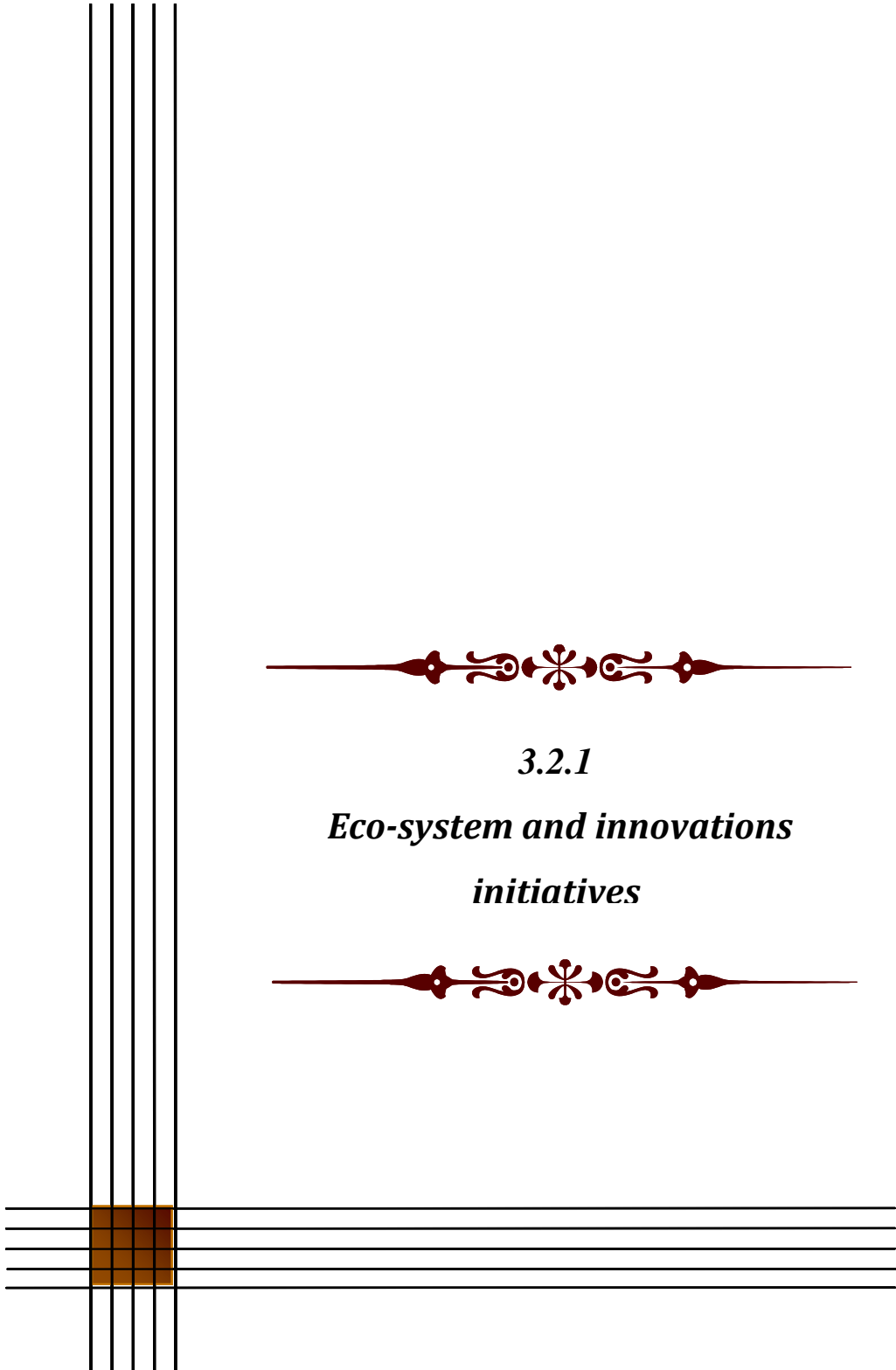




3.2.1

***Eco-system and innovations
initiatives***



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

INNOVATION ECOSYSTEM

The institution instils, promotes and inculcates the spirit of innovation and unquenchable thirst for knowledge in the young minds through academic, research and extension activities. The main objective of the Eco-System for innovation is to promote creativity and innovation among students, faculty members and facilitate development of innovative systems, processes, products, technologies and services for the benefit of the society. All required facilities are provided and guidance is extended to the students & faculty members. They are encouraged for active involvement in the application of Technology for societal needs. Necessary support is provided for Documentation, Publication of Research Papers and also for obtaining patents.

The Innovation Eco System works through the following facilities.

- ***Institution Innovation Council*** approved by MHRD IC - promotional activities through various programmes.
- ***Innovation and Start-Up Cell*** as per the norms of Centre for Innovation, Incubation and Linkages under Savitribai Phule Pune University, Pune - for enhancing research activities
- ***Research and Development Cell-*** To promote research activities amongst faculty members and students

INSTITUTION INNOVATION COUNCIL

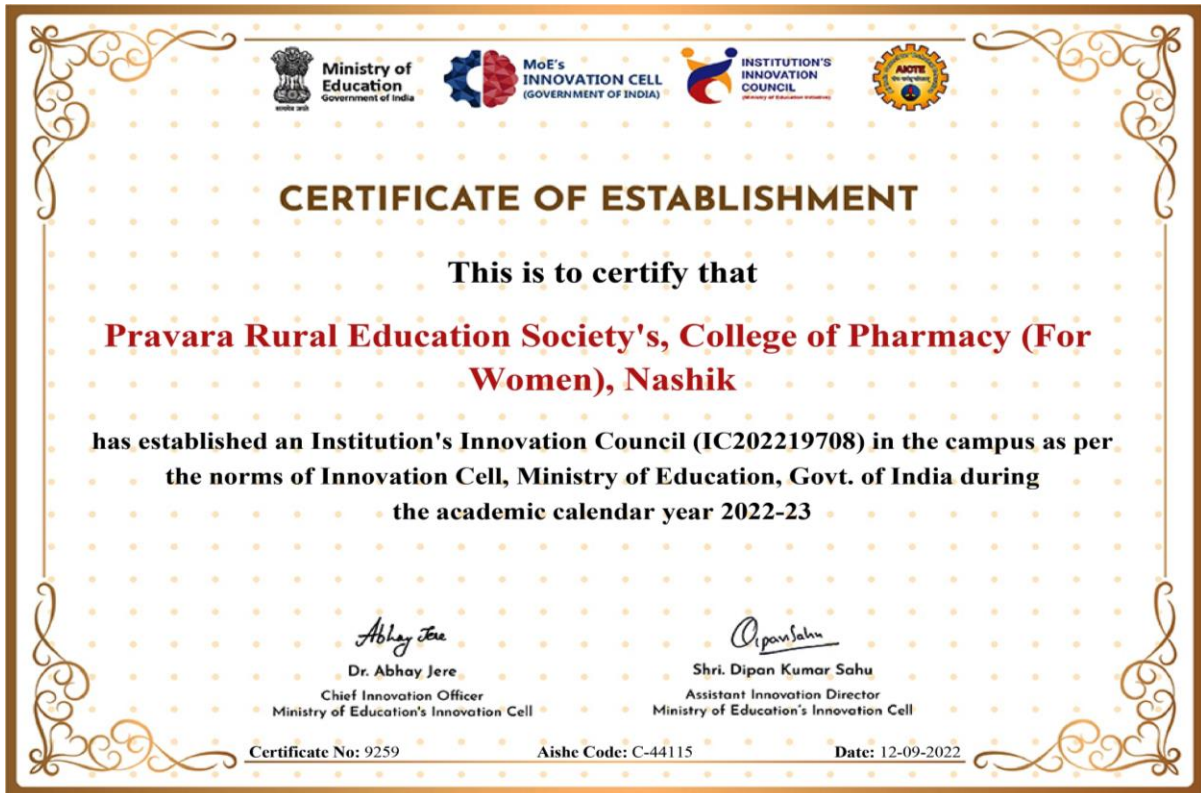
The Institution Innovation Council was started in 2022 at the initiative of the Innovation Cell of Ministry of Human Resource Development, Government of India. The Council includes members from students, teachers, industry and Patent expert. A number of activities are conducted through this Council to motivate and promote creativity and innovation among students and faculty members as given below.

- ✓ Sessions by Industry Leaders
- ✓ Workshops on IPR and entrepreneurship and innovation
- ✓ Innovation challenge and research competition
- ✓ Field visit

The constitution of Institution Innovation Council

Sr. No.	Name of Member	Member Type (Teaching/ Nonteaching/ Student/ External Expert)	Key Role/ Position assigned in IIC
1.	Dr. Charushila J. Bhangale	Principal	President
2.	Dr. Sachin B. Somwanshi	Associate Professor	Convener, IPR Activity Coordinator
3.	Dr. Kiran B. Kotade	Associate Professor	Innovation Activity, NIRF Coordinator
4.	Dr. Vinayak M. Gaware	Assistant Professor	ARIIA Coordinator
5.	Mr. Mayur T. Gaikar	Assistant Professor	Start-up Activity Coordinator
6.	Mr. Vikas D. Kunde	Assistant Professor	Internship Activity Coordinator
7.	Mrs. Kaveri T. Vaditake	Assistant Professor	Social Media Coordinator
8.	Mrs. Roma M. Sharma	Assistant Professor	Member
9.	Mr. Sunil Magar	Office Superintendent	Member
10.	Sawant Ankita Dattatraya	Student	Innovation Coordinator
11.	Kote Sayali Nilesh	Student	IPR Coordinator
12.	Anisha Nitin Pawar	Student	Start up Coordinator
13.	Khule Kasturi Ravindra	Student	Internship Coordinator
14.	Vatpade Tanavi Santosh	Student	Social Media Coordinator
15.	Chavan Sakshi Balu	Student	Member
16.	Mr. Narendra Hegde	External Expert	Member (Industry Association)
17.	Prof. Raosaheb Y. Ghegade	External Expert	Member (Patent expert)
18.	Ms. Sunita P. Khapare	External Expert	Member (Start up/ Alumni Entrepreneur)





The IIC secured 1 Star Ratings during 22-23 assessment done by MoE Innovation Cell

INNOVATION AND START-UP CELL

The institution also formed Innovation and Start-up Cell as per the norms of Centre for Innovation, Incubation and Linkages at Savitribai Phule Pune University, Pune aimed to provide guidelines for developing entrepreneurial agenda, managing Intellectual Property Rights (IPR) ownership, technology licensing and equity sharing in Start-ups or enterprises established by faculty and students and also a guiding framework to envision an educational system oriented towards start-ups and entrepreneurship opportunities for student and faculties.

Aims and objectives of Innovation and Start-up Cell:

- ✓ To inculcate the spirit of entrepreneurship among faculty and students.
- ✓ To establish links with various R&D organizations and funding agencies for the project ideas of students and faculty.
- ✓ To explore and identify the opportunities of interaction with industry.
- ✓ To motivate Students and faculty to start their own ventures as start-ups.

The constitution of Innovation and Start-up Cell

Sr. No	Name of Staff	Designation	Contact Number
1	Dr. Charushila J. Bhangale	Chairman	9011140176
2	Dr. Sachin B. Somwanshi	Coordinator	9975101498
3	Ms. Gare Anushka	Member	9823880224
4	Ms. Chavan Sakshi	Member	7498536740
5	Ms. Chavan Sakshi	Member	7498536740
6	Ms. Joshi Ketki	Member	8080154193
7	Ms. Ugale Kiran	Member	8605303822
8	Mr. Someshwar Navhat	Invitee Member	8888049995
9	Mr. Sharad Dubay	Invitee Member	9860552078



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RESEARCH AND DEVELOPMENT CELL

Through the Research and Development Cell, the research activities of the under graduate, post graduate and staffs in pharmacy are monitored and addressed.

The constitution of Research and Development Cell

Sr. No	Name of faculty	Designation
1.	Dr. Charushila J. Bhangale	Principal and Chairman
2.	Dr. Sachin B. Somwanshi	Academic Research Co-ordinator
3.	Dr. Kiran B. Kotade	Member
4.	Mrs. Roma M. Sharma	Member
5.	Mr. Balu T. Jagtap	Member

Objectives of Research and Development Cell:

- To promote and facilitate research activities amongst the teachers and students.
- To foster an environment conducive for research.
- To encourage teachers and students to participate in research projects to improve their technical skills and knowledge.
- To assist teachers in obtaining research and other grants from various funding bodies.
- Guidance for publication of papers in reputed journals.

Recommendations:

- Recommend the teachers and students to increase their number of research publications.
- Recommend to undertake minor and major research projects from various funding agencies.
- Recommend funds for research from various funding agencies.
- Recommend to organize more number of guest lectures, seminar and conferences.

Impact of Recommendations:

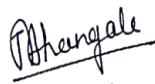
- As a result of recommendations from R&D Cell, the number of projects suited up. The teachers and students started minor research projects so there is increase in the publication by the teachers.
- Students participated in different seminars and conferences and presenting their work.
- Teachers and students took initiation to enroll themselves in more number of professional societies.



THE CONSTITUTION OF DIFFERENT COMMITTEES

Sr. No	Name of Staff	Designation
Training and Placement cell		
1	Mr. V. D. Kunde	Coordinator
2	Mr. R. D. Khaire	Member
3	Ms. R. M. Sharma	Member
4	Ms. K. K. Kudale	Member
Industry Institution interaction cell		
1	Dr. A. T. Khadse	Coordinator
2	Dr. K. B. Kotade	Member
3	Dr. V. M. Gaware	Member
4	Mr. V. D. Kunde	Member
Entrepreneur Development Cell		
1	Dr. K. B. Kotade	Coordinator
2	Ms. K. T. Vaditake	Member
3	Mrs. S. N. Bhandare	Member
4	Dr. V. M. Gaware	Member
Career Guidance Cell		
1	Mr. R. D. Khaire	Coordinator
2	Mr. B. T. Jagtap	Member
3	Mrs. S. N. Bhandare	Member
4	Mr. M. T. Gaikar	Member





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SUMMARY OF ACTIVITIES UNDER INNOVATION ECOSYSTEM:

1. Facilities available: Research infrastructure
2. Subscription of Journal/ Library Membership
3. Animal House Facility
4. Various Events and Competition under IIC, Innovative & Start-Up Cell, R & D Cell
5. Other Events_Seminar/Workshop/Conference/Guest sessions organized at college
6. Mentors
7. Research Publications
8. Seminars/ Workshops/ Conferences attended by Teachers
9. MOU's/Collaboration
10. Certificate programs





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1. FACILITIES AVAILABLE: RESEARCH INFRASTRUCTURE

List of Sophisticated Instruments/ Equipments Available

Sr. No.	Name of Instrument
1	High performance liquid chromatography
2	UV visible spectrophotometer
3	FTIR
4	Rotary tablet compression machine
5	Dissolution-disintegration test apparatus
6	Spray dryer
7	Fluid Bed Processor nano
8	Spheronizer
9	Extruder
10	BOD incubator
11	Stability chamber
12	Rheometer
13	Centrifuge




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2. SUBSCRIPTION OF JOURNAL/ LIBRARY MEMBERSHIP:

Online National/International Journals are subscribed for promoting research activities. College has subscribed for membership of British Library, and Jaykar Library SPPU giving access to knowledge resource.

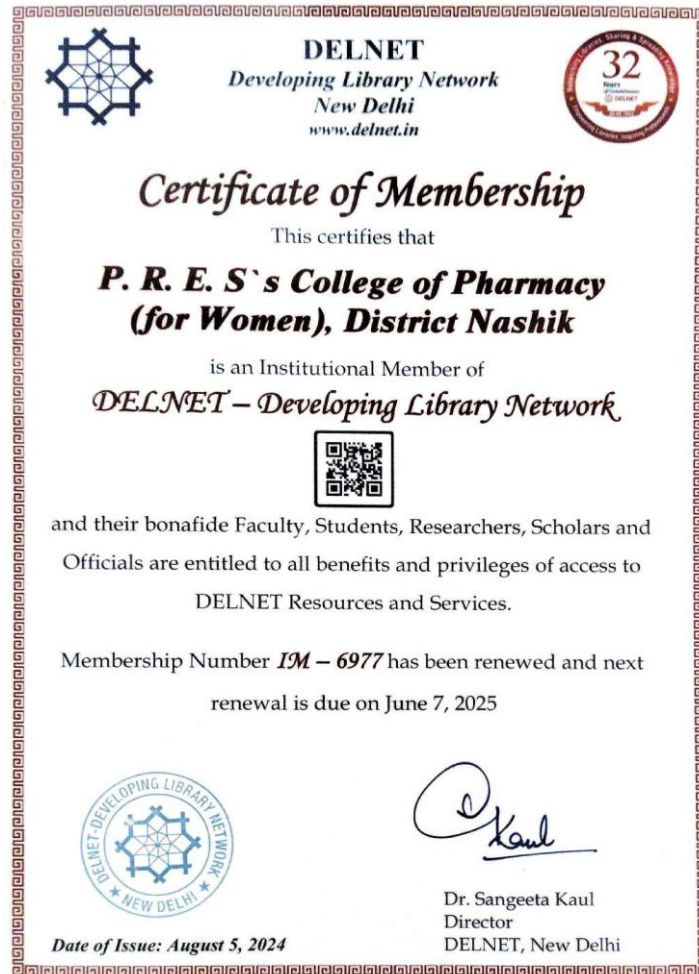
The college has an E-Library with membership/registration for Following:

1. DELNET
2. NPTEL
3. Jaykar library, SPPU, Pune
4. e-PG Pathshala
5. Swayam
6. National Digital Library of India
7. E- Shodhaganga

1. DELNET

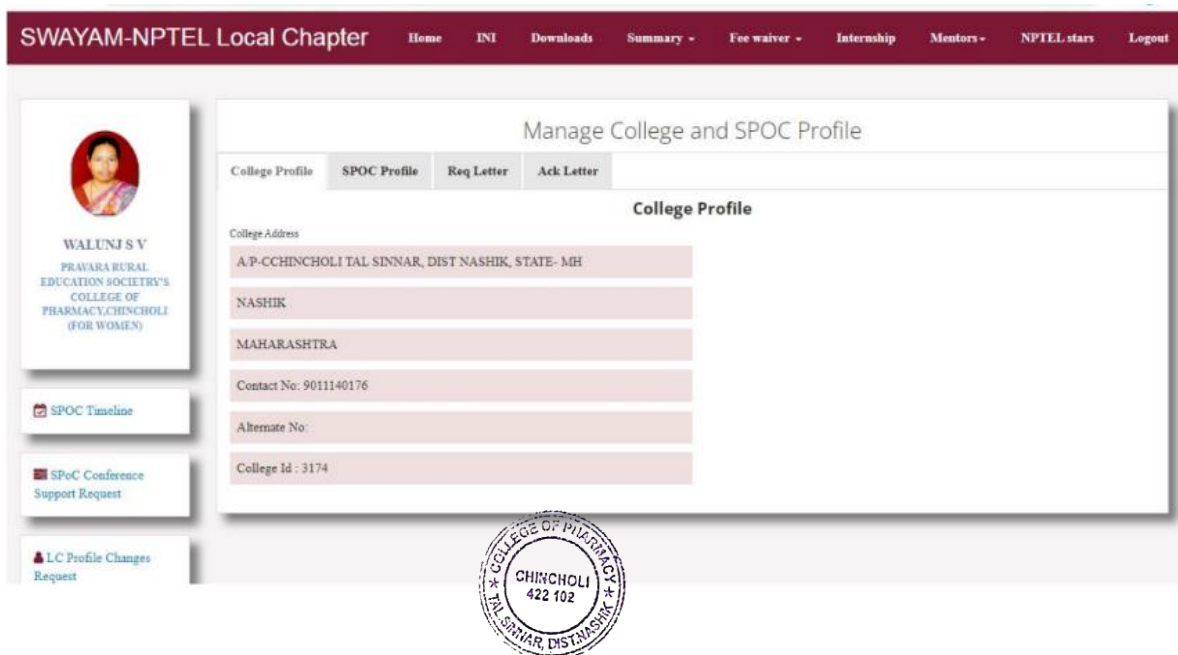
DELNET has been established with the prime objective of promoting resource sharing among the libraries through the development of a network of libraries.





