



**Prof. T. J.SAWANT**  
D.E.E,B.E.(Elec.), MISTE  
**Founder-Secretary**

**JAYAWANT SHIKSHAN PRASARAK MANDAL'S**  
**JAYAWANTRAO SAWANT**  
**COLLEGE OF PHARMACY & RESEARCH**

S. No. 58, Handewadi Road, Hadapsar, Pune- 411028.  
Phone : +91-020- 64005920 Tel Fax: +91-020-26970565  
E-mail : [jspm.jscopr@gmail.com](mailto:jspm.jscopr@gmail.com) Website : [www.jspm.edu.in](http://www.jspm.edu.in)  
(Approved by PCI & AICTE, New Delhi, DTE, Govt. of Maharashtra, Mumbai, and  
Affiliated to Savitribai Phule Pune University, Pune) DTE Code: PH6387



**Dr V.V. POTNIS**  
M.Pharm., Ph.D.  
**Principal**

**Date: 22/01/2022**

To,  
The Coordinator,  
NAAC, Bengaluru.

Subject: Proof of Student-centric methods used for enhancing learning experience.

Reference: 2.3.1 Student-centric methods are used for enhancing learning experience.

Dear Sir/Madam,

2.3.1 Student-centric methods used for enhancing learning experience by

- Experiential learning
- Integrated/interdisciplinary learning
- Participatory learning
- Problem solving methodologies
- Self-directed learning
- Patient-centric and Evidence-Based Learning
- Learning in the Humanities
- Project-based learning
- Role play

  
**Principal**  
Jayawantrao Sawant  
College of Pharmacy & Research  
Hadapsar, Pune - 411 028.



## **XPERIENTIAL AND PARTICIPATORY LEARNING**

**1. Title of Activity: Survey on plant based cosmeceuticals and Ayurvedic formulations**

**2. Date & venue:** 20/10/2020 to 05/11/2020. Online mode and ZOOM

**3. Number of students participated:** 63

**4. Description of activity:**

All Final year students participated in the survey activity. The students were divided into groups as Group A to Group L about 5 students in each group. A survey based on herbal cosmeceuticals was assigned to each group. Due to COVID-19 pandemic, online survey activity was designed so that the students can access internet and use the platform for gathering knowledge related to plant based cosmeceuticals available in the market. Before the survey students were briefed about the points such as:

- Brand name
- Pharmaceutical product classification: e.g, powders, semi-solid, solution, emulsions/suspension /etc.
- Route/s for administration/application
- Part of plant used in the formulation
- Other ingredients in formulations (names, quantity)
- Concentration of plant material used (Strength either as w/w, w/v etc.)
- Indications mentioned on label of product -for which disease/disorder ?
- Name and address of the manufacturing company
- Type of unit pack: e.g non collapsible plastic tube of unit packing 50 g.
- Photo of pack/product

**5. Outcome of activity:**

Currently herbal cosmeceuticals is the emerging and trending field. The students able to utilize their time and upgrade their knowledge related to herbal cosmeceuticals. Also such activity help them to explore themselves and as a collective work ample of information was gathered for about 12 different cosmeceuticals which can be used by all the students in future.All the groups submitted their report in systematic way to the activity incharge.

**Staff coordinators:**

<b>Sr.No.</b>	<b>Name of Teacher</b>	<b>Designation</b>
1	Ms. Kulkarni A. S.	Asst. Professor

## Few Screenshots of reports submitted by the students

### Survey on tea tree oil cosmeceutical formulation (Gr G Roll no. 32-36)

group G(32-36) Tea tree oil - Microsoft Word

Home Insert Page Layout References Mailings Review View

Times New Roman 16

Font Paragraph Styles

Final year app 170

NeemCosme Club

**ജയന്തം സ്മാരക സാഹിത്യം**  
**Jayantaram Sarmak College of Pharmacy & Research**

Name of academy: Survey on Tea tree oil cosmeceutical formulations

Department: **Pharmaceutics**

Subject: **Pharmaceutical Technology**

Class: **Final Year Sem. VII**

Prepared by:

Roll No.	Name of students
32	Arjun Sankar Nambiar
33	Arjun Sankar Nambiar
34	Arjun Sankar Nambiar
35	Arjun Sankar Nambiar
36	Arjun Sankar Nambiar

