र उत्पादनांच्या बाबतीत ल्हायला पाहिजे.

**असा विचार कुरण्याशिवाय आपल्याला गर्त्यतर नाही हे  
 मान लक्ष्तात घेतले पाहिजे.**

प्रत्येकाने स्वतःच्या परिसरात निर्माण होणाऱ्या धन-दुचरा  
 चे प्रमाण तुमीत तुमी कुरण्याचे प्रयत्न कुरायलाच हवेत. त्या पुढची  
 पायरी म्हणजे नागरिदुांनी दुचऱ्यांचे वर्गिदुरण चार प्रद्वारात कुरावे  
 असे अपेक्षित आहे. रिमाइडुलेबल (पुन्हा प्रद्विया कुरता येण्या-  
 सारखा), रियुसेबल (आहे त्याच स्वरुपातील टाडुडु पदार्थ पुन्हा  
 वापरता येईल असा), बायोडिग्रेडेबल (विघटन होणारा) आणि  
 प्रद्विया न कुरता येण्याजोगा दुचरा. असे वर्गिदुरण केल्यावर विघटन  
 होणाऱ्यांवि दुचऱ्यांवर प्रद्विया कुरून त्याचा खत म्हणुन वापर  
 कुरण्याची जबाबदारीही आता नागरिदुांचीच आहे. ती आपण  
 उचलायला हवी.

निवासी बागांमध्ये त्याच्या डिडुाणी दुचऱ्यामात्या  
 वर्गिदुरण कुरणे आणि जेविडु दुचऱ्याचे विघटन कुरणे यासाठी  
 तिघल्याच लोडुांना सहयोगी कुरून घेऊन दुचऱ्यामाचे व्यवस्थापन  
 कुरण्याचे दुाऱ्यदुम राबविले जाणे गरजेचे आहे. प्रद्विया कुरून पुन्हा  
 वापरता येईल असा दुिंवा पुन्हा तसाच वापरता येईल असा दुचरा  
 उचलणारे आाणी तो संगाधित संत्रणेडुडे पाठकुन तो परत माडुदा  
 वापरत आणणारे अनेडु उद्दयोग आज आपल्याडुडे आठेत. दुागद  
 दुाच-पत्रा दुळदुरी पंचायत, स्वच्छ सारक्या संस्था यात मोलाची  
 कामगिरी बजावतात. बाजारात असलेल्या प्रत्येडु वस्तुतुन जे  
 हाही वाचवण्याजोगे आहे ते पुन्हा उपयोगात आणण्याचे दुामया  
 संस्था कुरतात.



प्लास्टिड हा पृथ्वीचा सक्षत आहे,  
प्लास्टिड ठाठा,  
पृथ्वीचे रक्षत का.



# संदर्भ

सदर विषयाशी संबंधित पुढील तयार बुरव्यासाठी मी पुढील साधनांचा वापर केला आहे. पुढीलपुढावे इंटरनेटवरील वेबसाईट तसेच त्याच्या आधिष्ठ विडु त्याचबरोबर पर्यावरणीय पुस्तकातून याच्याशी संबंधित माहिती मिळवली

तसेच वेगवेगळ्या वर्तमानपत्रातून मला अनेक दादाक, बुचयाचे व्यवस्थापनाची माहिती त्याचबरोबर पर्यावरण विषयक शिक्षक यांनीही माहिती मिळवण्यास मदत केली. त्यामुळे माझा प्रबुल होव्यास मदत झाली.

वेबसाईट . [www.google.com](http://www.google.com)

वर्तमानपत्रे . लोडुमत .पुढारी

Seen  
29/05/2023

N. Good

2022-23

JAYSINGPUR COLLEGE, JAYSINGPUR

Name of Committee: Department of English Date: 26/08/22

Meeting Notice

The first meeting of the faculty of English department will be held at 11:00 am on 26/08/22, Friday in the department. You are requested to attend the meeting.