Screenshot of User Interface of Delnet

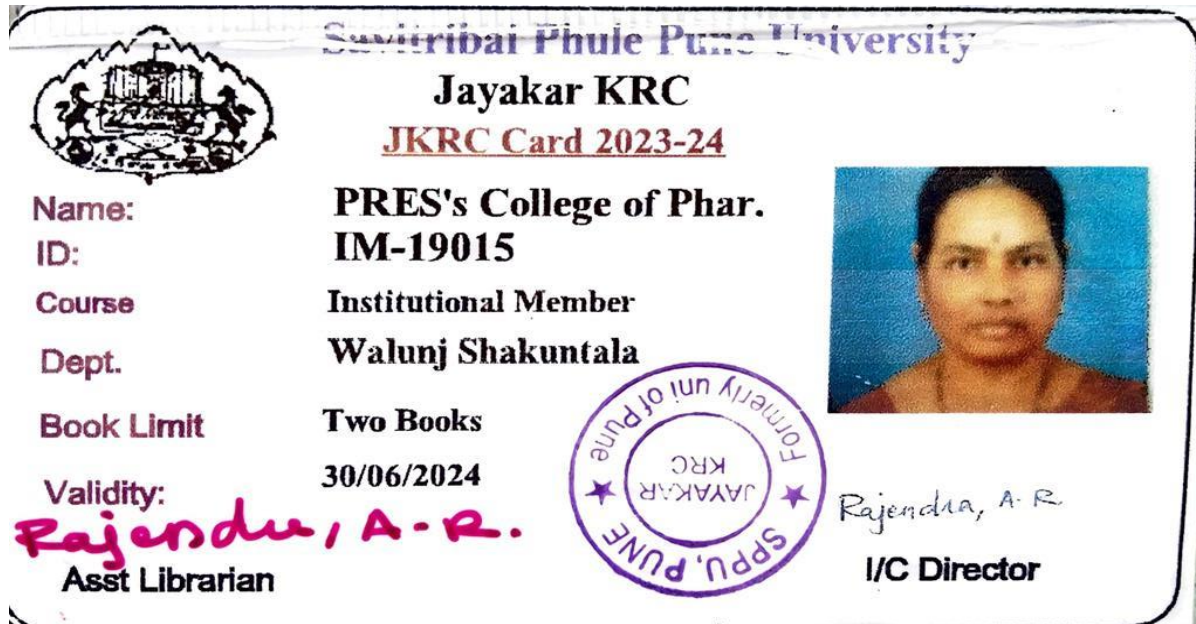
2. NPTEL



3.2.1 Ecosystem and Innovation Initiatives

3. Jaykar library, SPPU, Pune

Institute has membership of Jaykar Library, Savitribai Phule Pune University, Pune.



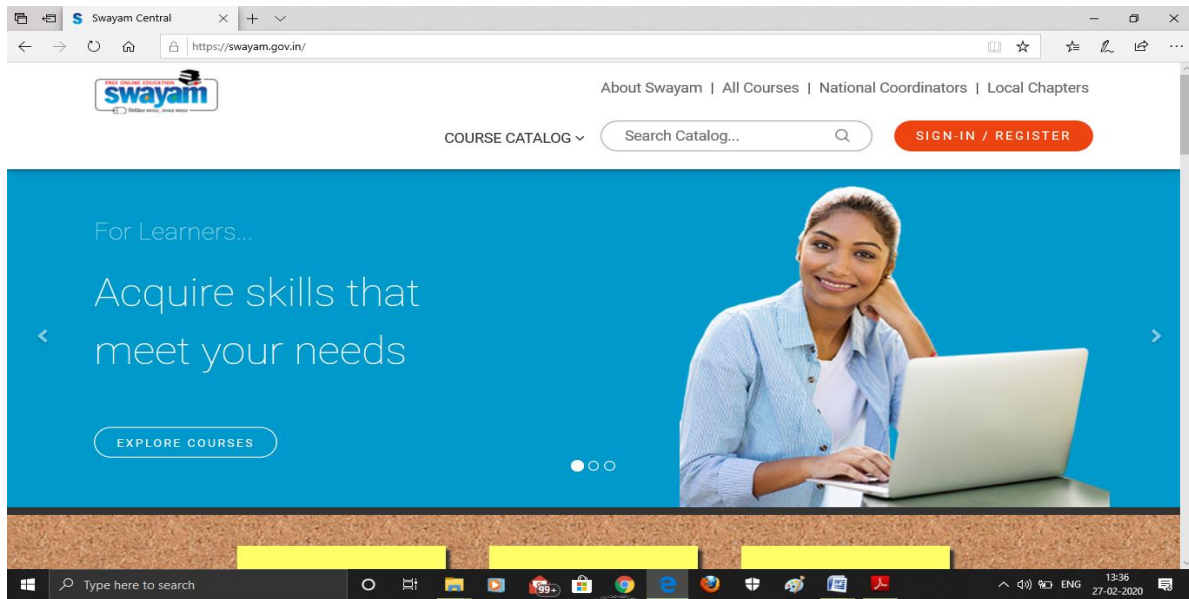
4. Pg Pathshala



Screenshot of User Interface of Pg-Pathshala



5. SWAYAM



Screenshot of User Interface of Swayam

6. National Digital Library of India

Ministry of Human Resource Development (MHRD) under its National Mission on Education through Information and Communication Technology (NMEICT) has initiated the National Digital Library of India (NDL India) pilot project to develop a framework of virtual repository of learning resources with a single-window search facility.



Screenshot of User Interface of NDL

3.2.1 Ecosystem and Innovation Initiatives

7. E- Shodhaganga

The main objective of the e- Shodhaganga: Consortia for Higher Education E-Resources is to provide access to qualitative electronic resources including full-text, bibliographic and factual databases to academic institutions at a lower rates of subscription.

[<https://shodhganga.inflibnet.ac.in/>]



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3. ANIMAL HOUSE FACILITY

The college has an Institutional Animal Ethics (IAEC) Committee to monitor matters related to the ethics of inclusion of animals in research. The committee has been constituted as per the norms of Committee for the Control and Supervision of Experiments on Animals (CCSEA) and IAEC guidelines. The details of which are given below:

CCSEA Registration No.: 1345/PO/Re/S/10/CPCSEA

COMPOSITION OF IAEC

Sr. No.	Name of the member	Designation
1.	Dr. Charushila J. Bhangale	Chairman, Biological Scientist
2.	Dr. Chandrashekhar Upasani	CPCSEA nominee
3.	Dr. Pavan B. Udavant	Link Nominee
4.	Dr. Ziyaurrahman A.R.	Scientist from outside the institute
5.	Dr. Sujata Magdum	CPCSEA socially aware nominee
6.	Dr. Kiran B. Kotade	Member Secretary & In charge of Animal House
7.	Mrs. Sangita N. Bhandare	Scientist from different discipline
9.	Dr. Sachin B. Somwanshi	Scientist from different discipline
10.	Dr. Kushal Shinde	Veterinarian



Bhangale
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No. 25/455/2009-AWD
Government of India
Ministry of Fisheries, Animal Husbandry and Dairying
Department of Animal Husbandry and Dairying
O/o Committee for the purpose of Control and Supervision of Experiments on Animals
(CPCSEA)

Delhi Milk Scheme Complex,
Shadipur, Delhi – 110008
Date: 30.06.2022

To,

Dr. Bhangale Charushila Jayant, Chairperson, IAEC
Pravara Rural Education Society's College of Pharmacy (for Women) Chincholi,
Sinnar, Nashik - 422101, Maharashtra
Email: bhangale100@rediffmail.com
Mobile: 9011140176

Subject: Renewal of Registration and Reconstitution of Institutional Animals Ethics
Committee (IAEC)-regarding

Madam,

The registration of Animal House Facility of your establishment with CPCSEA has been **renewed for a period of five years from the date of issue of this letter.**

2. The new registration number of Animal House Facility of your establishment is **1345/PO/Re/S/10/CPCSEA for Research for Education purpose on small animals.** Henceforth, the new registration number may kindly be quoted in all your future correspondence with this Office.

3. The CPCSEA has accepted the following members recommended by the establishment.

Name of the IAEC Members	Designation in IAEC
1) Dr. Bhangale Charushila Jayant	Biological Scientist, Chairperson
2) Mr. Kotade Kiran Babasaheb	Scientist Incharge of Animal House Facility, Member Secretary
3) Mrs. Bhandare Sangita Nitin	Scientist from different biological discipline
4) Dr. Somwanshi Sachin Balkrishna	Scientist from different biological discipline
5) Dr. Shinde Kushal	Veterinarian

4. CPCSEA hereby nominates the following members to the Institutional Animals Ethics Committee (IAEC) of your establishment:

Details of Nominee(s)	Nominated as
1) Dr. Chandrashekhar Upasani Row House NO. 7, 'Tejas', Kashika Nagar, Bhujbal Farm, Mumbai-Agra Road, Nashik - 423009, Maharashtra Contact No :9822112007 Email :cdupasani@rediffmail.com	Main Nominee
2) Dr. Pavan B. Udavant Associate Professor, MET's Institute of Pharmacy, Bhujbal Knowledge City, Adgaon, Nashik – 422101, Maharashtra Contact No :9325173818 Email :pavanudavant@gmail.com	Link Nominee



Contd...

-2-

3) Ziyaurrahman A.R. 91, mangal war ward, Malegaon, dist Nashik – 423 203, MS Contact No :097643 89988 Email :rahman92@rediffmail.com	Scientist from outside the Institute
4) Dr. Sujata Magdum Flat No. 10, Gurusheh Apts., Opp. Vidyut Bhavan, Nashik Road 422101, Maharashtra Contact No :9970053926 Email :sujata_magdum@yahoo.com	Socially Aware Nominee

(Please note that any change in IAEC members can be made only with prior approval of CPCSEA.)

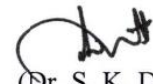
5. The IAEC is valid for a period of five years and is coterminous with renewed period of registration. IAEC is required to be reconstituted at the time of renewal of registration as per CPCSEA guidelines.

6. You are requested to convene the meeting of the re-constituted IAEC within a period of 30 days and upload the same on the website of the CPCSEA.

7. It is stated that only above approved IAEC members shall sign, with date, on the attendance sheet of the IAEC meetings, and decisions will be taken only in meetings where quorum is complete. The quorum for holding IAEC meeting is six (6), and Main Nominee, Scientist from outside of the Institute and Socially aware must be present in such meetings. Link Nominee can attend in case main nominee conveys his unavailability in writing to the chairman IAEC. Any decision taken in the meetings of IAEC without quorum shall be considered invalid.

8. It is also to inform you that before commencing any research on large animals you are required to send research protocols with due recommendation of IAEC to CPCSEA for further approval (procedure for submission of Research Protocols is available on the website of CPCSEA).

Yours Sincerely,




(Dr. S. K. Dutta)
Member Secretary (CPCSEA)

Copy for necessary action to: Nominees of CPCSEA.

The Main Nominee is requested to ensure that the IAEC meetings are held regularly as stipulated in the SOP of CPCSEA and submit the Annual Inspection Reports of the Animal House Facility regularly on the Website of CPCSEA.




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4. VARIOUS EVENTS AND COMPETITIONS UNDER INSTITUTE INNOVATION CELL, INNOVATION & START-UP CELL, R & D CELL

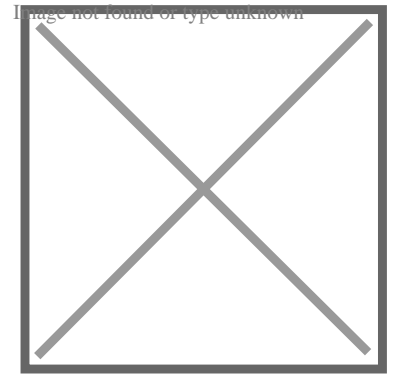
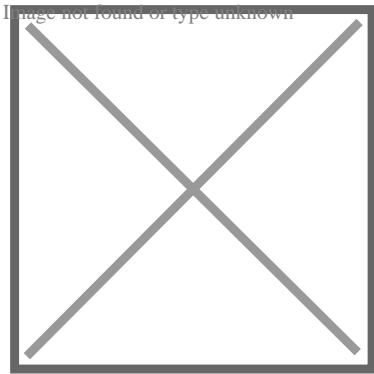
Sr. No	Name of the event	Date
1	Seminar on "Empowering Tomorrow's Leaders: Entrepreneurial Success & Personality Development for Students"	14-09-2023
2	National level online quiz on the Occasion of National Pharmacovigilance week-2023 on "Pharmacovigilance-Awareness about Adverse Drug Reactions (ADR)"	21-09-2023 to 23-09-2023
3	Workshop on "Kona Kona Shiksha-Funding Opportunity for Early Stage Entrepreneurs"	3-10-2023 to 4-10-2023
4	Celebration of "Vachan Prerna Din" and "Innovation Day"	19-10-2023
5	National level online Quiz on the Occasion of National Pollution Control Day under the theme "To Breathe Clean, Let's Go Green"	02-12-2023
6	Poster Presentation Competition on Innovations	04-12-2023
7	Entrepreneurship and Skills Development Guidance Viksit Bharat@2047 Ustav by Addressed by Hon'ble Narendra Modiji, Prime Minister of India	11-12-2023
8	Celebration of National Youth Day_National Youth Festival-2024	12-01-2024
9	Seminar on Achieving Problem-Solution fit & Product-Market fit	05-02-2024
10	Workshop on "Entrepreneurship skill, Attitude and Behaviour Development"	05-02-2024
11	Exposure and field visit for problem identification	07-02-2024 & 08-02-2024
12	Brainstorming session on "Understanding our Brain, Mind and Body"	10-02-2024
13	National Science Day Celebration 2024_Poster Presentation Competition_under the theme	28-02-2024

	“Indigenous Technologies for Vikasit Bharat”	
14	Expert Session on “Women Empowerment and Laws related to harassment at work place” on the occasion of International Women’s Day	09-03-2024
15	MIC Driven Activity_Guiding Framework for Creating and Engaging Trained Faculty and Student IIC Members, Innovation Ambassadors (IA) in IIC Institutions, and Rewarding Mechanisms for IAs	29-07-2024
16	MIC Driven Activity_Strengthening IIC Linkages with ATLS and SICs in Schools and the Framework for Providing Mentorship and Guidance	31-07-2024
17	MIC Driven Activity_Building the Pipeline of Quality Innovations and Startups in HEIs with Ecosystem Enablers by Creating and Managing YUKTI Innovation and IPR Repository (YIIR)	02-08-2024



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MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**MY STORY - MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR/START-UP
FOUNDER.**

OVERVIEW

Objective:

To inspire, educate, and equip students with the mindset and skills needed to become entrepreneurs

Benefit in terms of learning/Skill/Knowledge obtained:

Students get motivated to pursue entrepreneurial endeavors, driven by a renewed sense of purpose and ambition.

Academic Year:

2023-24

Program driven by:

IIC Calendar Activity



Month:

Program /Activity Name:

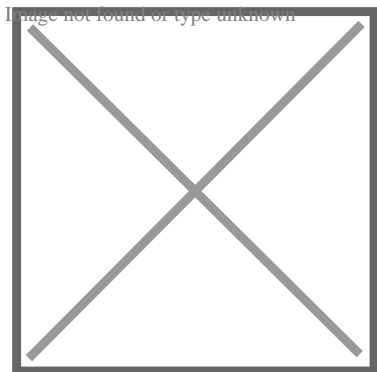
My Story - Motivational Session by Successful Entrepreneur/Start-up founder.

Program Type:	Other:
Level 1 - Expert Talk	null
Program Theme:	Other:
Entrepreneurship & Startup	NA
Date & Duration (Days):	External Participants, If any:
09/14/2023-09/14/2023-0	null
Student Participants:	Faculty Participants:
58	2
Expenditure Amount, If any:	Remark:
null	null

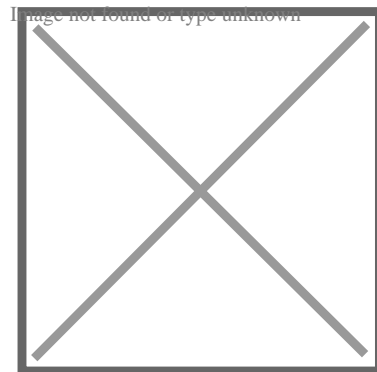
ATTACHMENTS

Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

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MOE'S INNOVATION CELL
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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**NATIONAL PHARMACOVIGILANCE WEEK-2023 UNDER THE THEME "BOOSTING PUBLIC
CONFIDENCE IN PHARMACOVIGILANCE"**

OVERVIEW

Objective:

To raise awareness about the importance of pharmacovigilance and its role in ensuring drug safety

Benefit in terms of learning/Skill/Knowledge obtained:

Participants got aware about the importance of pharmacovigilance and potential impact of ADRs on patient safety and public health

Academic Year:

2023-24

Program driven by:

Self-driven Activity

Month:

Program /Activity Name:

National Pharmacovigilance week-2023 under the theme “Boosting Public Confidence in Pharmacovigilance”

Program Type:

Level 2 - Competition

Other:

null

Program Theme:

Innovation & Design Thinking

Other:

NA

Date & Duration (Days):

09/21/2023-09/23/2023-2

External Participants, If any:

null

Student Participants:

100

Faculty Participants:

15

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



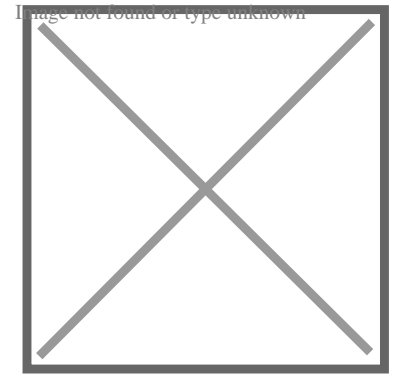
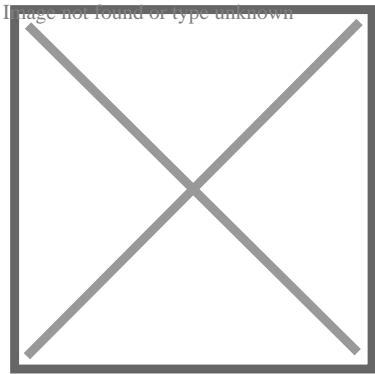
Photograph2:



Session plan, If any:

[View Report](#)

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**TRAINING PROGRAM ON “KONA KONA SHIKSHA-FUNDING OPPORTUNITY FOR EARLY
STAGE ENTREPRENEURS”**

OVERVIEW

Objective:

To educate and empower students with the knowledge and tools they need to secure funding.

Benefit in terms of learning/Skill/Knowledge obtained:

The program will empower students to take their ideas from concept to reality, contributing to a thriving entrepreneurial ecosystem.