INDEX

Sr	Name of Formulation	Page no.
1	Simple & Antiseptic (Tea tree oil)	2
2	Body Soap (Tea tree oil) Skin care	4
3	Face soap (Tea tree oil)	6
4	Hand soap (Tea tree oil)	8
5	Shampoo (Tea tree oil)	10
6	Body lotion (Tea tree oil)	12
7	Hand sanitizer (Tea tree oil)	14
8	Body cream (Tea tree oil)	16
9	Body powder (Tea tree oil)	18
10	Body spray (Tea tree oil)	20
11	Body mist (Tea tree oil)	22
12	Body oil (Tea tree oil)	24
13	Body butter (Tea tree oil)	26
14	Body scrub (Tea tree oil)	28
15	Body mask (Tea tree oil)	30

Serial Name	Remarks
Pharmaceutical product identification	<b>NeemCosme Club</b>
Name for administration	<b>NeemCosme Club</b>
Date of place used in the formulation	<b>NeemCosme Club</b>
Other ingredients in formulation (Name, quantity)	<b>Tea tree oil, Glycerin, Stearic acid, etc.</b>
Concentration of plant material used (Storage stability in % w/w, v/v, etc.)	<b>NeemCosme Club, Pharmaceutics Department</b>
Validation mentioned in label of product for which formulation?	<b>NeemCosme Club</b>
Name and address of the manufacturing company	<b>The Pharmacy Group College, NeemCosme Club</b>
Type of drug pack	<b>100% w/w</b>
Indication for use	<b>Apply on Cleaned Skin. Do not use on any open wound. Do not use on any part of the body that is irritated or inflamed. Use on the face, neck, and chest. Do not use on the face before making skin contact.</b>
Uses	<b>Reduce itching, Reduce skin dryness, Improve skin tone, Strengthen hair, Reduce dandruff, Improve skin texture, Control acne, etc.</b>
Photo of Drug Product	

Page: 1 of 17 | Words: 2,186 | English (United States) | 14:49 06-08-2021

### Survey on Neemcosmeceutical formulation (Gr. C Roll No. 11-15)

Group C (11-15) Neem - Microsoft Word

Home Insert Page Layout References Mailings Review View

Times New Roman 11

Font Paragraph Styles

Final year app 170

NeemCosme Club

**ജയന്തം സ്മാരക സാഹിത്യം**  
**Jayantaram Sarmak College of Pharmacy & Research**

Name of academy: Survey on Tea tree oil cosmeceutical formulations

Department: **Pharmaceutics**

Subject: **Pharmaceutical Technology**

Class: **Final Year Sem. VII**

Prepared by:

Roll No.	Name of students
11	Arjun Sankar Nambiar
12	Arjun Sankar Nambiar
13	Arjun Sankar Nambiar
14	Arjun Sankar Nambiar
15	Arjun Sankar Nambiar

INDEX

Sr	Name of Formulation	Page no.
1	Simple & Antiseptic (Tea tree oil)	2
2	Body Soap (Tea tree oil) Skin care	4
3	Face soap (Tea tree oil)	6
4	Hand soap (Tea tree oil)	8
5	Shampoo (Tea tree oil)	10
6	Body lotion (Tea tree oil)	12
7	Hand sanitizer (Tea tree oil)	14
8	Body cream (Tea tree oil)	16
9	Body powder (Tea tree oil)	18
10	Body spray (Tea tree oil)	20
11	Body mist (Tea tree oil)	22
12	Body oil (Tea tree oil)	24
13	Body butter (Tea tree oil)	26
14	Body scrub (Tea tree oil)	28
15	Body mask (Tea tree oil)	30

Serial Name	Remarks
Pharmaceutical product identification	<b>NeemCosme Club</b>
Name for administration	<b>NeemCosme Club</b>
Date of place used in the formulation	<b>NeemCosme Club</b>
Other ingredients in formulation (Name, quantity)	<b>Tea tree oil, Glycerin, Stearic acid, etc.</b>
Concentration of plant material used (Storage stability in % w/w, v/v, etc.)	<b>NeemCosme Club, Pharmaceutics Department</b>
Validation mentioned in label of product for which formulation?	<b>NeemCosme Club</b>
Name and address of the manufacturing company	<b>The Pharmacy Group College, NeemCosme Club</b>
Type of drug pack	<b>100% w/w</b>
Indication for use	<b>Apply on Cleaned Skin. Do not use on any open wound. Do not use on any part of the body that is irritated or inflamed. Use on the face, neck, and chest. Do not use on the face before making skin contact.</b>
Uses	<b>Reduce itching, Reduce skin dryness, Improve skin tone, Strengthen hair, Reduce dandruff, Improve skin texture, Control acne, etc.</b>
Photo of Drug Product	