Dil

Agenda of Meeting

1. General meeting for the planning of work distribution
2. Discussion on departmental time-table - 2022-23
3. Discussion on departmental calendar - 2022-23
4. Any other matter with the permission of the chairperson

| Sr. | Name                   | Sign.         | Sr. | Name | Sign. |
|-----|------------------------|---------------|-----|------|-------|
| 1.  | Dr. Mrs. S. S. Shelake | <u>Dil</u>    |     |      |       |
| 2.  | Mrs. S. G. Patil       | <u>Patil</u>  |     |      |       |
| 3.  | Mr. K. S. Patil        | <u>Patil</u>  |     |      |       |
| 4.  | Mr. A. D. Shinde       | <u>Shinde</u> |     |      |       |

PROCEEDING BOOK

Name of Committee: Department of English Date: 26/08/22  
 Place: Department of English Time: 11:00 am  
 Chairman of Meeting: Dr. Mrs. S. S. Shelake  
 Coordinator of Committee: \_\_\_\_\_

| Sr. | Name                   | Sign.         | Sr. | Name | Sign. |
|-----|------------------------|---------------|-----|------|-------|
| 1.  | Dr. Mrs. S. S. Shelake | <u>Dil</u>    |     |      |       |
| 2.  | Mrs. S. G. Patil       | <u>Patil</u>  |     |      |       |
| 3.  | Mr. K. S. Patil        | <u>Patil</u>  |     |      |       |
| 4.  | Mr. A. D. Shinde       | <u>Shinde</u> |     |      |       |

MINUTES OF MEETING

1. It was decided that Mrs. S. S. Shelake will teach B.A. III Poetry and Drama, B.A. I (Optional) and B.A. II (Optional) Partition literature
2. Mrs. S. G. Patil will teach B.A. I (Compulsory), B. Com. I (Compulsory), B.A. II (Optional) and B.A. III Novel and literary criticism.
3. Mr. K. S. Patil will teach B.A. II (Compulsory), B. Com. II (Compulsory) and B.Sc. I (Compulsory)
4. Mr. A. D. Shinde will teach B.A. III (Compulsory), B. Sc. III Compulsory, B.A. III - Language and linguistics
5. It was decided that Departmental calendar should be made with reference to the B.As, D.As, and all types of departmental programmes.
6. It was also decided that previous time-table should be followed with minor changes.



Anekant Education Society's  
Jaysingpur College Jaysingpur  
Department of English  
2022-23

Seminars

B.A. III (English)

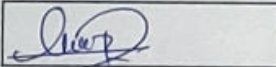
Name of the Students- Pratik Rausaheb Shirpur

Roll no. - 27

PRN No.- 2020048006

Paper No.- VIII

Name of the Paper- English Poetry

Student's Sign- 

Teacher's Sign- 





Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
**Department of English**  
**2022-23**

**Seminars**

**B.A. III (English)**

Name of the Students- Abhishek vilas Salakhe

Roll no. -

PRN No.-

Paper No.- VII

Name of the Paper- Introduction to literary criticism

Student's Sign-

Teacher's Sign-



Anekant Education Society's  
Jaysingpur College Jaysingpur  
Department of English  
2022-23  
Seminars  
B.A. III (English)

Name of the Students- Pooja Krishna Mahatme

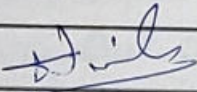
Roll no. - 18

PRN No.- 2020036625

Paper No.- IX

Name of the Paper- Drama

Student's Sign- 

Teacher's Sign- 



Anekant Education Society's  
**Jaysingpur College Jaysingpur**  
**Department of English**  
**2022-23**

**Seminars**

**B.A. III (English)**

Name of the Students- Riza Attar

Roll no. -

PRN No.-

Paper No.-

Name of the Paper- Litreary criticism

Student's Sign-

Teacher's Sign-