Academic Year:

2023-24



Program driven by:

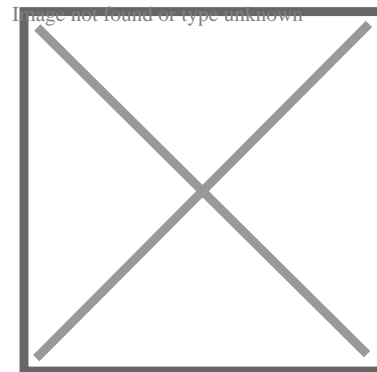
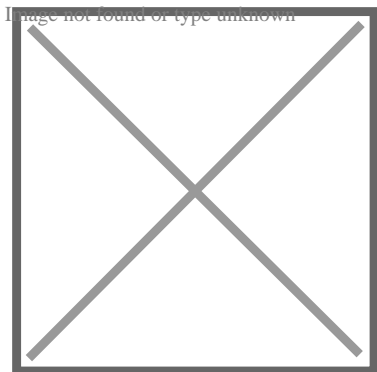
Self-driven Activity

Month:

Program /Activity Name:

Training Program on “Kona Kona Shiksha-Funding Opportunity for Early Stage Entrepreneurs”

Program Type:	Other:
Level 3 - Workshop	null
Program Theme:	Other:
Entrepreneurship & Startup	NA
Date & Duration (Days):	External Participants, If any:
10/03/2023-10/04/2023-1	null
Student Participants:	Faculty Participants:
74	8
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
INNOVATION DAY

OVERVIEW

Objective:

To showcasing the ingenuity and forward-thinking ideas of our students and faculty

Benefit in terms of learning/Skill/Knowledge obtained:

Encouraged to think creatively and explore innovative solutions to real-world problems, enhancing their ability to approach challenges from new views

Academic Year:

2023-24



Program driven by:

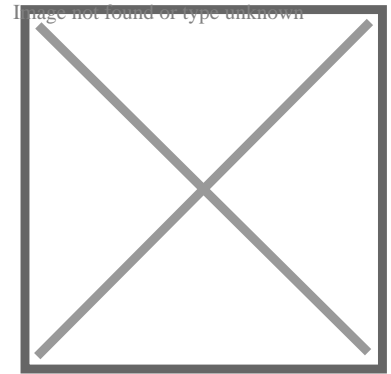
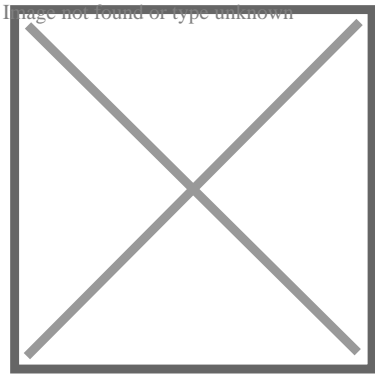
Celebrations

Month:

Program /Activity Name:

Innovation Day

Program Type:	Other:
Level 1 - Expert Talk	null
Program Theme:	Other:
Innovation & Design Thinking	NA
Date & Duration (Days):	External Participants, If any:
10/19/2023-10/19/2023-0	null
Student Participants:	Faculty Participants:
58	4
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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INSTITUTION'S INNOVATION COUNCIL

**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
NATIONAL POLLUTION CONTROL DAY

OVERVIEW

Objective:

educating the public, fostering engagement, and encouraging positive action towards environments

Benefit in terms of learning/Skill/Knowledge obtained:

Outcomes contribute to raising awareness but also encourage active participation and long-term engagement in environmental conservation efforts

Academic Year:

2023-24

Program driven by:

Celebrations



Month:

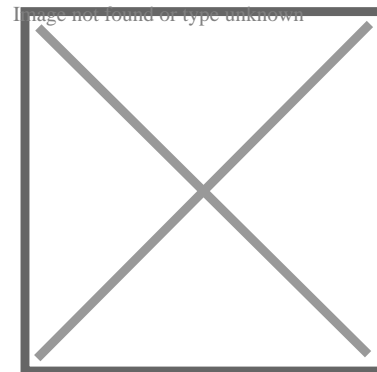
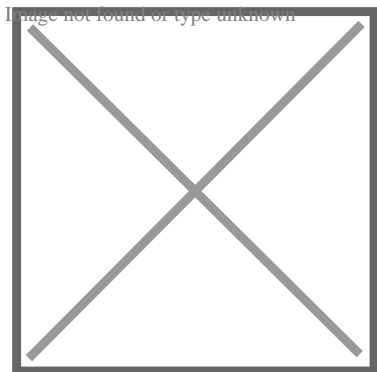
Program /Activity Name:

National Pollution Control Day

Program Type:

Other:

Level 4 - Challenges	null
Program Theme:	Other:
Innovation & Design Thinking	NA
Date & Duration (Days):	External Participants, If any:
12/02/2023-12/04/2023-2	null
Student Participants:	Faculty Participants:
100	5
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK (IC202219708)

MENTORING EVENT: DEMO DAY/EXHIBITION/POSTER PRESENTATION OF INNOVATIONS/PROTOTYPES & LINKAGE WITH INNOVATION AMBASSADORS/EXPERTS FOR MENTORSHIP SUPPORT

OVERVIEW

Objective:

To inspire and encourage participants to think outside the box and explore new solutions

Benefit in terms of learning/Skill/Knowledge obtained:

Contributes to the personal and professional growth of participants while fostering a collaborative environment that can lead to meaningful and impact

Academic Year:

2023-24

Program driven by:

IIC Calendar Activity

Month:

Program /Activity Name:

Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support

Program Type:

Level 1 - Mentoring Session

Other:

null

Program Theme:

Innovation & Design Thinking

Other:

NA

Date & Duration (Days):

12/04/2023-12/04/2023-0

External Participants, If any:

null

Student Participants:

32

Faculty Participants:

15

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



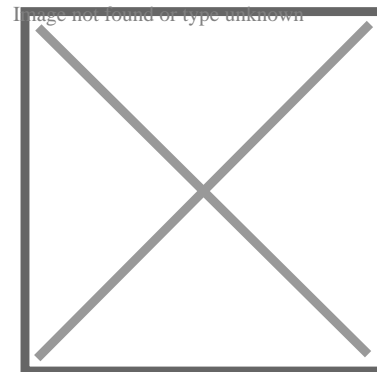
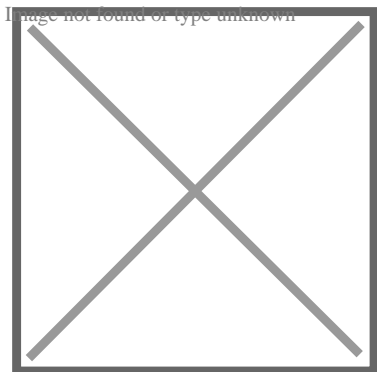
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Session plan, If any:

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**ORGANISE VIKSIT BHARAT@2047 UTSAV IN CAMPUS AND WATCH THE INAUGURAL
ADRESS BY HON'BLE PRIME MINISTER OF INDIA ON 11TH DEC. 2023**

OVERVIEW

Objective:

Aimed to unveil the ambitious vision for Viksit
Bharat@2047 in students

**Benefit in terms of learning/Skill/Knowledge
obtained:**

The students expressed a strong desire to see India
as a top-ranked nation globally.

Academic Year:

2023-24



Program driven by:

MIC driven Activity

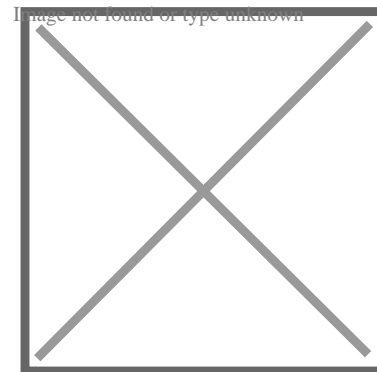
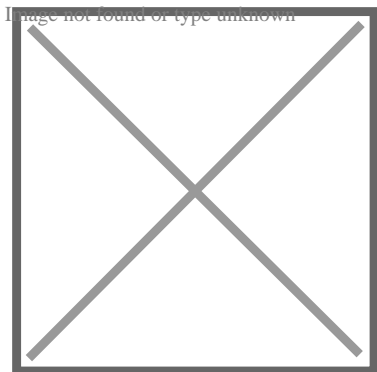
Month:

Program /Activity Name:

Organise Viksit Bharat@2047 Utsav in Campus
and Watch the Inaugural Adress by Hon'ble Prime
Minister of India on 11th Dec. 2023

Program Type:	Other:
Level 1 - Expert Talk	null
Program Theme:	Other:
Innovation & Design Thinking	NA
Date & Duration (Days):	External Participants, If any:
12/11/2023-12/11/2023-0	null
Student Participants:	Faculty Participants:
73	5
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
NATIONAL YOUTH DAY

OVERVIEW

Objective:

Encourage young people to present their talents, share ideas and focus on the positive aspects

Benefit in terms of learning/Skill/Knowledge obtained:

Several benefits, including fostering creativity, collaboration, and a deeper understanding of complex concepts.

Academic Year:

2023-24

Program driven by:

Celebrations



Month:

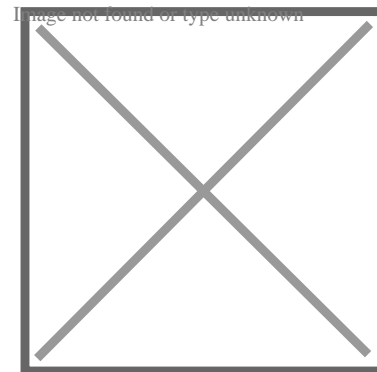
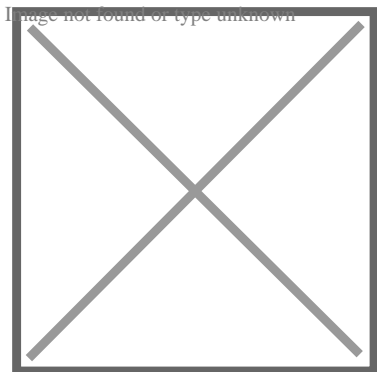
Program /Activity Name:

National Youth Day

Program Type:

Other:

Level 1 - Expert Talk	null
Program Theme:	Other:
Innovation & Design Thinking	NA
Date & Duration (Days):	External Participants, If any:
01/12/2024-08/13/2024-214	null
Student Participants:	Faculty Participants:
180	17
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

SESSION ON ACHIEVING PROBLEM-SOLUTION FIT & PRODUCT-MARKET FIT

OVERVIEW

Objective:

Introduce to the concept of problem-solution fit, identifying a real problem and developing solution

Benefit in terms of learning/Skill/Knowledge obtained:

Students gain a thorough understanding of market needs and dynamics, enabling them to identify real-world problems that require innovative solutions

Academic Year:

2023-24

Program driven by:

IIC Calendar Activity



Month:

Program /Activity Name:

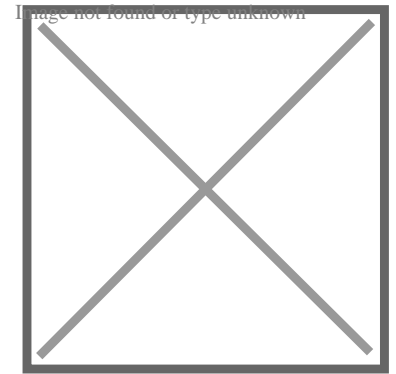
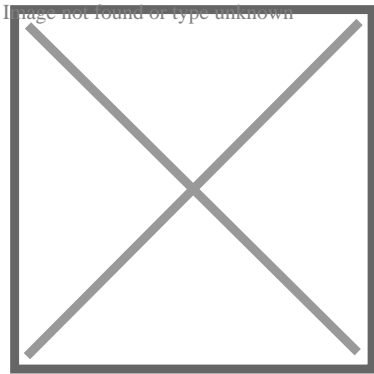
Session on Achieving Problem-Solution Fit & Product-Market Fit

Program Type:	Other:
Level 1 - Expert Talk	null
Program Theme:	Other:
Innovation & Design Thinking	NA
Date & Duration (Days):	External Participants, If any:
02/05/2024-02/05/2024-0	null
Student Participants:	Faculty Participants:
62	4
Expenditure Amount, If any:	Remark:
null	null

ATTACHMENTS

Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
**WORKSHOP ON ENTREPRENEURSHIP SKILL, ATTITUDE AND BEHAVIOUR
DEVELOPMENT**

OVERVIEW

Objective:

To motivate students towards entrepreneurship as it can create employment for the future generations

Benefit in terms of learning/Skill/Knowledge obtained:

Learned about the necessary aspects to start any start-up like Idea validation, business plan, Market research, compliances, Govt. Schemes, etc

Academic Year:

2023-24



Program driven by:

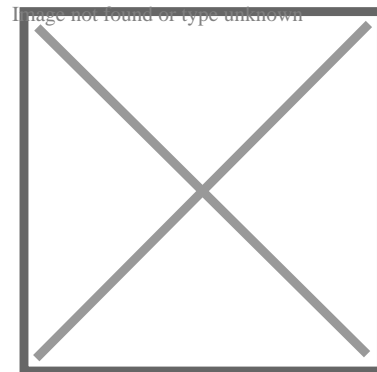
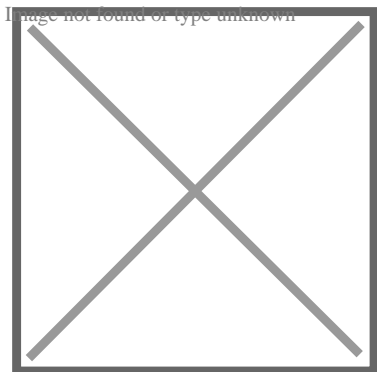
IIC Calendar Activity

Month:

Program /Activity Name:

Workshop on Entrepreneurship Skill, Attitude and Behaviour Development

Program Type:	Other:
Level 2 - Workshop	null
Program Theme:	Other:
Entrepreneurship & Startup	NA
Date & Duration (Days):	External Participants, If any:
02/05/2024-02/05/2024-0	null
Student Participants:	Faculty Participants:
120	10
Expenditure Amount, If any:	Remark:
null	null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK (IC202219708)

FIELD/EXPOSURE VISIT TO PRE-INCUBATION UNITS SUCH AS IDEAS LAB, FAB LAB, MAKERS SPACE, DESIGN CENTRES, CITY MSME CLUSTERS, WORKSHOPS ETC.

OVERVIEW

Objective:

To fulfill and to reduce the gap between the academic knowledge and practical aspects of the syllab

Benefit in terms of learning/Skill/Knowledge obtained:

Explore & understand pharmaceutical production & process.

Academic Year:

2023-24

Program driven by:

IIC Calendar Activity

Month:

Program /Activity Name:

Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops etc.

Program Type:

Level 1 - Exposure Visit

Other:

null

Program Theme:

Pre-Incubation & Incubation Management

Other:

NA

Date & Duration (Days):

02/07/2024-02/08/2024-1

External Participants, If any:

null

Student Participants:

131

Faculty Participants:

5

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



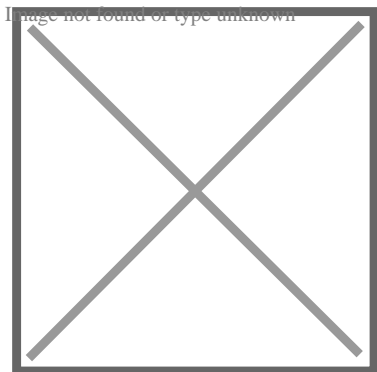
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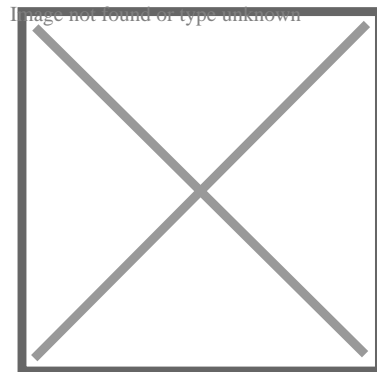
Session plan, If any:

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**BRAINSTORMING SESSION ON THE TOPIC "UNDERSTANDING OUR BRAIN, MIND AND
BODY"**

OVERVIEW

Objective:

To develop critical entrepreneurial skills such as creativity, problem-solving, collaboration.

Benefit in terms of learning/Skill/Knowledge obtained:

The session equips with practical strategies to harness their mental and physical potential, boosting their capacity to adapt entrepreneurial endeavor

Academic Year:

2023-24

Program driven by:

Self-driven Activity

Month:

Program /Activity Name:

Brainstorming session on the topic “Understanding our Brain, Mind and Body”

Program Type:

Level 1 - Expert Talk

Other:

null

Program Theme:

Entrepreneurship & Startup

Other:

NA

Date & Duration (Days):

02/10/2024-02/10/2024-0

External Participants, If any:

null

Student Participants:

168

Faculty Participants:

12

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



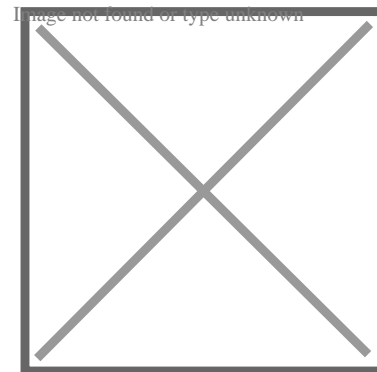
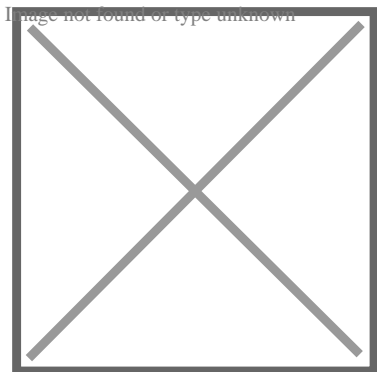
Photograph2:



Session plan, If any:

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
NATIONAL SCIENCE DAY

OVERVIEW

Objective:

To prove their talents, bring out their creativity, face challenges and overcome their weakness

Benefit in terms of learning/Skill/Knowledge obtained:

Students showcased their skill and talent with creativity

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Academic Year:

2023-24

Program driven by:

Celebrations



Month:

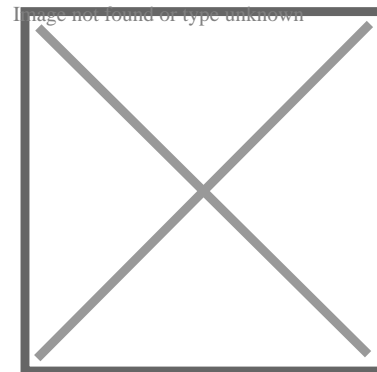
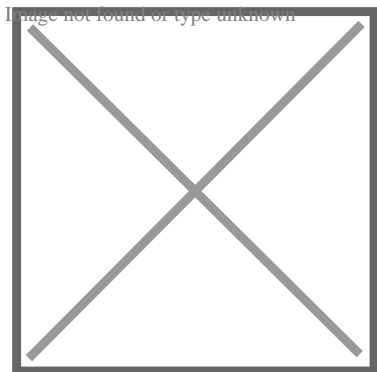
Program /Activity Name:

National Science Day

Program Type:

Other:

Level 2 - Competition	null
Program Theme: Innovation & Design Thinking	Other: NA
Date & Duration (Days): 02/28/2024-02/28/2024-0	External Participants, If any: null
Student Participants: 60	Faculty Participants: 15
Expenditure Amount, If any: null	Remark: null
ATTACHMENTS	
Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report
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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
INTERNATIONAL WOMEN'S DAY

OVERVIEW

Objective:

To raise awareness about the status and dignity of women among the students.