Page: 1 of 19 | Words: 2,533 | English (India) | 14:50 06-08-2021



## Survey on Ashwagandha formulation (Gr. I Roll No. 43-47)

Group I (43-47) Ashwagandha - Microsoft Word

Home Insert Page Layout References Mailings Review View

Clipboard Font Paragraph Styles

Brand Name	Details Ashwagandha
<p><b>Pharmaceutical Product Classification</b></p> <p>Form: 3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Form of presentation</b></p> <p>Form: 3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Composition and its formulation</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Composition of plant material used</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Extraction method used in the product for which</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Yield and addition of excipients (quantity)</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Type of packaging</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Storage condition</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Other</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p>	<p><b>Brand Name</b></p> <p><b>Pharmaceutical Product Classification</b></p> <p><b>Form of presentation</b></p> <p><b>Composition and its formulation</b></p> <p><b>Composition of plant material used</b></p> <p><b>Extraction method used in the product for which</b></p> <p><b>Yield and addition of excipients (quantity)</b></p> <p><b>Type of packaging</b></p> <p><b>Storage condition</b></p> <p><b>Other</b></p>

Page: 1 of 19 | Words: 0 | English (India) | 14:50 | 06-08-2021

## Survey on Shatavari formulation (Gr. D Roll No. 16- 21)

shatavari survey report (1) [Compatibility Mode] - Microsoft Word (Product Activation Failed)

File Home Insert Page Layout References Mailings Review View Design Layout

Clipboard Font Paragraph Styles

Brand Name	Details Shatavari
<p><b>Pharmaceutical Product Classification</b></p> <p>Form: 3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Form of presentation</b></p> <p>Form: 3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Composition and its formulation</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Composition of plant material used</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Extraction method used in the product for which</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Yield and addition of excipients (quantity)</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Type of packaging</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Storage condition</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p> <p><b>Other</b></p> <p>3x3 jugular Red Bull Soft Plastic use in 4mg tablet in 4mg or 8mg</p>	<p><b>Brand Name</b></p> <p><b>Pharmaceutical Product Classification</b></p> <p><b>Form of presentation</b></p> <p><b>Composition and its formulation</b></p> <p><b>Composition of plant material used</b></p> <p><b>Extraction method used in the product for which</b></p> <p><b>Yield and addition of excipients (quantity)</b></p> <p><b>Type of packaging</b></p> <p><b>Storage condition</b></p> <p><b>Other</b></p>

Page: 1 of 23 | Words: 3,313 | English (U.S.) | 15:17



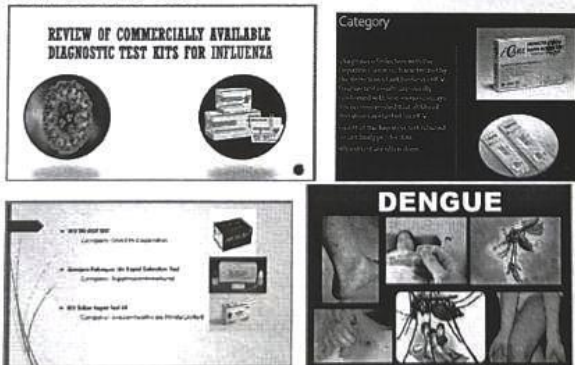
JSPM's

Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028.

ACTIVITY REPORT 2020-21

1. **Theme of Activity:** Review of commercially available diagnostic test kits for selected diseases/ disorders.
2. **Date & venue:** 02/02/to 15/02/2021 , students located at their residence
3. **Mode of Activity:** Online mode.
4. **Description of activity:** As an extension activity under the Club Analytica a techno market survey of the commercially available diagnostic kits for a few selected diseases and disorders was conducted by the students of S.Y.B.Pharm. For this , the teacher coordinator prepared and communicated a schedule with allotted areas and groups of students and student coordinator for undertaking this activity. The students followed a questionnaire for compilation and segregation of data obtained from survey and prepared an inference sheet.
5. **Number of students participated:** 63 (Groups 12).  
**Outcome of activity:** It was a group activity with the students not in physical vicinity . It helped students to get to know the market of diagnostic kits, manufacturers, the literature available on such kits. It also helped them to learn about survey, interpretation of findings of survey. Students prepared comprehensive reviews on commercially available diagnostic test kits for selected diseases/ disorders.