Benefit in terms of learning/Skill/Knowledge obtained:

Was to take more advantage of the potentials and talents of half of the humanity, and not just seek to consecrate gender equality in principle

Academic Year:

2023-24

Program driven by:

Celebrations

Month:

Program /Activity Name:



International Women's Day

Program Type:

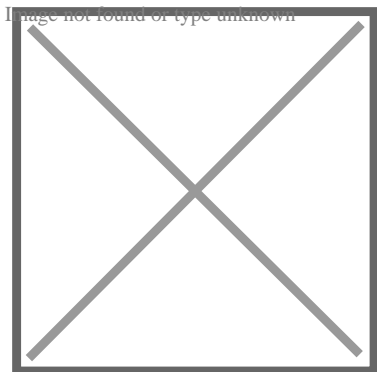
Other:

Level 1 - Expert Talk	NA
Program Theme:	Other:
Entrepreneurship & Startup	NA
Date & Duration (Days):	External Participants, If any:
03/09/2024-03/09/2024-0	null
Student Participants:	Faculty Participants:
140	15
Expenditure Amount, If any:	Remark:
null	NA

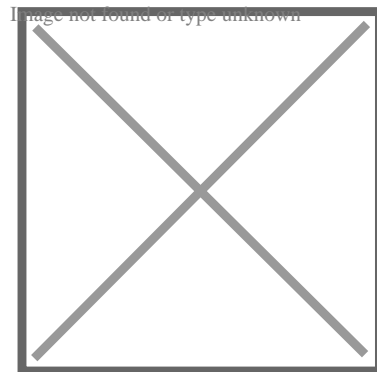
ATTACHMENTS

Video:	NA
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

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PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK (IC202219708)

GUIDING FRAMEWORK FOR CREATING AND ENGAGING TRAINED FACULTY AND STUDENT IIC MEMBERS, INNOVATION AMBASSADORS (IA) IN IIC INSTITUTIONS, AND REWARDING MECHANISMS FOR IAS

OVERVIEW

Objective:

To establish a structured approach for fostering innovation and entrepreneurship within Institutions

Benefit in terms of learning/Skill/Knowledge obtained:

Create a dynamic and supportive environment for innovation, benefiting both faculty and students while positioning the institution as a leader

Academic Year:

2023-24

Program driven by:

MIC driven Activity

Month:

Program /Activity Name:

Guiding Framework for Creating and Engaging Trained Faculty and Student IIC Members, Innovation Ambassadors (IA) in IIC Institutions, and Rewarding Mechanisms for IAs

Program Type:

Level 1 - Expert Talk

Other:

null

Program Theme:

Innovation & Design Thinking

Other:

NA

Date & Duration (Days):

07/29/2024-07/29/2024-0

External Participants, If any:

null

Student Participants:

0

Faculty Participants:

10

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

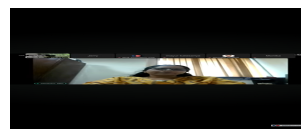
Video:

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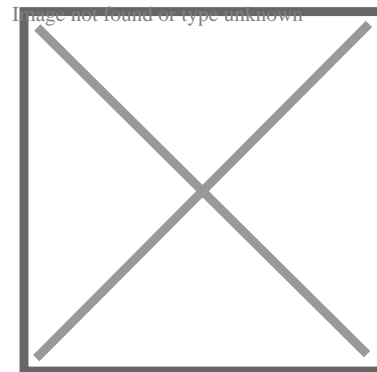
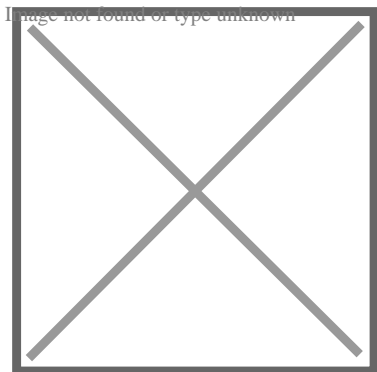
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Session plan, If any:

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**ORGANISING INNOVATION & ENTREPRENEURSHIP OUTREACH PROGRAM IN
SCHOOLS/COMMUNITY**

OVERVIEW

Objective:

To aware the student about the importance of Intellectual Property Rights in future.

Benefit in terms of learning/Skill/Knowledge obtained:

The participants understood the concept of need of patent in pharma field and the process required for it.

Academic Year:

2023-24

Program driven by:

IIC Calendar Activity



Month:

Program /Activity Name:

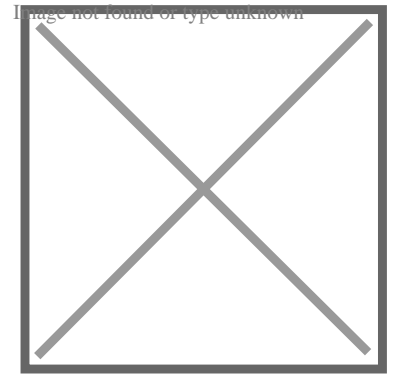
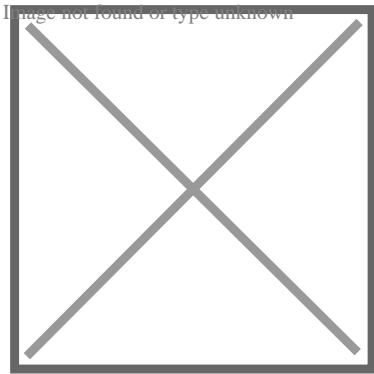
Organising Innovation & Entrepreneurship Outreach Program in Schools/Community

Program Type:	Other:
Level 2 - Workshop	null
Program Theme:	Other:
IPR & Technology Transfer	NA
Date & Duration (Days):	External Participants, If any:
07/05/2024-07/05/2024-0	89
Student Participants:	Faculty Participants:
120	19
Expenditure Amount, If any:	Remark:
null	null

ATTACHMENTS

Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**
**STRENGTHENING IIC LINKAGES WITH ATLS AND SICS IN SCHOOLS AND THE
FRAMEWORK FOR PROVIDING MENTORSHIP AND GUIDANCE**

OVERVIEW

Objective:

Enhancing innovation, collaboration, and mentorship within the education system.

Benefit in terms of learning/Skill/Knowledge obtained:

The program will strengthen the innovation ecosystem in schools, empowering students and educators to become active participants in the innovation

Academic Year:

2023-24

Program driven by:

MIC driven Activity

Month:

Program /Activity Name:

Strengthening IIC Linkages with ATLS and SICs in Schools and the Framework for Providing Mentorship and Guidance

Program Type:

Level 1 - Expert Talk

Other:

null

Program Theme:

Innovation & Design Thinking

Other:

NA

Date & Duration (Days):

07/31/2024-07/31/2024-0

External Participants, If any:

null

Student Participants:

4

Faculty Participants:

10

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



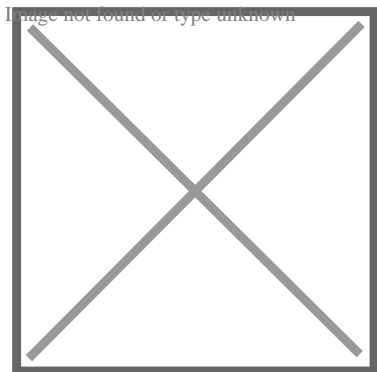
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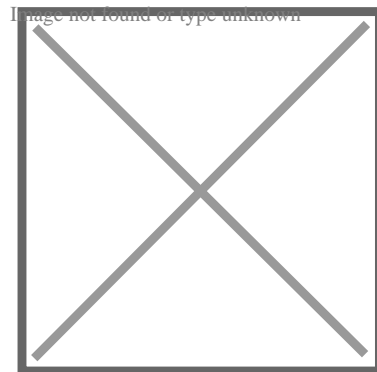
Session plan, If any:

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**PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF
PHARMACY (FOR WOMEN), NASHIK (IC202219708)**

**BUILDING THE PIPELINE OF QUALITY INNOVATIONS AND STARTUPS IN HEIS WITH
ECOSYSTEM ENABLERS BY CREATING AND MANAGING YUKTI INNOVATION AND IPR
REPOSITORY (YIIR)**

OVERVIEW

Objective:

To enhance the innovation landscape within HEIs and promote a culture of entrepreneurship.

Benefit in terms of learning/Skill/Knowledge obtained:

The initiative will significantly strengthen the pipeline of quality innovations and startups within HEIs, contributing to a innovation system.

Academic Year:

2023-24

Program driven by:

MIC driven Activity

Month:

Program /Activity Name:

Building the Pipeline of Quality Innovations and Startups in HEIs with Ecosystem Enablers by Creating and Managing YUKTI Innovation and IPR Repository (YIIR)

Program Type:

Level 1 - Expert Talk

Other:

null

Program Theme:

Innovation & Design Thinking

Other:

NA

Date & Duration (Days):

08/02/2024-08/02/2024-0

External Participants, If any:

null

Student Participants:

4

Faculty Participants:

8

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:



Session plan, If any:

[View Report](#)

This report is electronically generated against report submitted on Institution's Innovation Council Portal.

5. OTHER EVENTS_SEMINAR/WORKSHOP/ CONFERENCE/ GUEST SESSIONS ORGANIZED AT COLLEGE:

The college also organizes seminars, workshops, conferences, and guest sessions on topics like research methodology, intellectual property rights (IPR), entrepreneurship, and industry-institute interactions. These initiatives foster innovation by enabling students and teachers to engage with industry experts, stay updated on current advancements, and bridge the gap between academic knowledge and industrial practices.

Sr. No	Date	Topics	Resource Person
1	Webinar 11/07/2023	Opportunities for Pharmacy Graduate in Medical Coding	Ms. Nisha Pagar, Team Leader, Advantmed India LLP.
2	Webinar 14/07/2023	Competitive Examination Guidance Session For GPAT Examination By VDK	Mr. Vijayakumar Chakote GPAT Expert, Director of Pharmastar Academy
3	Workshop 28/07/2023	Financial Educational and Awareness Initiative under "Women's Empowerment Program"	Mrs. Deepali A. Chandak, WX Consultants Private Limited, Nashik
4	Workshop 12/08/2023	Workshop on Analytical Instrumental Validation	Mr. Rohan Pawar, Director, RAP, Nashik
5	14/09/2023 to 25/09/2023	10 days Employability Mentoring Training Program	Mr. Shrikant, Founders CEO-Cu-Succeed Organization
6	Workshop 17/01/2024	Guidance Program for Competitive Exam: Target GPAT and NIPER 2024	Mr. Sachin Jadhav, Founder, Fundamental Pharmacy
7	Webinar 07/02/2024	Career Guidance, GPAT Exam Preparation And Development of Soft Skills	Dr. Peeyush Jaiswal Sir GPAT DISCUSSION CENTER
8	Workshop 01/03/2024	Self defence programme "Women Self Defence-Meri Raksha Meri Jimmedari"	Mrs. Shivani Kotkar, A Self-defence instructor
9	Webinar 19/04/2024	Webinar on "Future Skills and Career Opportunities in Drug Regulatory Affairs to Land Your Dreams"	Ms. Sakshi Narode, Product Data Analyst, Bayer Crop Science Limited,



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6. MENTORS

The institute recruits dynamic & highly qualified faculty to mentor and channelize the young minds. The Institute has taken an initiative to encourage the faculty members to pursue their Ph. D.

Faculty mentors are appointed for major research of PG & minor research project work to B. Pharm final year students.

Sr. No	Number of teachers recognized as Research Guides	PG Guide	Subject of Recognition
1	Dr. Charushila J. Bhangale	PG & Ph.D	Pharmaceutical Chemistry
2	Dr. Kiran B. Kotade	PG & Ph.D	Pharmacology
3	Dr. Sachin B. Somwanshi	PG & Ph.D	Pharmaceutics
4	Dr. Kiran B. Dhamak	PG	Quality Assurance
5	Dr. Vinayak M. Gaware	PG	Pharmaceutical Chemistry
6	Ms. Kaveri T. Vaditake	PG	Pharmaceutical Chemistry



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M. Pharmacy_2023-24

List of Research Projects with name of guides

Sr. No.	Name of Students	Title of Thesis	Name of Guide
Department of Pharmaceutics (MPH)			
1	Bhadane Devyani Govinda	Formulation development and evaluation of fast dissolving tablet of sitagliptin and its comparison with marketed dosage form	Dr. Sachin B. Somwanshi
2	Donde Harsha Kailas	Formulation development and evaluation of itraconazole film forming gel for prolonged drug delivery	Dr. Sachin B. Somwanshi
3	Kahar Archana Datta	Enhancement of Solubility and dissolution technique rate by solid dispersion te of etodolac	Dr. Sachin B. Somwanshi
4	Kale Shilpa Arun	Formulation and evaluation of herbal toothpaste using multiple herbs	Dr. Sachin B. Somwanshi
5	Shinde Vrushali Subhash	Formulation Development and Evaluation of sustained release matrix tablet of Atenolol by using 32 factorial design and its kinetic modeling study	Dr. Sachin B. Somwanshi
6	Sanap Namita Vilas	Formulation and Optimization of mucoadhesive buccal tablet of azelnidipine by using factorial design	Dr. Sachin B. Somwanshi
7	Sangale Yogita Amrutrao	Formulation and Optimization of sertaconazole nitrate emulgel by using factorial design	Dr. Sachin B. Somwanshi
8	Gavhane Snehal Ashok	Formulation development and evaluation of tofacitinib sustained release tablet by using natural polymers	Dr. Sachin B. Somwanshi
9	Autade Nikita Sambhaji	Formulation development and evaluation of Solid Lipid Nanoparticle containing drug carrier for the treatment of psychosis	Dr. Kiran B. Dhamak





10	Priyanka Ashok Bobade	Harnessing design expert for piroxicam nanosponges formulation & it's evaluation	Dr. Kiran B. Dhamak
Department of Quality Assurance (MQA)			
11	Ambekar Ruchika Vilas	Development and Validation of RP-HPLC and UV methods for estimation of Enzalutamide in Bulk drug and Pharmaceutical dosage form	Dr. Charushila J. Bhangale
12	Kadam Swamini Sandesh	Validated RP-HPLC Method for Estimation of Bempedoic Acid in Bulk and Pharmaceutical Formulation by QBD	Dr. Charushila J. Bhangale
13	Kunde Gayatri Ramhari	Formulation, evaluation and optimization hydrogel film on wound healing	Dr. Charushila J. Bhangale
14	Hire Gauri Jeevan	Validated RP-HPLC Method for Estimation of Tamsulosine in Bulk and Pharmaceutical Formulation by Quality By Design	Dr. Charushila J. Bhangale
15	Sangale Priyanka Ramdas	Identification of extracted metabolites from Celastrus Paniculatus Plant leaves by Liquid Chromatography-High Resolution Mass Spectrometry (LC-HRMS)	Dr. Charushila J. Bhangale
16	Bhandare Arati Namdeo	RP-HPLC Method Development and Validation for the Estimation of Bilastine and Montelukast In Bulk Drug And Its Pharmaceutical Dosage Form	Mrs. Kaveri T. Vaditake
17	Patil Mansi Mahesh	Development and Validation of RP-HPLC Method for the Estimation of Vildagliptin and Metformin Hydrochloride in Combine Bulk and Pharmaceutical Dosage Form	Mrs. Kaveri T. Vaditake
18	Rajole Sayali Pravin	RP-HPLC method development and validation for estimation of ertugliflozin and sitagliptin in bulk drug and dosage form.	Mrs. Kaveri T. Vaditake





19	Thube Gayatri Rajendra	To develop and validate assay method for the Dolutegravir sodium by using HPLC	Mrs. Kaveri T. Vaditake
20	Ugale Shweta Sunil	RP-HPLC Method development and validation for estimation of Teneiglipitin and pioglitazone in bulk drug and tablet dosage form	Mrs. Kaveri T. Vaditake
21	Chopade Vaishnavi Pravin	Isolation and Characterisation of Selected Impurities Obtained From Pharmaceutical API	Dr. Vinayak M. Gaware
22	Jaju Payal Pavankumar	Method Development, Validation And Forced Degradation Studies Of Cilnidipine And Telmisartan By Qbd Approach Using Rp-Hplc Method	Dr. Vinayak M. Gaware
23	Satpute Gayatri Shridhar	Method Development And Validation For Determination Of Vildagliptin And Pioglitazone In Bulk Drug Substance And Pharmaceutical Dosage Forms By RP-HPLC	Dr. Vinayak M. Gaware
24	Ugale Prerana Sampat	The rp hplc method development for meclizine hcl and folic acid tablet	Dr. Vinayak M. Gaware
25	Ugalmugale Prajakta Kiran	Stability indicating Rphplc method development and validation for estimation of brexpiprazole in a bulk drug and dosage form	Dr. Vinayak M. Gaware
Department of Pharmacology (MPL)			
26	Barve Ravina Valu	To Evaluate Antinoceptive And Anti-Inflammatory Activity Of Naringenin On Experimental Animal	Dr. Kiran B. Kotade
27	Gund Akshada Laxman	To Study Anti-Depressant And Anxiolytic Effect Of Fisetin And Silymarin In Mice	Dr. Kiran B. Kotade
28	Khemnar Jayashri Shivaji	To Assess the Analgesic & Antipyretic activity of polyherbal formulation	Dr. Kiran B. Kotade





29	Mhaske Gayatri Navnath	To Investigate Antidepressant Effect Of Catechin And Piperine In Experimental Animals.	Dr. Kiran B. Kotade
30	Wagh Vaibhavi Vikas	Investigation Of The Neuroprotective Potential Of Ferulic Acid And Quercetin In The Paraquat-Induced Parkinson's Disease In Wistar Rats	Dr. Kiran B. Kotade
31	Randive Prajakta Vijay	To Study In Vivo Wound Healing Activity Of Polyherbal Formulation Of Mahatikta Ghruta In Rat	Dr. Kiran B. Kotade
32	Shelar Gayatri Sharad	To study the antidepressant activity of Garcinia indica fruit rind juice along with gallic acid	Dr. Kiran B. Kotade
33	Waje Pooja Sudam	Comparative Investigation Of Wound Healing Activity Of Shatdhauta Ghruta And Shatdhauta Ghruta Cream In Rats By Using In Vivo Model	Dr. Kiran B. Kotade
34	Khanale Prajakta Chandrakant	To Study Antiulcer Activity Of Polyherbal Formulation	Mrs. Sangita N. Bhandare
35	Salve Jagruti Ramesh	To evaluate the Analgesic & Anti- inflammatory activity of Polyherbal formulation	Mrs. Sangita N. Bhandare



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Final Year B. Pharmacy_VIII Semester_2023-24

List of Research Projects with name of guides

Sr. No.	Name of Student	Topic	Guide
1	Adhagale Jotshna Rajendra	Formulation and Evaluation of Antibacterial Herbal soap	Dr. Charushila J. Bhangale
2	Jadhav Divya		
3	Jadhav Shital Sanjay		
4	Mane Akanksha Shailesh		
5	Ghumare Prajakta Madhukar	The study on Psychological occurring during Menstruation in college girls.	Dr. Kiran B. Kotade
6	Sonawane Jagriti Samadhan		
7	Thorat Ankita Satish		
8	Ugale Kiran Vasant	Herbal Formulation of Lozenges for the management of Mouth Ulcer : A Research Investigation	Dr. Sachin B. Somwanshi
9	Ganorkar Priyanka Santosh		
10	Gaphale Shradha Baban		
11	Kale Pratiksha Dilip		
12	Sawant Ankita Dattatraya	Rice Skin Lightening Face cream	Dr. Vinayak M. Gaware
13	Kandalkar Komal Sanjay		
14	Lokhande Akshita Sanjay		
15	Patil Tejas Rajaram		
16	Raut Arti Sampat	Formulation and Evaluation of Herbal Biscuit as Neutraceutical	Mrs. Sangita N. Bhandare
17	Kokate Snehal Shantaram		
18	Mhase Sejal Anil		
19	Takate Harshada Radhakisan		
20	Ugale Nikita Suresh	To improve Flow properties of	
21	Jondhale Sakshi Vijay		





		starch powder by adopting spray drying process	Mr. Vikas D. Kunde	
22	Sanap Kanchan Ramesh	Exploring the effect of light on Paracetamol using Photostability chamber		
23	Tupe Anuradha Pramod			
24	Yelmame Sandhya Vinod			
25	Ambekar Utkarsha Rajendra	Advancement in extrusion spherization as granulation technique.	Ms. Kaveri T. Vaditake	
26	Sangle Gayatri Ramesh	Quantification of Paracetamol in different branded vs Generic tablet formulation by UV-Spectrophotometric method.		
27	Ugale Arati Somnath			
28	Zalte Mayuri Sanjay			
29	Avhad Arati Subhash	Method Development and Validation of Raltegravir by UV and HPLC	Mr. Rahul D. Khaire	
30	Pawar Anisha Nitin			
31	Wagh Manasi Raju			
32	Warungase Vaishnavi Sunil			
33	Vatpade Tanavi Santosh	Formulation & Evaluation of Herbal Tooth powder	Mr. Mayur T. Gaikar	
34	Tugave Anushka Shivaji			
35	Gurgude Harshada Nanasahab	Formulation and evaluation of Herbal Antidiabetic churna		
36	Damodar Ankita Ashok			
37	Joshi Ketaki Hemant	Menstrual Hygiene Matters		Mrs. Roma M. Sharma
38	Patil Priyanka Yuvraj			
39	Talpade Jayashree Gangaram			
40	Walzade Shruti Milind			
41	Ghumare Bhumika Jayant	Formulation and Evaluation Herbal Face Pack for Glowing Skin	Ms.B.S.Sayyad	
42	Karad Rutaja Shivaji			



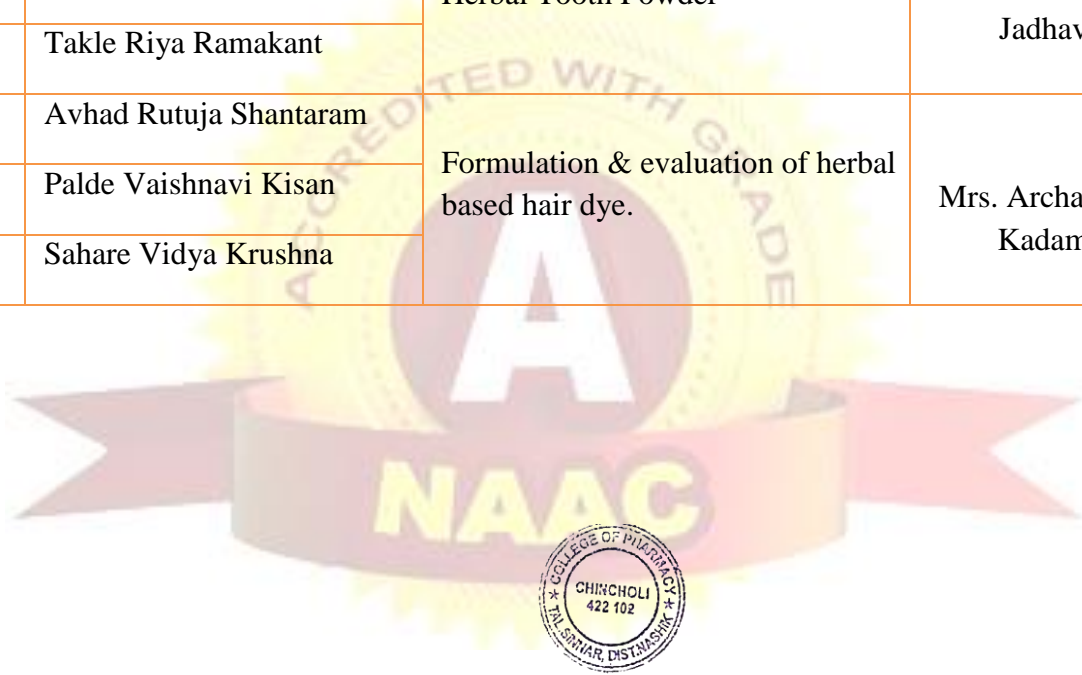


43	Sarode Laxmi Sushant	Formulation and Evaluation of Blush Preparation By using Natural Coloring from Red Beetroot powder (Beta Vulgaris L.)	
44	Tungar Rajeshwari Bandu		
45	Birajadar Sakshi Dhananjay	Formulation and evaluation of multipurpose cream of berberis aristata for treatment of psoriasis	Ms.Neha S. Kadam
46	Pagare Geeta Changdeo		
47	Gite Sonali Bhikaji		
48	Kokate Trupti Raghunath	Formulation and evaluation of foot cream from Ficus Racemosa Linn	
49	Chakor Nikita Satish	Formulation and Evaluation of Herbal tea for Menstrual Disorders	Ms. Kiran S. Kudale
50	Labade Sayali Ravindra		
51	Nimbalkar Ashwini Valmik	Formulation and Evaluation of Immune Booster powder	
52	Shinde Shital Shamrao		
53	Bendkule Punam Ashok		
54	Gondkar Sonal	Formulation And Evaluation of Gutika- An Ayurvedic Dosage Form	Ms. Rutuja V. Pagare
55	Nair Aditi Vinumon		
56	Patil Naveli Kirankumar		
57	Borole Payal Gunwant	Formulation and Evaluation of Plant Based Collagen Powder	Dr. Atul N. Khadse
58	Joshi Aditi Arun		
59	Kokate Ishwari Shivaji		
60	Shaikh Suzain Zulfikar		
61	Dhumal Vaishnavi Nanasahab	Extraction characterization Formulation and evaluation of carica papaya leaves extract gel by using RP-HPLC analysis	Mr. Balu T.Jagtap
62	Nath Bhagyashree Dattu		
63	Wavikar Rutuja Sharad		
64	Chaudhari Amruta Minnath	Formulation of Quercetin Nanoparticles	Ms. Sheetal B.
65	Deshmukh Chaitali		





66	More Prachi Subhash		Gosavi
67	Gavit Renuka Sukalal	Formulation and evaluation of Herbal Mouthwash	Mrs. Sayali J. Chothave
68	Kulkarni Shreya Kishor		
69	Satpute Madhuri Gajendra		
70	Bhatjire Samruddhi Kiran	Formulation and evaluation of Herbal Tooth Powder	Mrs. Snehal D. Jadhav
71	Darunte Rutuja Sunil		
72	Takle Riya Ramakant		
73	Avhad Rutuja Shantaram	Formulation & evaluation of herbal based hair dye.	Mrs. Archana S. Kadam
74	Palde Vaishnavi Kisan		
75	Sahare Vidya Krushna		



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7. RESEARCH PUBLICATIONS

Faculty members published research papers in UGC, Scopus, PubMed and Web of Science indexed journals.

Sr. No.	Name of Staff	No of Research Papers Published				Remarks
		UGC	Scopus	WOS	Other	
1	Dr. Charushila J. Bhangale	2	2	2	0	6
2	Dr. Atul N. Khadse	-	-	-	1	1
3	Dr. Kiran B. Kotade	-	-	-	1	1
4	Dr. Kiran B. Dhamak	-	1	-		1
5	Dr. Sachin B. Somwanshi	2	1	-	2	5
6	Dr. Vinayak M. Gaware	-	-	-	4	4
7	Ms. Kaveri T. Vaditake	-	1	-	1	2
8	Mr. Mayur T. Gaikar	2	-	-	1	3
9	Mr. Rahul D. Khaire	1	-	-	1	2



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DETAILS OF PUBLICATIONS 2023-24

Sr. No	Name of Staff	Title	Name of Journal	Indexed In
1	Charushila J. Bhangale,	A Review: Human Models In An Industrial Applications	Industrial Engineering Journal, 2023; 52(7-3): 139-149 ISSN: 0970-2555	UGC Care
2	Charushila J. Bhangale,	Imapct Of Industry 4.0 On Supply Chain Management	Industrial Engineering Journal, 2023; 52(7-4): 101-105 ISSN: 0970-2555	UGC Care
3	Charushila Bhangale, Kiran Kotade & Kaveri Vaditake	Green UHPLC Method development for Quantification of Sofosbuvir and Velpatasvir in bulk and Pharmaceutical dosage form by stability study	Latin American Journal of Pharmacy, 2023; 42(3): 1112- 1122 ISSN 0326-2383	Scopus
4	Charushila Bhangale, Sachin Somwanshi, Kiran Kotade, Mayur Gaikar	Eco-Friendly Stability Indicating HPLC Method for Estimation of Elbasvir and Grazoprevir by Quality by Design Approach	Journal of Advanced Zoology, 2023; 44(S-5): 1330-1346 ISSN: 0253-7214	Web of Science
5	Charushila Bhangale, Sangita Bhandare, Neha Gaikwad	Simultaneous Estimation of Amlodipine and Enalapril Maleate by Stability Indicating UHPLC Method	International Journal of Pharmaceutical Investigation, 2024; 14(1):151-159 ISSN: 2230-9713	Web of Science
6	Charushila Bhangale, Roma Sharma & Ketaki Joshi	Menstrual Hygiene Matters – Lets Talk About It	GIS Science Journal, 2024; 11(4): 639-672, ISSN NO : 1869-9391	Scopus/ UGC Care
7	Atul N. Khadse, Payal Borole, Aditi Joshi, Suzain Shaikh, Ishwari Kokate	Formulation and Evaluation on Plant Based Collagen Powder	International Journal of All Research Education and Scientific Methods, 2024; 12(5): 263-273, ISSN: 2455-6211,	-
8	Kiran Kotade, Sachin Somwanshi, Roma Sharma & Ankita Barashile	Formulation And Evaluation Of Herbal Anti-Microbial Topical Preparation	European Chemical Bulletin 2023; 12(10): 10549-10561 ISSN: 2063-5346	Scopus
9	Sachin Somwanshi & Kiran Kotade	Enhanced Solubility and Dissolution Rate of Aceclofenac using Freeze Drying Technique	International Journal of Drug Delivery Technology, 2023; 13(4): 13710-1377 ISSN: 0975 4415	Scopus



10	Sachin B. Somwanshi & Varsha S. Katore	A Review on Formulation of Sustain Release Tablets	International Journal of Pharmacy and Pharmaceutical Research, 2023; 27(2): 510-521 ISSN: 2349 7203	-
11	Sachin B. Somwanshi & Sampada R. Gadekar	A Review On: Novel Approaches In Nano Robotics	International Journal of Creative Research Thought, 2023; 11(12): h797-h803.	UGC Care
12	Sachin B. Somwanshi & Ankita D. Sawant	3D Bioprinting of Tissue And Organ: An Overview	World Journal of Pharmaceutical Research, 2023; 12(21): 239-266 ISSN: 2277– 7105	-
13	Sachin B. Somwanshi	Healthcare Management In The Age Of Ai: Opportunities And Challenges	International Journal of Cultural Studies and Social Sciences, January - June: 2024; 20(1-16): 29-37	UGC Care
14	Kiran Dhamak & Varsha Pangale	Dissolution Method Development For The Simultaneous Estimation Of Azilsartan Medoxomil And Chlorthalidone Tablets By Using RP-HPLC	GIS Science Journal, 2024; 11(5): 572-585, ISSN NO : 1869-9391	UGC Care
15	Vinayak M. Gaware, Rahul D. Khaire , Vikas D. Kunde & Aaditi R. Ingale	Formulation Evaluation And Development Of Antimicrobial Effect Of Novel Polyherbal Mouthwash	Journal of Interdisciplinary Cycle Research, 2023; XV(XII): 41-62 ISSN: 0022-1945	-
16	Vinayak M. Gaware, Mayur T. Gaikar & Kalpana C. Sabale	Development And Validation Of RP - HPLC Method For The Simultaneous Estimation Of Naloxone Hcl And Buprenorphin Hcl In Bulk And Tablet Dosage Form	Journal of Interdisciplinary Cycle Research, February/2024; XVI (II): 593-607.	-
17	Vinayak Gaware & Vidya R. Andhale	Method Development and Validation of Alcaftadine Drug in Bulk and Dosage Form by RP-HPLC	Asian Journal of Pharmaceutical Analysis. January - March, 2024; 14(1): 1-7, ISSN 2231–5675	-
18	Vinayak Gaware, Komal S. Kandalkar	Review On Medicinal Uses And Nutritional Values Of Goat Milk	World Journal of Pharmacy and Pharmaceutical Sciences, Apr 2024;13(4):622-635	-



			ISSN 2278 – 4357	
19	Kaveri Vaditake, Priti Chavanke, Namita Tarmale	A Novel, Simple Method Development and Validation: Force Degradation Studies of Dapagliflozin By UV Spectroscopy	International Journal of Research Publication and Reviews; 2023; 4(9): 2688-2691 ISSN 2582-7421	-
20	Kaveri T. Vaditake	A Stability Indicating RP-HPLC Method for the Estimation of Nebivolol Hydrochloride in Human Plasma	International Journal of Pharmaceutical Quality Assurance, 2023; 14(3): 529-533 ISSN: 0975 9506 SJR 0.15	Scopus
21	Rahul D. Khaire	Method Development and Validation of Irbesartan by RP-HPLC	Asian Journal of Pharmaceutical Analysis. January - March, 2024; 14(1): 1-5, ISSN 2231–5675	-
22	Rahul. D. Khaire, Arati S. Avhad	A Review On Multi-Drug Resistance Tuberculosis	Journal of Emerging Technologies and Innovative Research, 2023; 10(12): e828-e835, ISSN-2349-5162	UGC Care
23	Mayur T. Gaikar	Evaluation of Synergistic Effect of Camellia Sinensis and Trachyspermum Ammi for Anti-Inflammatory	Eur. Chem. Bull. 2023; 12(Special Issue 4): 19629–19640, ISSN: 2063-5346	Scopus
24	Mayur T. Gaikar, Gurgude Harshada, Damodar ankita	Formulation and Evaluation of ANTI-DIABETIC churna	Journal of Emerging Technologies and Innovative Research, 2024; 11(4): p170-p186, ISSN-2349-5162	UGC Care
25	Mayur T. Gaikar, Tanavi S. Vatpade	Formulation and Evaluation of Herbal Tooth Powder	Journal of Emerging Technologies and Innovative Research, 2024; 11(5): m1-m23, ISSN-2349-5162	UGC Care



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A REVIEW: HUMAN MODELS IN AN INDUSTRIAL APPLICATIONS

Mrs. Ankita K. Patil, Assistant Professor, Dept. of Mechanical Engineering, Matoshri College of Engineering and Research Centre, Nashik, Maharashtra, India, 422105

Dr. Jayant H. Bhangale, Professor, Head, Dept. of Mechanical Engineering, Matoshri College of Engineering and Research Centre, Nashik, Maharashtra, India, 422105

Dr. Charushila J. Bhangale, Principal, Pravara Rural Education Society's, College of Pharmacy for Women, Chincholi, Nashik, Maharashtra, India, 422105

Abstract

Human models are currently being used in a wide field of industrial and scientific applications. It is very important for especially industrial applications. There are mainly two types of direction, i.e. physical direction modeling and cognitive direction modeling. A short survey about the above-mentioned modeling methods is presented in this paper. And takes a closer look at a special overview approach and an overview is given of the main developments in recent years as per the requirement of an industry as well as for fast growth and development of an industry. These models have been developed consisting of many human aspects.

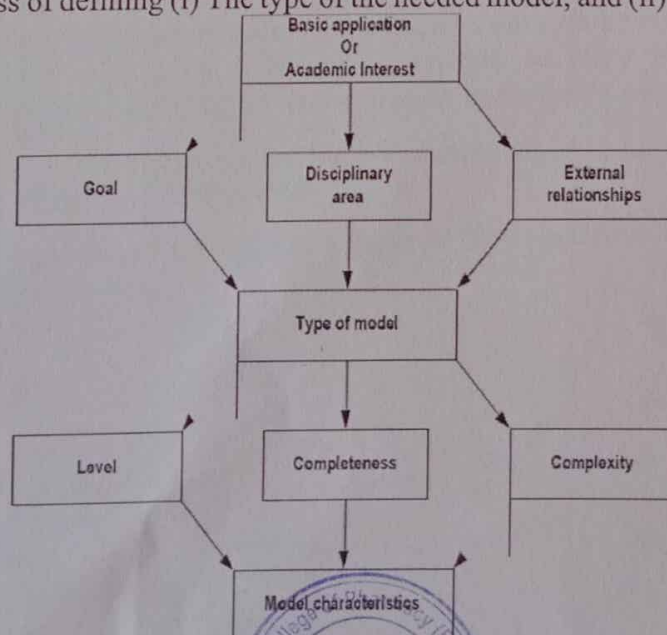
Keywords:

Human model, modeling behavior, industrial application, and design.

1. Introduction

Human models are developed to evaluate and optimize socio-technical aspects of production systems. Human models specially are used to adapt workplaces or productions to human requirements. This paper provides an overview of human modeling techniques and their applications in the present and in the future [02]. In an industrial application, human model technology is efficiently and transparently implemented regarding human control expertise. Human models are provided with set values based on the process control expertise for controllers put in its methods [26].

This leads to the process of defining (i) The type of the needed model, and (ii) the model characteristics



Bhangale





IMPACT OF INDUSTRY 4.0 ON SUPPLY CHAIN MANAGEMENT

Mrs. Ankita K. Patil, Assistant Professor, Dept. of Mechanical Engineering, Matoshri College of Engineering and Research Centre, Nashik, Maharashtra, India, 422105, ankitapatil2703@gmail.com

Dr. Jayant H. Bhangale, Professor & Head, Dept. of Mechanical Engineering, Matoshri College of Engineering and Research Center, Nashik, Maharashtra, India, 422105, bhangle100@gmail.com

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Dr. Ashish M. Mahalle, Professor & Head, Dept. of Mechanical Engineering, Government College of Engineering, Amravati, India, ashishmahalle@rediffmail.com

Abstract

Although supply management was emerging rapidly in the decades of 80's and 90's, today in 21st-century which is known as an era of Industry 4.0, industrial firms are still struggling with the concept. Factors like product arrival, customer's feedback & up-gradation competition have led to huge losses are takes place because of the lack of supply chain management.

In today's era, manufacturing has to work with supply chain management. These manufacturing issues cause us to consider the position we have reached in the manufacturing process as well as how well established supply chain management techniques have adapted to changes in the stages of product development, the compression of cycle time, and employee effort to meet demand and meet customer expectations in an era of "Industry 4.0".

Keywords: Manufacturing, Industry 4.0, SCM (Supply chain management).

I. Introduction

Manufacturing is initiated during the industrial revolution in the 19th century. In the early 19th century manufacturing is transferred from job production to mass production. Due to that manufacturing process have a big impact on factors like tools, machines, and transportation.

Manufacturing industries depend on profit and this will depend on customer satisfaction regarding the quality, and the arrival of products with in time.

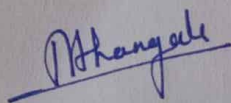
Businesses require both a strategic strategy and a focus on the competition to flourish in today's fast-paced manufacturing environment.

Types of Production:-

Manufacturing Processes:-

- 1) High Volume
 - a) Quantity Production
 - 1) Manual
 - 2) Automatic
 - b) Flow Line Production




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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

A Review On: Novel Approaches In Nano Robotics

Author: Sampada Rajendra Gadekar

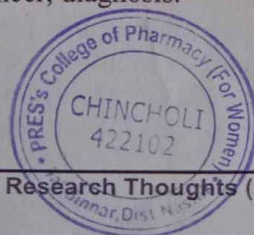
Co-author- Dr. Sachin B Somwanshi , Ms Bushra S sayyed

Dept of pharmaceutics, Savitribai Phule university Pune

Abstract

Nanorobotics is emerging field of a nanotechnology having nanoscale dimensions and is predictable to work at an atomic, molecular and cellular level. Nanorobot skeleton is made up of carbon and its toolkit contains components like medicine cavity containing medicine, microcamera, payload, capacitor and swimming tail. As nanorobots have special sensors i.e. physical or chemical which detect the target molecules in the human body can be used for the diagnosis and treatment of various vital diseases i.e. cancer, diabetes, atherosclerosis, hemophilia, kidney stones, etc. Nanorobots till date are under the line of investigation, but some primary molecular models of these medically programmable machines have been tested. This review on nanorobots presents the various aspects allied i.e. introduction, history, ideal characteristics, Approaches in Nanorobotics, basis for the development, tool kit recognition and retrieval from the body, application considering diagnosis and treatment. The outstanding achievements in nanorobotics have significantly expanded the field of medical robotics and yielded novel insights into the underlying mechanisms guiding life activities, remarkably showing an emerging and promising way for advancing the diagnosis & treatment level in the coming era of personalized precision medicine. In this review, the recent advances in nanorobotics (nanorobots, nanorobotic manipulations) for biomedical applications are summarized from several facets (including molecular machines, nanomotors, DNA nanorobotics, and robotic nanomanipulators), and the future perspectives are also presented.