Few screenshots:



Activity Coordinators: Mr.B.M.Firake,Ms. N.N.Hingane

*Vepalnis*  
Principal  
**PRINCIPAL**  
Jayawantrao Sawant  
College Of Pharmacy & Research  
Hadapsar, Pune -411 028

JSPM's  
Jayawantrao Sawant College of Pharmacy and Research, Hadapsar, Pune-411028.  
ACTIVITY REPORT 2020-21

6. **Title of Activity:** Survey on formulations of cosmetics/cosmeceuticals containing raw materials from mineral origin

**Date & venue:** 01/06/2021 to 14/06/2021. Online mode and ZOOM

7. **Number of students participated:** 75

8. **Description of activity:** All Second year students participated in the survey activity. The students were divided into groups as Group A to Group K with about 6 students in each group. An online survey based on **formulations of cosmetics/cosmeceuticals containing raw materials from mineral origin** was assigned to each group. Each group was allotted different material from mineral origin that is used as raw material for formulations of cosmetics/cosmeceuticals. The activity was restricted to online survey only Due to COVID-19 pandemic restrictions. The students were given orientation for this activity before the survey and following points were discussed in the same.

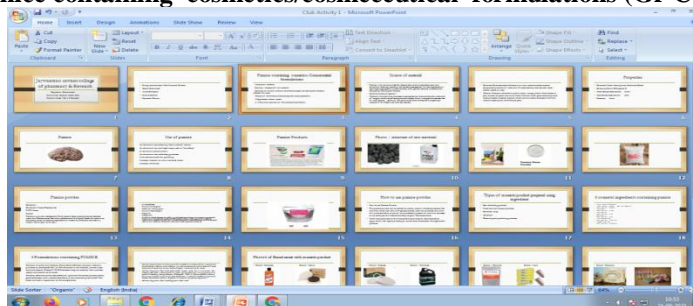
- Biological source of material
- Photo/structure of raw material
- Photos with Brand name of cosmetic product containing the material selected for study
- Types of cosmetic products prepared using the ingredient
- Applications /claims made
- Name and address of the manufacturing company

9. **Outcome of activity:** Currently herbal cosmetics and cosmeceuticals is the emerging and trending field. The students were involved in participatory activity for upgrade their knowledge related to herbal cosmetics and cosmeceuticals. Also it served them an opportunity to explore themselves. Ample of information was gathered for about 11 different mineral origin raw material and their formulation which can be used by all the students in future. All the groups submitted their report in systematic format .

**Staff coordinator:** Ms. Barangule S. P. Asst. Professor of Pharmaceutics

**Few Screenshots of reports submitted by the students**

**Survey on pumice containing cosmetics/cosmeceutical formulations (Gr C Roll no. 13-18)**

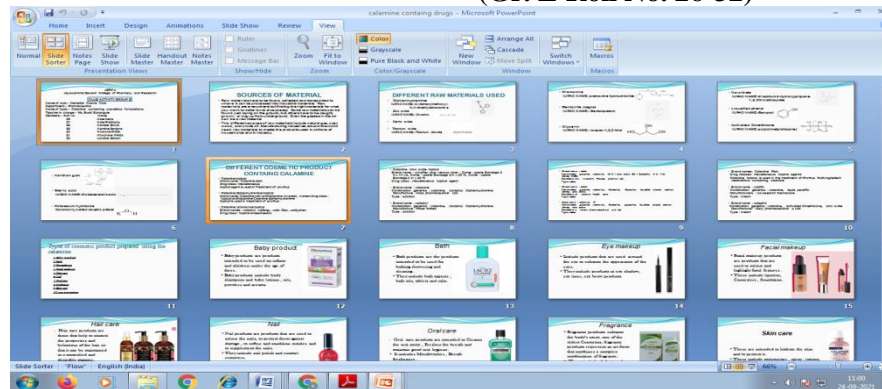


**Title of Activity:** Survey on formulations of cosmetics/cosmeceuticals containing raw materials from mineral origin

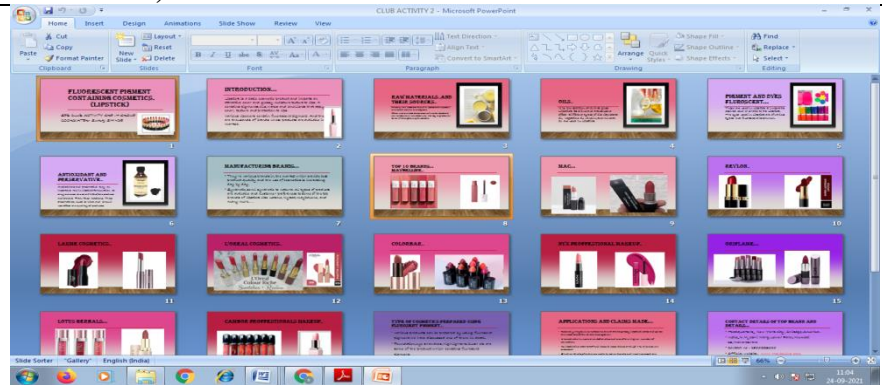
**Survey on talc containing cosmetics/cosmeceutical formulations (Gr. A Roll No. 01-06)**