Keywords nanorobotics, nanotechnology, medicine, cancer, diagnosis.



Phangale

PRINCIPAL

HEALTHCARE MANAGEMENT IN THE AGE OF AI: OPPORTUNITIES AND CHALLENGES

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Abstract

This review research paper aims to explore the opportunities and challenges posed by the integration of artificial intelligence (AI) in healthcare management. It examines how AI technologies are transforming various aspects of healthcare delivery, and it identifies the implications for healthcare practitioners, policymakers, and patients. Drawing upon existing literature and case studies, this paper synthesizes theoretical perspectives from healthcare management, AI technologies, and organizational theory to understand the dynamics of AI adoption in healthcare settings. It also considers ethical and regulatory frameworks guiding AI implementation in healthcare. A comprehensive literature review was conducted, utilizing academic databases and reputable sources to gather relevant studies and articles. The review is structured to provide insights into the current state of AI applications in healthcare management, including examples of successful implementations and areas requiring further research. The findings reveal that AI presents significant opportunities for improving healthcare management, such as enhancing diagnostic accuracy, optimizing resource allocation, and personalized treatment planning. However, challenges related to data privacy, algorithm bias, and workforce displacement need to be addressed to realize the full potential of AI in healthcare. This paper underscores the importance of integrating AI responsibly and ethically into healthcare management practices. It highlights the need for ongoing research to address technical challenges and develop robust governance frameworks for AI deployment in healthcare settings. Moreover, it emphasizes the potential societal impact of AI on healthcare access, equity, and patient outcomes. By synthesizing current research and providing insights into the opportunities and challenges of AI in healthcare management, this paper contributes to the growing body of knowledge on the intersection of technology and healthcare. It offers practical recommendations for healthcare stakeholders to navigate the complexities of AI adoption and leverage its potential benefits effectively.

Keywords: Healthcare management, Artificial intelligence, AI applications, Opportunities, Challenges, Ethical implications, Healthcare delivery, Organizational theory.

Introduction

Title: Healthcare Management in the Age of AI: Opportunities and Challenges

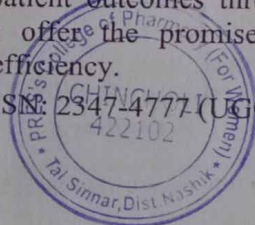
Introduction:

The integration of Artificial Intelligence (AI) into healthcare management systems has marked a transformative epoch in the healthcare industry. As AI technologies continue to advance, they offer unprecedented opportunities for revolutionizing various aspects of healthcare delivery, ranging from diagnosis and treatment to administrative tasks and resource allocation. However, along with these opportunities come significant challenges that necessitate a thorough examination to ensure the effective and ethical implementation of AI in healthcare management.

This review paper delves into the multifaceted landscape of healthcare management in the age of AI, exploring the diverse opportunities AI presents and the intricate challenges it poses. By synthesizing existing research and perspectives, this paper aims to provide a comprehensive understanding of how AI is reshaping healthcare management practices worldwide.

The opportunities presented by AI in healthcare management are manifold. AI-driven tools have demonstrated remarkable capabilities in analyzing vast volumes of medical data with unprecedented speed and accuracy, facilitating more precise diagnoses and personalized treatment plans. Moreover, AI-powered predictive analytics can aid healthcare providers in forecasting disease outbreaks, optimizing resource allocation, and improving patient outcomes through proactive interventions. Additionally, AI-based administrative solutions offer the promise of streamlining healthcare operations, reducing costs, and enhancing overall efficiency.

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A REVIEW ON MULTI-DRUG RESISTANCE TUBERCULOSIS

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Abstract : Multi drug resistant means the resistance produce by isoniazid and rifampicin with or without resistance to other drugs like most of the anxious element of a pandemic of Antibiotic Resistance. Multi drug resistant tuberculosis caused by the mycobacterium tuberculosis and in rare cases mycobacterium bovis. Mycobacterium bovis is present in the unpasteurized cow milk. Mycobacterium tuberculosis is spread through the air from person to person while sneezing , talking , droplet inhalation , inadequate health care, living in crowded area ,health care workers, malnutrition. Multi drug resistant tuberculosis [MDR-TB] is not easily cure. It is difficult to cure when proper treatment are taken. Improper treatment and poor treatment led to multi drug resistance tuberculosis. Proper management and therapy of tuberculosis particularly drug resistant tb by professional and expert physician ,special diagnosis by test , innovation of new Anti-tubercular drug [molecule],vaccines and knowing the real magnitude of MDR-TB are some important problem for productive prevent and management of MDR-TB. The main causes of the spread of resistant TB are weak medical systems, amplification of resistance pattern through incorrect treatment and transmission in communities and facilities. Some strains of tuberculosis are resistant to first or second line drug treatments. Their continuing spread is one of the most urgent challenges facing global TB control.

IndexTerms - Multi- drug resistance tuberculosis, Transmission , Diagnosis , Treatment

INTRODUCTION-

Multidrug resistance tuberculosis is due to an organism this is proof against as a minimum isoniazid and rifampin, the 2 maximum strong TB drugs. Tuberculosis is due to Mycobacterium Tuberculosis and in uncommon instances Mycobacterium Bovis . mycobacterium bovis is found in unpasteurized cow milk . Mycobacterium tuberculosis is unfold through the air from man or woman to in keeping with-son whilst sneezing , talking , droplet inhalation , insufficient fitness care, residing in crowded area ,fitness care workers, malnutrition. 1.7 million human beings deaths yearly from TB and tb is the second one main infectious killer after COVID-19. Misuse of the isoniazid and rifampicin has led to emergence of the multidrug resistance tb and considerably drug resistance tb. Extensively drug resistance tb are the resistance to isoniazid and rifampicin and similarly of any fluroquinolone , and as a minimum one of the 3 injectable drugs; capreomycin, kanamycin, amikacin .The U.S. reviews 90-one hundred instances in keeping with yr



Formulation and Evaluation of ANTI-DIABETIC churna

Gurgude Harshada Nanasaheb ,Damodar ankita , Gaikar mayur

Student, Student, Guide

PRES college of pharmacy women's Chincholi Nashik

ABSTRACT

The aim of this investigation was to assess the antidiabetic properties of Anti-Diabetic Churna using the streptozotocin-induced diabetes model, as well as its alpha amylase and alpha glucosidase inhibitory activities.[1] One of particularly prevalent metabolic diseases, diabetes mellitus affecting 2.8% of people worldwide and is projected to reach 5.4% by 2025. Herbal remedies have long been regarded as an extremely valuable form of medicine; as a result, they are increasingly featured in cutting-edge, contemporary care. Consequently, based on the review Medicinal plants' ability to lower blood glucose levels is mostly ascribed to the presence of polyphenols, flavonoids, terpenoids, coumarins, and other components. Antidiabetic churna – a compound ayurvedic preparation made up of Pterocarpus marsupium, Azadirachta indica, ocimum sanctum, syzygium cumini, trigonella foenum graceum, emblica officinalis, glycyrrhiza glabra, curcuma longa, black salt, piper nigrum, zingiber officinalis was screened for its antidiabetic activities.[2] Churna was subjected to in vitro antidiabetic screening using the starch iodine and dinitro salicylic acid (DNSA) methods, which involved α -amylase inhibition and IC 50 value was calculated.[3] The powder characteristics performed like Ash value, Angle of repose, Density, bulk density, tapped density, LOD, pH of churna. The standard limits have been surpassed for each parameter.

Keywords:

Churna, alpha amylase, alpha glucosidase, metabolic disease, diabetes mellitus, herbal remedies, lower blood glucose, IC50



PRINCIPAL

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FORMULATION AND EVALUATION OF HERBAL TOOTH POWDER

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ABSTRACT

Herbal tooth powder has been about for centuries and numerous believe it to be an essential part of any teeth drawing authority. The end of the present exploration was to formulate the herbal tooth greasepaint for forestallment of oral conditions. Different herbal medicines; Azadirachta Indica(Neem greasepaint), Acacia nilotica(Babul), Curcuma longa(Turmeric), Eugenia caryophyllus(Clove oil painting),(Cinnamon greasepaint), Sapindus mukorossi(ritha Greasepaint), Sodium saccharin(sucrose),(fennel Greasepaint), Pink Rock swab(sendha namak). The organoleptic property showed a unheroic green colour characteristics odour with a sweet taste. The humidity content of the greasepaint shows 1.54. The greasepaint has 4gm/ ml of bulk density. The angle of repose was determined to Find out the inflow property and it shows good inflow property. The constituents are used in the Present work, was screened and named to retain anti-microbial effect and to maintain oral Hygiene as it claimed by its results as effective tooth Greasepaint. It doesn't beget any dangerous goods, rather, it imparts good newness and down from bad Odour. Oral hygiene can be Maintained in a dependable, safe, and affordable way by using herbal tooth greasepaint.

Keywords: Oral hygiene, Herbal tooth powder, Acacia nilotica, Dental complaint



Mhangale

PRINCIPAL

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INTRODUCTION



Green UHPLC Method development for Quantification of Sofosbuvir and Velpatasvir in bulk and Pharmaceutical dosage form by stability study

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Abstract:

A straightforward, accurate stability-indicating green UHPLC technique for the simultaneous measurement of sofosbuvir and velpatasvir in mixed formulation was developed and verified in accordance with ICH recommendations. A UHPLC-3000 system from Analytical Technologies was used to obtain the separation. The ratio of ethanol to orthophosphoric acid in the mobile phase was 70:30 (V/V), with a flow rate of 1 mL/min kept at room temperature. Sofosbuvir and Velpatasvir had retention times of 2.23 min. and 4.34 min., respectively. Utilising UV detection at 260 nm, quantification was accomplished. The dosage form was subjected to photolytic stress, dry heat, alkali, oxidative stress, acid. Drugs and degradation products were clearly distinguished by the procedures. The created method's greenness has been evaluated by using various methodologies (including NEMI, GAPI, AES and AGREE). The results reveal a score of nine out of fifteen green pictograms for GAPI, four green portions in NEMI, a score of 91 for AES and a score of 0.89 for AGREE that shows the created approach is completely eco-friendly and adaptable as a sustainable method.

Keywords: Green Accessment, Sofosbuvir, Ultra pressure liquid chromatography, Velpatasvir, Stability-indicating method

Introduction

According to latest epidemiologic estimates, there are 150 million infected people globally with Hepatitis C Virus (HCV). Sofosbuvir (SFB) is a nucleotide analogue inhibitor of the HCV NS5B polymerase that has been licenced for use in the treatment of HCV in combination with other medicines. [1] Sofosbuvir (S) is a chemical compound. Isopropyl 2-((S)-(((2R,3R,4R,5R)-(((2R,3R,4R,5R)-((2R-5-(2,4-dioxo-3,4 dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy) (phenoxy)phosphorylamino) propanoate. It has the chemical formula C₂₂H₂₉FN₃O₉P and the atomic weight of 529.45. [2] Velpatasvir (VPV) is an NS5A inhibitor that is used to treat chronic hepatitis C infections in people with or without cirrhosis [3]. Velpatasvir has been available as a fixed-dose combination medication with Sofosbuvir under the brand name Epclusa. Epclusa is the first HCV combination medication approved for the treatment of all Hepatitis C genotypes with or without cirrhosis. [4] Velpatasvir has the chemical formula Methyl(2s)-1-[(2s, 5s)-2-(9-{2[(2s,4s)-1-{(2R)-2-[methoxycarbonyl] amino}-2-phenylacetyl-(4-(methoxymethyl)-2-pyrrolidinyl)-1H-imidazol-4-yl]-1,11-dihydroisochromeno[4,3:6,7]naphtho[1,2d]imidazol-2-yl)-5-methyl-1-pyrrolydiny]-3-methyl-1-oxo-2-butanyl} carbamate with molecular formula C₄₉H₅₄N₈O₈. The chemical structure of SFB and VPV are shown in (Figure 1).



Bhangale

PRINCIPAL



Eco-Friendly Stability Indicating HPLC Method for Estimation of Elbasvir and Grazoprevir by Quality by Design Approach

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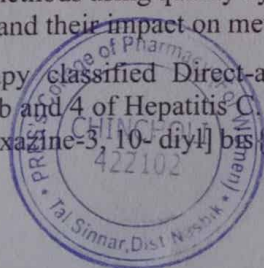
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Article History	Abstract
Received: 06 June 2023 Revised: 15 Sept 2023 Accepted: 26 Oct 2023	<p>Introduction: The pharmaceutical industry faces a significant problem as a result of the worldwide requirement to modify processes in order to comply with the green analytical chemistry (GAC) requirements. An enormous amount of organic hazardous waste is produced by high-performance liquid chromatography (HPLC), one of the methods employed the most frequently at different stages in the pharmaceutical sector. Aim: To develop analytical quality by design-aided stability indicating green high-performance liquid chromatography (HPLC) method for estimation of Elbasvir and Grazoprevir in a dosage form. Material and Methods: The critical chromatographic factors were the % of ethanol in the mobile phase, flow rate, and their overall effect on the responses like asymmetry, theoretical plates, and resolution were studied to optimize the method. Green analytical chemistry (GAC) has mainly focused on developing analytical methods that are safe for the environment. Therefore, it is imperative that the GAC principles be applied in pharmacological analysis. A rotatable central composite design was employed, and the optimized conditions for chromatographic separation were made with a run time of 5 minutes using Zorbax C18 column (4.6× 150 mm, 5 μm) with 0.1% Trifluoroacetic acid and ethanol (40:60 v/v) as components of a mobile phase, flowing at a rate of 1.0 ml/minute. Photodiode array detection was carried out at 253 nm. Results: The retention time was 1.8 min for EBS and 2.84 min for GZP. According to the ICH guidelines, the proposed method was validated and stress studies revealed that Elbasvir and Grazoprevir are prone to acidic, basic, and oxidation stress conditions. An analytical eco-scale score evaluated the greenness profile and a software-based evaluation. Conclusion: The developed HPLC method is eco-friendly and shall be adopted in the routine quality control of Elbasvir and Grazoprevir in a tablet dosage form.</p>
CC License CC-BY-NC-SA 4.0	Keywords: Green assessment, Elbasvir and Grazoprevir, Method Validation, QBD, Stability testing.

1. Introduction

Green chemistry is widely used in worldwide manufacturing, government policy, educational practice, and technology development. The main purpose of the circular economy is to establish a balance between economic growth, resource sustainability, and environmental protection. Green analytical chemistry (GAC), which results in a change in attitudes and behaviour in the chemical industry, can be viewed as an important tool for achieving sustainability.[1] The GAC refers to the development of new, effective analytical techniques that will allow for the reduction and/or removal of hazardous chemicals and chemical waste while also allowing for faster and more energy-efficient analysis. As a result, the aforementioned 12 green chemistry principles were adjusted to construct the main characteristics influencing the green character of analytical chemistry and place it in the role of GAC.[2] The development of greener analytical methods using quality by design (QbD) provides valuable knowledge about the use of greener chemicals and their impact on method performance.

Elbasvir (EBS) is first line therapy classified Direct-acting antiviral (DAA) and prevents viral replication in HCV genotypes 1a, 1b and 4 of Hepatitis C. It is chemically known as Dimethyl N,N+ - ((6S)-6H-indolo[1,2-C][1,3] benzoxazine-5, 10- diyl) bis (1H- imidazole- 5, 2- diyl- (2S)- pyrrolidine-



Simultaneous Estimation of Amlodipine and Enalapril Maleate by Stability Indicating UHPLC Method

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ABSTRACT

Objectives: The key objective of this work is to establish a stability-indicating UHPLC technique for measuring amlodipine and enalapril maleate in bulk and pharmaceutical formulations.

Materials and Methods: The mobile phase consisted of 0.02M KH₂PO₄ buffer: Methanol (70:30 v/v). The chromatographic separation was carried out using an Analytical Technologies UHPLC-3000 equipment in conjunction with a variable wavelength programmable UV identifier and a Rheodyne injector equipped with a 5 µL fixed circle. Detection was done at 224 nm with the flow rate of 0.3 mL/min. **Results:** Amlodipine's retention time was determined to be 0.7 min, while Enalapril's was 1.2 min. The linearity range for Amlodipine and Enalapril was discovered to be 5–25 µg/mL. The technique has been examined in accordance with ICH (International Conference on Harmonisation) standards. A procedure is precise and accurate if the %RSD is less than two. Amlodipine's limit of detection and quantitation ranges are 0.12–0.37 µg/mL and Enalapril's range is 0.10–0.30 µg/mL, respectively. The procedure proved to be simple, linear, swift, exact, accurate, repeatable, and reliable. The drug was prone to acid, basic, and oxidation conditions, according to the stress degradation research. **Conclusion:** Even in actual samples, the techniques clearly distinguished between the drugs and degradation products. The method was proved as a stability indicating method and can be used in practice for bulk and the dosage forms and also to evaluate the shelf life.

Keywords: Amlodipine, Enalapril, UPLC method, Method validation, Stability study.

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INTRODUCTION

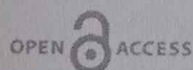
Amlodipine (ADP) is a medication often used to treat high blood pressure and angina. Amlodipine has antioxidant properties as well as the ability to stimulate the generation of Nitric Oxide (NO), a vasodilator that reduces blood pressure.¹ It is an antihypertensive medicine that belongs to the class of pharmaceuticals known as dihydropyridine calcium channel blockers. ADP is 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate; benzene sulfonic acid.²⁻⁴ The chemical structure are shown in Figure 1.

Enalapril (ELP) is a prodrug of the Angiotensin-Converting Enzyme (ACE) inhibitor family of drugs. It operates on the renin-angiotensin-aldosterone pathway, which regulates blood pressure as well as fluid and electrolyte balance. It is a non-sulphydryl anti-hypertensive medication that is used

orally. It was developed using molecular modelling to focus targeted research. Enalapril lowers blood pressure by relaxing and expanding blood arteries, making it simpler for the heart to flow blood throughout the body. Enalapril maleate has the chemical formula (2S)-1-[(2S)-2-[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl] amino propanoyl Z-pyrrolidine-2-carboxylic acid-butenedioate.⁵ The chemical structure of ELP is shown in Figure 2.

Hypertension is a medical condition in which the blood exerts a high pressure on the blood vessel walls. Because of this condition, the heart has to work harder to pump blood throughout the body. Stroke, heart failure, heart attack, and kidney failure are all major health concerns that can be caused by hypertension. Amlodipine and enalapril are used together to treat hypertension and successfully lower blood pressure. It works by relaxing blood arteries, allowing blood to flow more freely and allowing the heart to pump blood more efficiently. A review of the literature reveals that several UV,⁶⁻¹³ HPTLC,¹⁴⁻¹⁶ HPLC,^{13,16,17-27} and UPLC²⁸ techniques have been described for the ADP and ELP alone or in combination with other medicines. To the best of our knowledge, no UHPLC method for determining stability has been published for ADP and ELP combination dose form. The study's purpose is

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Bhangale

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“MENSTRUAL HYGIENE MATTERS – LETS TALK ABOUT IT”**Dr.Charushila J.Bhangale**

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ABSTRACT:

Background: Women's entire health is greatly impacted by their menstrual health, yet access to goods, good hygiene habits, and technological help are frequently obstacles. In order to create menstrual health interventions that are effective, it is imperative that these issues are understood.

Methodology: A thorough survey was carried out, utilizing a standardized questionnaire to collect information from a wide range of respondents. The consumption of period products, cleanliness habits, access to products in pharmacies, knowledge of menstrual disorders, and use of menstrual tracking apps were among the subjects of the survey.



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RESEARCH ARTICLE

Enhanced Solubility and Dissolution Rate of Aceclofenac using Freeze Drying Technique

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ABSTRACT

The purpose of this investigation was to determine whether lyophilization or freeze-drying Aceclofenac could improve the solubility of the medicine, making it more easily dissolved into tablets. The drug aceclofenac is classified as a biopharmaceutical classification system (BCS) class II medicine. The lyophilization process was facilitated by the addition of SLS as an adjuvant, which has the potential to enhance the dissolving rate. Aceclofenac was swiftly released from fast-dissolving tablets by including an appropriate ratio of PVP K-30. Aceclofenac from a lyophilized sample dissolved at a much faster pace than plain aceclofenac *in-vitro*. The amount of polymer had an effect on the dissolving rate. The dissolving efficiency of the drug and polymer is enhanced at a 1:2 ratio. Therefore, aceclofenac can be effectively dissolved using the lyophilization procedure.

Keywords: Fast dissolving tablet, Freeze drying, Solid dispersion, Solubility, Dissolution.

International Journal of Drug Delivery Technology (2023); DOI: 10.25258/ijddt.13.4.39

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Conflict of interest: None

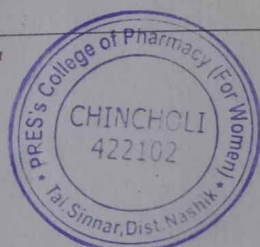
INTRODUCTION

Solubility, defined as the degree to which a solute dissolves in a solvent to produce a homogenous solution, is an important property to take into account when aiming to achieve the desired concentration of medication in the systemic circulation and the expected pharmacological response.¹ One of the biggest challenges in developing new chemical entities or generics is their low water solubility. Water is nearly insoluble for almost 40% of innovative chemical entities (NCEs) created by the pharmaceutical sector. Formulation scientists face a significant obstacle in solubility² in the site of absorption and must have a solution of any medicine that is to be absorbed. To improve the solubility of pharmaceuticals that aren't very soluble, researchers employ a wide range of strategies. Many more examples include physical and chemical modifications to drugs, engineering of crystals, production of salts, solid dispersion, usage of surfactants, complexation, and countless more. The method to improve solubility is decided by the drug's characteristics, the site of absorption, and the attributes sought for the dosage form, freeze-drying, or lyophilization, is a technique. The procedure begins with the sample being frozen in order to dry it, and then continues with the extraction

of any remaining moisture. Primary drying, which involves sublimation, and secondary drying, which involves desorption, are the two stages in the process of moisture removal.³⁻⁵ A technique known as freeze-drying or lyophilization relies heavily on the sublimation phenomena.^{6,7} When water goes straight from its solid to its vapor form, skipping the liquid phase entirely, this process is known as sublimation. Water can sublimate at temperatures as low as 0.0099°C and pressures as low as 4.579 mm Hg. In order to freeze-dry a sample, the liquid must first be frozen, and then it must be placed in a vacuum and slightly heated until it sublimates, becoming a dried sample. Lyophilization and freeze drying rely on the water vapor concentration gradient between the drying front and condenser to drive the elimination of all solvents, including water.⁸⁻¹⁰

One example of a phenylacetic acid derivative is aceclofenac, which is a member of a class of drugs known as NSAIDs. Light and hydrolytic stress (neutral, acidic, and alkaline) cause its degradation; it is a prodrug of diclofenac. When solid, the chemical is unaffected by heat, photolytic stress, or oxidative stress. Almost insoluble in water, it dissolves completely in acetone and is very soluble in ethanol (96%). The solid has a white crystal structure. It goes through

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Mhangals

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**DISSOLUTION METHOD DEVELOPMENT FOR THE SIMULTANEOUS
ESTIMATION OF AZILSARTAN MEDOXOMIL AND CHLORTHALIDONE
TABLETS BY USING RP-HPLC**

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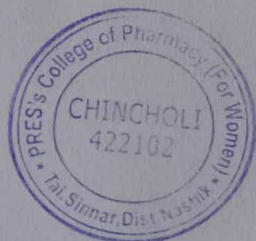
ABSTRACT:

The Dissolution method was developed and validated for simultaneous estimation of Azilsartan Medoxomil and Chlorthalidone. The mobile phase was consisting of 0.1% Trifluoroacetic acid in water: Methanol (10:90). The linearity range of Azilsartan Medoxomil was found to be 8-40 µg/ml and Chlorthalidone 5-25 µg/ml. The calibration curve was plotted and regression equation of Azilsartan Medoxomil was found to be $y = 85,121.65x + 74,943.20$ with correlation coefficient (r^2) of 0.9993 and Chlorthalidone $y = 1,12,305.88x - 41,488.20$ with correlation coefficient (r^2) of 0.9996. Detection was done at 254 nm and the retention time of Azilsartan Medoxomil was found to be 3.5 min and Chlorthalidone 5.6 min with the flow rate of 1.0 ml/min. From accuracy study % recovery of Azilsartan Medoxomil was found in the range of 98.51- 101.26% and Chlorthalidone is 98.37-101.15 % which is in the limits accordingly the ICH guidelines. From the dissolution profile the Optimized dissolution medium is 900 ml 0.1 N HCL using USP type 1 apparatus with 100 rpm speed at 37°C and sample withdrawal time point is 45 min. The method was found to be simple, linear, rapid, accurate, precise, reproducible and robust. The % RSD was found within limit as per ICH guidelines. The result showed that proposed Dissolution method was suitable for the accurate, precise and rapid simultaneous determination of Azilsartan Medoxomil and Chlorthalidone in its bulk form and pharmaceutical dosage form.

KEY WORDS: Azilsartan Medoxomil, Chlorthalidone, Dissolution method, HPLC, ICH Guidelines

INTRODUCTION:

A prodrug called azilsartan medoxomil is converted into azilsartan, a medication of the angiotensin-receptor blocking (ARB) drug class. It is an antagonist of the specific AT1 subtype of the angiotensin II receptor. An antihypertensive medication called azilsartan medoxomil, which was very recently created, received its initial FDA approval in February 2011. Many guidelines state that the clinical effectiveness of ARBs is equivalent to that of angiotensin-converting enzyme (ACE) inhibitors, which are also used as first-line treatments for hypertension, and that ARBs should be used as first-line therapy when beginning antihypertensive medication. [24]



RESEARCH ARTICLE

A Stability Indicating RP-HPLC Method for the Estimation of Nebivolol Hydrochloride in Human Plasma

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Received: 01st April, 2023; Revised: 22nd July, 2023; Accepted: 17th August, 2023; Available Online: 25th September, 2023

ABSTRACT

Nebivolol hydrochloride is used as a β_1 receptor and calcium channel blocker to treat hypertension. This research aims to provide novel stability indicating reverse phase high-performance liquid chromatography (RP-HPLC) approach for estimating nebivolol hydrochloride in human plasma. The protein precipitation technique used 5% formic acid and methanol to extract the plasma. The separation was accomplished by using Inertsil ODS-3V (150 mm X 4.6 mm, 5 μ m) column, using acetonitrile: 0.1% trifluoroacetic acid in water (40:60% v/v) as a mobile phase, at flow rate of 1.0 mL/min and detection was done on a photodiode array detector at 282 nm. The retention time was found to be 5.55 minutes. Linearity was observed between 4.50 to 180 μ g/mL with R^2 values of 0.999. No interference was detected in the drug retention times in selectivity and sensitivity. Accuracy as well as precision were observed within limit. All the analytical validation parameters were determined as per the USFDA guidelines. The stability study was conducted on NBH containing human plasma using two levels, LQC and HQC, exhibiting that the drug was stable under different conditions. The conveyed RP-HPLC method for estimation of NBH was simple, precise, and accurate; therefore, it can be used in bioavailability and bioequivalence studies, pharmacokinetics and toxicology studies of NBH in human plasma.

Keywords: Nebivolol hydrochloride, Method validation, Human plasma, Protein precipitation.

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Conflict of interest: None

INTRODUCTION

Chronically high blood pressure (BP) is the hallmark of hypertension, an asymptomatic disease affecting billions worldwide. Heart failure, stroke, renal illness, and myocardial infarction (MI) are some other conditions and occurrences that have been related to it.¹⁻³ One of the most commonly prescribed classes of cardiovascular medicines are β -blockers. As beta-adrenergic antagonists, they are utilized in treating BP.⁴ Nebivolol HCl (NBH) is a β_1 receptor blocker. It is chemically (1R)-1-[(2R)-6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl]-2-[[{(2R)-2-[(2S)-6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl]-hydroxyethyl] amino} ethan-1-ol hydrochloride (Figure 1). It is used alone or in conjunction with other medications to lower BP. Adrenergic agonist action at the beta-3 adrenergic receptor activates the endothelial nitric oxide synthase, which results in vasodilation and reduces BP.⁵ The cytochrome P-450 2D6 enzyme metabolizes it in the first pass.⁶ NBH is a lipophilic beta-blocker utilized to rehabilitate BP by elevating peripheral vascular resistance and improving stroke volume while keeping cardiovascular output constant. Figure 1 shows the NBH structure.

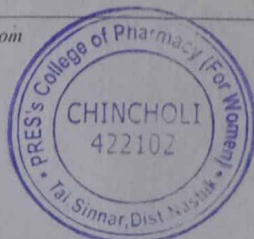
Previously reported data represent several chromatographic methods such HPLC, tandem mass spectrometry and UPLC for estimation of NBH were used.⁷ These methods have been reported to include maximum retention time for individuals and simultaneous estimation of NBH. Hence, this work aims to develop and validate simple, accurate, precise and less time-consuming new bioanalytical technique for assessing NBH in human plasma using the RP-HPLC method. The materials and procedures used to estimate drug in human plasma are covered in the next section.

MATERIALS AND METHODS

Chemicals

Mylan Laboratory Pvt. Ltd. in Nasik, India, provided the NBH as a gift sample. Analytical HPLC grade methanol, acetonitrile, orthophosphoric acid, ammonium acetate and trifluoroacetic acid were purchased from Qualigens (Thermo Fisher Scientific). The ultra-pure water of HPLC grade was procured from Moreshwar Enterprises, India.

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Formulation and Evaluation on Plant Based Collagen Powder

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ABSTRACT

Collagen is one of the main components of the extracellular matrix of the dermis and articular cartilage and influences the body's mechanical, organizational, and tissue formation properties. Produced from food industry by-products, it is considered a nutraceutical product widely used as an ingredient or supplement in food, pharmaceutical, and cosmetic industries. This study aimed to conduct a literature review on the scientific evidence regarding the beneficial effects of collagen consumption in the treatment of skin and orthopedic diseases. Literature data have shown that hydrolyzed collagen supplementation promotes skin changes, such as decreased wrinkle formation; increased skin elasticity; increased hydration; increased collagen content, density, and synthesis, which are factors closely associated with aging-related skin damage. Regarding orthopedic changes, collagen supplementation increases bone strength, density, and mass; improves joint stiffness/mobility, and functionality; and reduces pain. These aspects are associated with bone loss due to aging and damage caused by strenuous physical activity. Thus, this review addresses the economic and health potential of this source of amino acids and bioactive peptides extracted from food industry by-products. This study aimed to formulate and evaluate a plant-based collagen powder for anti-aging applications. The formulation process involved selecting suitable plant-derived ingredients rich in collagen-boosting compounds such as amino acids, vitamins, and antioxidants. Various plant sources including soy, wheat, and algae were utilized to extract collagen-like peptides. These peptides were then combined with other bioactive compounds to enhance their efficacy in promoting skin elasticity, hydration, and reducing the appearance of wrinkles.

Keywords: Collagen, Anti-aging, Antioxidant, Herbal, Antimicrobial

INTRODUCTION

The development of science, improvements and innovations in the field and industry of food and access to sanitation and education contribute to increase human life expectancy. However, access to these factors is not uniform worldwide, making it a privilege of developed countries, where life expectancy is higher than 80 years old while in some African countries, in 2019, life expectancy ranged from 53 to 76 years old [1]. The increase in life expectancy carries with it senescence, promoting progressive and cumulative functional and structural changes in the human body [2].

Collagen is a very important protein in the aging process, since it influences the structural, mechanical, organizational, and tissue-building properties of the body [3]. This protein interacts with cells by several families of receptors, regulating their proliferation, migration, and differentiation, and some types of collagen have a restricted distribution in tissues and, therefore, a specific biological function [4]. Besides being a source of amino acids, collagen products can perform a biological activity in extracellular matrix cells by their bioactive peptides, which justify their application in dietary supplements and pharmaceutical preparations [5].

Collagen is extracted from industrial by-products, such as bones, cartilage, tendons, and the skin of cattle, pigs, chickens, fish, or other marine organisms, and may undergo a hydrolysis process to obtain bioactive peptides [[6], [7], [8]]. The variables and methods applied in protein hydrolysis influence the composition of the peptides present in the final product and can impact the molecular weight, the amino acid composition, and the solubility and functionality of the product [6,7,9]. The molecular weight of collagen peptides can range from 0.3 to 8 Kda [10] and low-molecular-weight peptides usually have better bioactivity compared with higher-molecular-weight peptides [11].

According to Sibilla et al. [10], the advantage of using collagen hydrolysates over native collagen is their high digestibility rate, which contributes to increased absorption, distribution, and use in the human body.



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FORMULATION AND EVALUATION OF HERBAL ANTI-MICROBIAL TOPICAL PREPARATION

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Abstract

Background: Herbal medicine is the sign of modern medicine and drug development. In this study we use two herbal drug as an active pharmaceutical ingredient first is an Azardichata indica second one is Occimum sanctum i.e. neem and tulsi respectively. Using this two active ingredient, we formulated anti-microbial herbal topical preparation. **Materials and Methods:** In this formulation, neem oil and tulsi soft extract used as anti-microbial agent and honey, camphor, lemon juice, bees wax used as pharmaceutical excipient which act as anti-oxidant, penetrating agent, pH modifier, ointment base respectively. Topical preparation was formulated using hot diffusion method. The anti-microbial topical preparation was evaluated for various evaluation parameters which include colour, odor, pH, viscosity, spreadability, homogeneity, texture, after feel, removal study, type of smear, stability studies and in-vitro anti-microbial stability. **Results:** Significant antimicrobial effect was observed with





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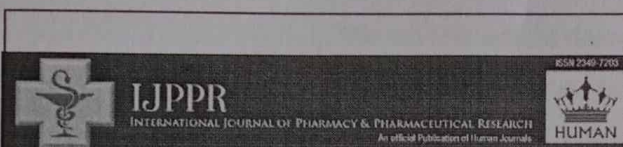
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Review Article

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A Review on Formulation of Sustain Release Tablets



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Keywords: Oral Drug Delivery System, sustained release dosage forms.

ABSTRACT

Oral ingestion is most convenient and commonly employed route of drug delivery due to its ease of administration, least aseptic and flexibility in the design of dosage form. Sustained drug release formulations are quite helpful in treating chronic diseases. The design of oral sustained release delivery systems is subjected to several interrelated variables of considerable importance such as the type of delivery system, the disease being treated, the patient, the length of therapy and the properties of the drug. DDS depends on various factors such as, physicochemical properties of drug, type of delivery system, disease being treated, and patient condition, and treatment duration, presence of food, gastrointestinal motility, and co-administration of other drugs sustain release system includes any drug delivery systems that achieves slow release of drug over prolong period of time. Now a days the technology of sustained release is also being applied to veterinary products also. Sustained Release is also providing promising way to decrease the side effect of drug by preventing the fluctuation of the therapeutic concentration of the drug in the body. The release of the drug through such system includes both dissolution controlled as well as diffusion controlled mechanisms, Most of drugs, if not formulated properly, may readily release the drug at a faster rate, and are likely to produce toxic concentration of the drug on oral administration.



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3D BIOPRINTING OF TISSUE AND ORGAN: AN OVERVIEW

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ABSTRACT

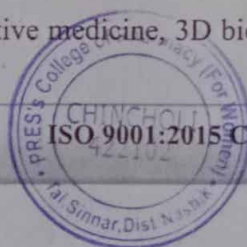
This review article delves into the exciting realm of 3D bioprinting, an innovative technology with the potential to revolutionize regenerative medicine. With a primary focus on addressing the critical issue of organ shortages, 3D bioprinting has emerged as a beacon of hope. This technique enables the precise fabrication of living tissues and organs by strategically assembling biological materials, cells, and support structures. The text explores the fundamental principles, methods, and materials used in 3D bioprinting, emphasizing the importance of biocompatible "bioinks." The applications of 3D bioprinting are diverse and promising, ranging from the generation of multilayered skin to the development of high-throughput tissue models for drug discovery and toxicology studies. However, this technology is not without its challenges. Complexities such as material selection, cell incorporation, and the recreation of intricate biological micro-

architectures demand a multidisciplinary approach. The collaborative efforts of experts from various fields are propelling innovation and progress in 3D bioprinting. As we advance in research and technology, the dream of routinely printing functional human tissues and organs draws closer, promising a future where transplantation becomes more accessible and effective.

KEYWORDS: Biofabrication, 3D bioprinting, Biomaterial, Tissue generation.

INTRODUCTION

The process of creating complex living and non-living biological products using living cells, chemicals, extracellular matrices, and biomaterials as starting points is known as biofabrication.^[1] A new frontier in regenerative medicine, 3D bioprinting offers a glimpse of



**FORMULATION EVALUATION AND DEVELOPMENT OF ANTIMICROBIAL
EFFECT OF NOVEL POLYHERBAL MOUTHWASH**

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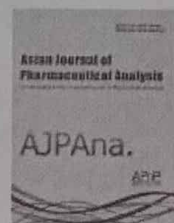
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RESEARCH ARTICLE

Method Development and Validation of Alcaftadine Drug in Bulk and Dosage Form by RP-HPLC

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ABSTRACT:

RP-HPLC method until now no analytical method by RP-HPLC was reported for its determination in bulk drug and in pharmaceutical dosage forms. Hence, in the present study, a new, sensitive, suitable and robust reversed-phase high performance liquid chromatography method was developed and validated for the determination of Alcaftadine in bulk drug and in dosage form. In RP-HPLC method, Water: Methanol 0.1% OPA. (80:20 %V/V) was used as mobile phase, at a flow rate of 1.0 ml/min, on RP-HPLC system containing UV- detector with Openlab Ezchrom workstation Software with Water Kromasil C18 column (250 mm x 4.6mm ID; 5 μ m) & column oven temp is 40°C. The Wavelength was carried out at 282 nm. The method gave suitable retention time i.e. 8 min for Alcaftadine. The results of analysis in the method were validated in terms of Filter study, Solution stability, specificity, Linearity, accuracy and range, precision (Repeatability and intermediate precision), limit of detection, limit of quantification and robustness. A simple and precise method was developed for the assay of Alcaftadine in bulk drug and in Dosage form. The method need regular reagents for doing analysis and also less time consuming, it can be performed routinely in industry for routine analysis of bulk drug and marketed product of Alcaftadine.

KEYWORDS: RP-HPLC, Alcaftadine, Methanol, Validation.

INTRODUCTION:

In pharmaceutical industries, the validation of analytical method is used to demonstrate that the method is fitted for its purpose; it must follow a plan which includes scopes, Performance characteristics, and acceptance limits. Analytical methods need to be validated or revalidated prior to their introduction into routine analyses. Chromatography is an analytical techniques based on the separation of molecules due to differences in their structure and/or composition.

In general, Chromatography involves moving a sample through the system over a stationary phase. The molecules in the samples will have different affinities and interaction with the stationary support, leading to separation of Molecules. Samples components that display stronger interaction with the stationary phase will move more slowly through the column than components with weaker interaction. Different compounds can be separated from each other as they move through the column. Chromatographic separation can be carried out using a variety of stationary phases. High-Performance liquid chromatography (HPLC) is types of liquid Chromatography used to separate and quantify compounds that have been dissolved in Solution. HPLC can be used to determine the amount of a specific compound in a solution¹.