**Survey on calamine containing cosmetics/cosmeceutical formulations (Gr. E Roll No. 26-32)**



**Survey on fluorescent pigment containing cosmetics/cosmeceutical formulations (Gr. H Roll No. 47- 54)**



# **REMEDIAL LEARNING**

**SAVITRIBAI PHULE PUNE UNIVERSITY**

**FACULTY OF SCIENCE AND TECHNOLOGY**



**RULES & SYLLABUS**

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE  
(EFFECTIVE FROM ACADEMIC YEAR 2018-2019)**





### 9. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

**Table-I: Course of study for semester I**

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1
BP112RBP	Remedial Biology – Practical*	2	-	1
<b>Total</b>		<b>32/34<sup>5</sup>/36<sup>6</sup></b>	<b>4</b>	<b>27/29<sup>5</sup>/30<sup>6</sup></b>

<sup>6</sup>Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

<sup>5</sup>Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

\* Non University Examination (NUE)



## **PROJECT BASED LEARNING METHODS FOR POST GRADUATE PROJECTS**

Badole Someshwar Nagnath	Pharmaceutics	Mr K. G. Albhar	Development and evaluation of tablet formulation for prolonged delivery of anti-inflammatory drug	2019	2021
Bendkale Suraj Hanumant	Pharmaceutics	Mr K.R. Bobe	Formulation and evaluation of topical polyherbal cream for mention disease	2019	2021
Cherekar Kaustubha Bharat	Pharmaceutics	Ms S. P. Dhamane	Formulation and evaluation of proteinbased nutraceutical confectionery products	2019	2021
Jadhav Rohit Devidas	Pharmaceutics	Mr N. K. Mogal	Formulation and evaluation of Herbal lip balm from pigment of marigold powder ( lutein )	2019	2021
Jagtap Mayur Madhukar	Pharmaceutics	Mr K. G. Albhar	Formulation of novel vesicular delivery system of antibacterial active	2019	2021
Kabra Nikhil Ramprasad	Pharmaceutics	Mr K. G. Albhar	Formulation of solubilized drug delivery system using particle engineering techniques	2019	2021
Kambale Pratiksha Uttam	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation of topical delivery systems for management of striae distensae	2019	2021
Kumbhar Priyanka Balkrishna	Pharmaceutics	Mr N. K. Mogal	Formulation and evaluation of medicated nail lacquer for the treatment of	2019	2021
Marathe Pooja Chandrakant	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation antifungal agent for the treatment of chronic suppurative otitis media	2019	2021
Pachpule Sujit Shivaji	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation of topical delivery system for the treatment of insect bite.	2019	2021
Pansare Yogita Ganesh	Pharmaceutics	Ms S. P. Dhamane	Formulation and evaluation of novel delivery system for treatment of dry eye syndrome	2019	2021
Jagtap Mayur Madhukar	Pharmaceutics	Mr K. G. Albhar	Formulation of novel vesicular delivery system of antibacterial active	2019	2021
Kabra Nikhil Ramprasad	Pharmaceutics	Mr K. G. Albhar	Formulation of solubilized drug delivery system using particle engineering techniques	2019	2021
Kambale Pratiksha Uttam	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation of topical delivery systems for management of striae distensae	2019	2021
Kumbhar Priyanka Balkrishna	Pharmaceutics	Mr N. K. Mogal	Formulation and evaluation of medicated nail lacquer for the treatment of	2019	2021
Marathe Pooja Chandrakant	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation antifungal agent for the treatment of chronic suppurative otitis media	2019	2021
Pachpule Sujit Shivaji	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation of topical delivery system for the treatment of insect bite.	2019	2021
Pansare Yogita Ganesh	Pharmaceutics	Ms S. P. Dhamane	Formulation and evaluation of novel delivery system for treatment of dry eye syndrome	2019	2021
Salunke Ajay Bharat	Pharmaceutics	Ms S. P. Dhamane	Design and casting of modified textile based face mask	2019	2021
Vaishnav Shraddha Jagdish	Pharmaceutics	Mr K.R. Bobe	Formulation and evaluation of fast dissolving buccal film for delivery of antihistaminic drug	2019	2021
Waghmode Snehal Dnyaneshwar	Pharmaceutics	Mr N. K. Mogal	Formulation and evaluation of cream for the treatment of acne	2019	2021
Zarkar Dhanashree Rajdutta	Pharmaceutics	Dr V.V. Potnis	Formulation and evaluation of topical delivery system for management of wound of diabetic foot.	2019	2021