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**DEVELOPMENT AND VALIDATION OF RP -HPLC METHOD FOR THE
SIMULTANEOUS ESTIMATION OF NALOXONE HCL AND BUPRENORPHIN
HCL IN BULK AND TABLET DOSAGE FORM**

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A Novel, Simple Method Development and Validation: Force Degradation Studies of Dapagliflozin By UV Spectroscopy

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ABSTRACT

A simple, sensitive, precise, accurate, economic and rapid visible spectroscopic method has been developed for estimation of dapagliflozin in API. Dapagliflozin was subjected to different stress conditions as per ICH guideline Q1A (R2). A stability- indicating UV Spectroscopic method has been developed for analysis of the drug in the presence of the degradation products. Water and Methanol (70:30) is used as a solvent for force degradation study. Degradation of Dapagliflozin was studied in acid, alkaline, hydrogen peroxide, photolytic, thermal. The amount of Degraded drug was calculated by taking absorbance at 284 nm. The linearity for dapagliflozin was found to be in the range of 10 -60 ug/ml with the regression coefficient of 0.999. The drug was found to be more liable to decompositions in acidic, alkaline, oxidative, than in photolytic and thermal conditions. Photolytic degradation at 254nm. About 5-20% of degradation is observed in thermal degradation. If no degradation is achieved then molecule is stable. This method can be used for determination of Dapagliflozin in quality control of formulations without interferences of the excipients.

Keywords – Dapagliflozin , U V spectroscopy, API , Internationally Conference for harmonization.

INTRODUCTION:

Dapagliflozin belongs to a new class of oral anti Diabetic drugs, called Sodium Glucose Co-transporter 2 (SLGT2) inhibitors. These sodium Glucose co-transporters are responsible for glucose Reabsorption in the kidney. Hence inhibiting the SLGT2 have been proposed as a new strategy in the treatment of diabetes.

It is defined in chemical terms as (1S)-1, 5-anhydro-1-C-[4-chloro-3-[(4-ethoxy phenyl) methyl]-D-glucite. Structure Of Dapagliflozin shown in Figure 1. This is ethanol, methanol, Dimethyl-sulfoxide, and dimethyl-formamide soluble white Crystalline powder. Dapagliflozin is category III in the Biopharmaceutical Classification System (BCS) according To the European Medicines Agency (EMA), which is more soluble, and almost impermeable.

Dapagliflozin is effective and decreases both Weights of the body and blood pressure. This drug is efficient In type 2 diabetes mellitus (DM) patients, both as a single Agent, as well as, in combination with other antidiabetic Agents. In addition, recent studies have shown relatively Fast action of dapagliflozin, with decreases in fasting Plasma glucose levels within one week of treatment.^{[1][2][3]}

EXPERIMENTAL :

Preparation of solvent solution :

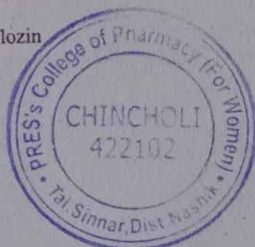
The solvent solution was prepared by mixture of water & methanol in the proportion of 70:30.

Preparation of standard stock solution :

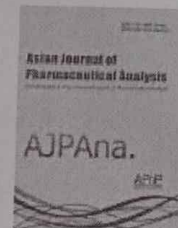
The standard stock solution was prepared by dissolving 10 mg Dapagliflozin in 100 ml of solvent of water & Methanol (70:30).

METHOD :

Instruments	- UV spectroscopy
Type	- Double beam
Drug	- Dapagliflozin
Solvent	Water + Methanol - (70:30)



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RESEARCH ARTICLE

Method Development and Validation of Irbesartan by RP-HPLC

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ABSTRACT:

A simple, sensitive, rapid and selective isocratic reversed phase High Performance Liquid Chromatographic (HPLC) method has been developed for Irbesartan from bulk drug using a mobile phase consisting mixture of Methanol: Water (pH 2.8) (80:20v/v) at the flow rate of 1.0 mL/min. A Cosmosil C18 (250cm x 4.6mm, 5µm) column was used as stationary phase. The retention time of Irbesartan found to be 3.30 min. The eluent were detected at 209nm. Linearity was observed in the concentration range of 60-100ppm for Irbesartan. Percent recoveries obtained for Irbesartan were 98.66%. The correlation coefficient for Irbesartan was found to be 0.997. After performing analysis by different analysts, it was found that the RPHPLC method for the determination of Irbesartan was found to be Rugged. Percent RSD for robustness was well within the acceptable USP limits, ensuring that the proposed method was robust. The LOD were 0.074µg/ml Irbesartan. For Irbesartan, the LOQ were found to be 0.24µg/ml. This demonstrated that the developed RP-HPLC method was simple, linear, precise, accurate, robust, and Rugged, could be conveniently adopted for the routine quality control analysis of Irbesartan.

KEYWORDS: Irbesartan, HPLC Method, Mobile phase, Validation, Method Validation.

1) INTRODUCTION

Validation is defined as "documented evidence which gives a high degree of confidence that a process, system, facility will consistently produce a product meeting its predetermined specifications and quality attributes."¹

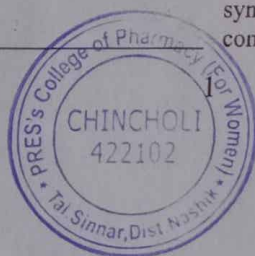
Method validation:

Method validation is the process of providing an analytical method that is acceptable for its intended purpose. For pharmaceutical methods, guidelines from the International Conference on Harmonization (ICH)² and the Food and Drug Administration (FDA) provide a framework for performing such validations.

In general, methods for regulatory submission must include studies on specificity, linearity, accuracy, precision, range, detection of limit, quantification of limit, and robustness.³

1. Accuracy:

Accuracy is the measure of exactness of an analytical method, or the closeness of an agreement between the values, which is accepted either as a conventional, true value or an accepted reference value and the value found. It is measured as the percent of analyte recovered by assay, by spiking samples in a blind study. For the assay of the drug substance, accuracy measurements are obtained by comparison of the results with the analysis of a standard reference material, or by comparison to a second, well-characterized method. For the assay of the drug product, accuracy is evaluated by analyzing synthetic mixtures spiked with known quantities of components.⁴



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Evaluation of Synergistic Effect of *Camellia Sinensis* and *Trachyspermum Ammi* for Anti-Inflammatory

Mayur Trimbak Gaikar¹, Rahul Rajendra Kunkulol²

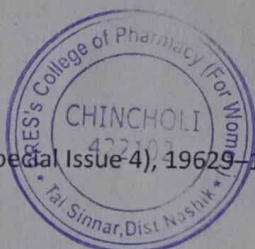
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2. Professor & Head Department of Pharmacology, Directorate of Research, PIMS (DU),
Loni., MH

Abstract: In medicine, plant offer a great range of natural component belongs to different molecular families which have interesting biological activities which enchant various researchers to their illumination to give knowledge that will lead to advances in medicines, The physical and botanical characteristics of the leaves are authenticated by an expert botanist. 15 g of dried green tea leaves is mixed with 150 ml of acetone or ethanol (75%) or aqueous for 1 min using an Ultra Turax mixer (13,000 rpm), Phytochemical tests for confirming the presence of carbohydrates, reducing sugars, tannins, flavonoids, saponins, phytosterols and fixed oils and fats in aqueous and alcoholic extracts of *Camellia Sinensis*. *Camellia sinensis* and *Trachyspermum ammi* may be beneficial as adjuvants in addition to conventional anti-inflammatory drugs since they potentiated the anti-inflammatory action of ibuprofen in the relevant inflammatory models.

Keywords: Anti-inflammatory, herbal plants

1. Introduction

From the very ancient time to till now the plants have been the basis of more traditional medicines systems throughout the world and further continued to furnish mankind with new remedies. The several varieties of medicinal plants and their purified components and natural products from the medicinal plants give immense opportunities for new drug development due to the unparalleled convenience of diverse chemical compounds [1]. The enhancing the




✓ No. of IPs generated, published and granted: 2

Sr. No	Name of Author	Patent Details	Title
1	Dr. Atul Nivrutti Khadse Dr. Sachin Balkrishna Somwanshi Dr. Kiran Babasaheb Kotade Dr. Vinayak Madhukar Gaware Dr. Kiran Bhausahab Dhamak	Design Grant Patent Application No.:409064-001_ Cbr No.: 203360 Cbr Date: 29/02/2024 Journal No.: 15/2024 and Journal Date: 12/04/2024	Melting Point Apparatus For Laboratory Use
2	Dr. Atul N. Khadse	Design Grant Patent Application No.: 408131-001_ Cbr No.: 203360 Cbr Date: 20/02/2024 Journal Date: 23/04/2024	Hand-Operated Pellet Press For Laboratory Use



P. Hengale

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सत्यमेव जयते

पेटेंट कार्यालय, भारत सरकार **The Patent Office, Government Of India**

डिजाइन के पंजीकरण का प्रमाण पत्र **Certificate of Registration of Design**

डिजाइन सं. / Design No. **409064-001**

तारीख / Date **29/02/2024**

पारस्परिकता तारीख / Reciprocity Date* **10/04/2024**

देश / Country **भारत**

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MELTING POINT APPARATUS FOR LABORATORY USE** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में **1.Dr. Atul Nivrutti Khadse 2. Dr. Sachin Balkrishna Somwanshi 3.Dr. Kiran Babasaheb Kotade 4.Dr. Vinayak Madhukar Gaware 5.Dr. Kiran Bhusaheh Dhamak** के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-02** in respect of the application of such design to **MELTING POINT APPARATUS FOR LABORATORY USE** in the name of **1.Dr. Atul Nivrutti Khadse 2. Dr. Sachin Balkrishna Somwanshi 3.Dr. Kiran Babasaheb Kotade 4.Dr. Vinayak Madhukar Gaware 5.Dr. Kiran Bhusaheh Dhamak**.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि: **10/04/2024**

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकता। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of registration, or for obtaining registration abroad, in accordance with the provisions of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.





ORIGINAL
क्रम सं/Serial No. : 165657



INTELLECTUAL PROPERTY INDIA
PATENTS, DESIGNS & TRADE MARKS
भारत सरकार, बौद्धिक संपत्ति कार्यालय, भारत सरकार, Intellectual Property Office, Government of India.



पेटेंट कार्यालय, भारत सरकार
The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : भारतसं२२२४ ४०८१३१-००१

तारीख / Date : २०/०२/२०२४

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country : भारत

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **HAND-OPERATED PELLET PRESS FOR LABORATORY USE** से संबंधित है, का पंजीकरण, श्रेणी २४-०२ में १. Dr. Avijit Choudhury २. Dr. Sunil Kumar Kadiri ३. Dr. Atul N. Khadse ४. Dr. Bhrugesh P. Joshi ५. Ms. Gandhi Sonam Mukeshchandra के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to **HAND-OPERATED PELLET PRESS FOR LABORATORY USE** in the name of 1. Dr. Avijit Choudhury 2. Dr. Sunil Kumar Kadiri ३. Dr. Atul N. Khadse ४. Dr. Bhrugesh P. Joshi ५. Ms. Gandhi Sonam Mukeshchandra.

डिजाइन अधिनियम, २००० तथा डिजाइन नियम, २००१ के अध्याधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, २००० and the Designs Rules, २००१.



महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

जारी करने की तिथि : २३/०४/२०२४
Date of Issue : 23/04/2024

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबन्धों के अधीन, पांच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।
The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



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8. TOTAL NUMBER OF SEMINAR/ WORKSHOP/ CONFERENCE/ WEBINAR/ FDP ATTENDED BY TEACHERS: 2023-2024

Name of the staff	No. of Seminars/ Webinars attended (State/ National/ International)			No. of Conferences/ Symposium attended (State/ National/ International)			Workshop/ FDP/ STTP/ Training	Poster Presentation/ Paper published in Seminar/ Conference & or Competition	Total				
	S	N	I	S	N	I							
	Dr. C. J. Bhangale	-	1	-	-	-				1	-	1	3
	Dr. K. B. Kotade	-	-	-	-	-				-	-	-	0
Dr. A. N. Khadse	-	-	-	-	-	-	2	-	2				
Dr. K. B. Dhamak	-	-	-	-	-	-	-	-	0				
Dr. S. B. Somwanshi	-	4	-	-	-	-	4	2	10				
Dr. V. M. Gaware	-	-	-	-	-	-	1	1	2				
Mr. V. D. Kunde	-	1	-	-	-	1	1	1	4				
Mrs. K. T. Vaditake	-	-	-	-	-	-	3	1	4				
Mr. M. T. Gaikar	-	-	-	-	-	-	2	-	2				
Mr. R. D. Khaire	-	3	-	-	-	-	2	1	6				
Mrs. R. M. Sharma	-	-	-	-	-	-	3	-	3				
Ms B. S. Sayyed	-	-	-	-	-	-	2	-	2				
Ms. R. V. Pagare	-	1	-	-	1	-	1	-	3				
Mrs N. S. Kadbhane	-	1	-	-	-	-	1	-	2				
Mrs. S. J. Chothave	-	1	-	-	1	-	4	-	6				
Ms. S. B. Gosavi	-	-	-	-	-	-	1	-	1				
Mr. B. T. Jagtap	-	1	-	-	-	-	1	-	2				
Mrs. S. D. Jadhav	-	-	-	-	1	-	1	-	2				
Mrs. A. S. Kadam	-	1	-	-	1	-	3	-	5				
Total		14			4	2	32	7	59				



P. Bhangale

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PAPER PRESENTATION IN INTERNATIONAL LEVEL CONFERENCES & SEMINAR

Sr No	Name of Teacher	Name of Seminar/ Conference/ Workshop	Level I/ N/ S	Organized by	Place	Date
1	Dr. C. J. Bhangale	Presented paper entitled "Green chemistry solutions: Natural beads as eco-friendly alternatives to microplastic beads in facewash" in International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023)	I	Green Chemistry Network Center Chapter, Akal University, Talwandi Sabo, Bathinda, Punjab, India	Online	06/09/2023 & 07/09/2023
2	Dr. S. B. Somwanshi	Presented paper entitled "Formulation development and evaluation of Antifungal emulgel by using Miconazole Nitrate" in International Conference on Recent Advances on Green and Sustainable Developments	I	International Conference on Recent Advances on Green and Sustainable Developments organized by School of Pharmacy, G. H. Raison University, Saikheda, Chhindwara, M.P. in association with APTI State Branch MP	Online	27/10/2023 & 28/10/2023
3	Dr. S. B. Somwanshi	Presented paper entitled "Formulation development and evaluation of ocular in-situ gel of ciprofloxacin using low methoxy	I	GES's, Sir Dr. MS Gosavi College of Pharmaceutical Education and Research,	Online	23/02/2024 & 24/02/2024



		pectin” in Two days conference on Emerging Trends in Drug Delivery and Development		Nashik		
4	Dr. V. M. Gaware	Presented paper entitled “Design, Characterization and microwave assisted synthesis of Biological active scaffolds for anticancer activity” in International Conference on Recent Advances on Green and Sustainable Developments	I	School of Pharmacy, G. H. Raison University, Saikheda, Chhindwara, M.P. in association with APTI State Branch MP	Online	27/10/2023 & 28/10/2023
5	Ms. K. T. Vaditake	Presented paper entitled “Bioanalytical methods implemented for Beta blockers in single or combined dosage form” in International Conference on Recent Advances on Green and Sustainable Developments	I	School of Pharmacy, G. H. Raison University, Saikheda, Chhindwara, M.P. in association with APTI State Branch MP	Online	27/10/2023 & 28/10/2023
6	Mr. V. D. Kunde	Presented paper entitled “Green chemistry solutions: Natural beads as eco-friendly alternatives to microplastic beads in facewash” in International Conference on Recent Advances on Green and Sustainable Developments	I	Green Chemistry Network Center Chapter, Akal University, Talwandi Sabo, Bathinda, Punjab, India	Online	06/09/2023 & 07/09/2023
7	Mr. R. D. Khaire	Presented paper entitled “Development Of Stability Indicating	I	School of Pharmacy, G. H. Raison	Online	27/10/2023 & 28/10/2023



		Analytical Methods For Some Drugs In Bulk And Pharmaceutical Dosage Forms” in International Conference on Approach to Pharmaceutical Insight Through Interdisciplinary Research		University, Saikheda, Chhindwara, M.P. in association with APTI State Branch MP		3
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**DETAILS OF SEMINAR/ WORKSHOP/ CONFERENCE/ WEBINAR/ FDP
ATTENDED**

Sr. No	Name of Teacher	Name of Seminar/ Conference/ Workshop	Level I/N/S	Organized by	Place	Date
1.	Dr. C. J. Bhangale, Mrs. S. J. Chothave	Seminar on Biotechnology prospective in healthcare and nutraceuticals	N	Sanjivani college of Pharmaceutical education and research, Kopargaon	Online	24/02/2024
2.	Dr. C. J. Bhangale & Mr. V. D. Kunde	Conference on Recent Advances on Green and sustainable Developments	I	Akal University, Panjab	Online	06/09/2023-08/09/2023
3.	Dr. A. N. Khadase & Dr. V. M. Gaware	One-day workshop on "Basics of molecular docking and hands on training"	N	Pravara Rural College of Pharmacy, Loni	Loni	20/12/2023
4.	Dr. A. N. Khadase, Dr. S. B. Somwanshi, Ms. K. T. Vaditake, Mrs. R. M. Sharma, Mr. R. D. Khaire, Ms. B. S. Sayyed, Ms. S. B. Gosavi, Mrs. S. J. Chothave	One week International e-FDP on "Recent Advancement in Pharmaceutics: Academic, Research, Ethics and Social Perspective" in association with APTI, MS	I	GES's, Sir Dr. MS Gosavi College of Pharmaceutical Education and Research, Nashik	Online	11/03/2024 to 16/03/2024
5.	Dr. S. B. Somwanshi, Ms. K. T. Vaditake, Ms. B. S. Sayyed, Mrs. S. J. Chothave	National Faculty e-development Program on "Implementing ER 2020: Challenges and Opportunities" in association with APTI, MS	N	MET's, Institute of Pharmacy, Nashik	Online	07/07/2023 to 08/07/2023
6.	Dr. S. B. Somwanshi	National Level Webinar Titled "Development of Research Instrument" Organized by Research Cell	N	Nirmala Memorial Foundation College of Commerce and Science, Mumbai	Online	12/08/2023
7.	Dr. S. B. Somwanshi & Mr. R. D.	Webinar on "Quality Cosmetics: Role of Evolving	N	The Society of Pharmaceutical Sciences and	Online	27/08/2023



	Khaire	Technologies and Regulations”		Research		
8.	Dr. S. B. Somwanshi	Webinar on the “IPR on the Era of Digital Transformation”	N	The Society of Pharmaceutical Sciences and Research	Online	08/10/2023
9.	Dr. S. B. Somwanshi & Mr. R. D. Khaire	One day webinar on “Emerging trends in Co-processed Excipients & Architecting Dosage Forms”	N	GES's, Sir Dr. MS Gosavi College of Pharmaceutical Education and Research, Nashik	Online	28/10/2023
10.	Dr. S. B. Somwanshi, Ms. K. T. Vaditake, Mrs. R. M. Sharma, Mr. R. D. Khaire, Mr. M. T. Gaikar, Mrs. A. S. Kadam	e-FDP on “Strengthen Marginal: Reconcile the latest and Enhancement in Pharmaceutical Science” under theme “Improving Boundaries between the Research and Implementation in Pharmaceutical Sciences”	N	Sree Sastha Pharmacy College, Chembarabakka, Chennai	Online	26/03/2024 to 28/03/2024
11.	Dr. S. B. Somwanshi	One-day workshop on “Literature Search”	N	Centre for Publication Ethics Savitribai Phule Pune University, Pune	Online	30/03/2024
12.	Mr. V. D. Kunde	Futuristic Innovations in Pharmaceutical Area	N	GES's, Sir Dr. MS Gosavi College of Pharmaceutical Education and Research, Nashik	Online	26/08/2023
13.	Mr. R. D. Khaire	National webinar on solid shall be alternate source to replace harmful organic solvent in future (mixed solvency concept)’	N	The Society of Pharmaceutical Sciences and Research (SPSR)	Online	06/08/2023
14.	Mrs. R. M. Sharma, Mrs. A. S. Kadam	Workshop on How to write research paper for high impact factor publication	State	Amrutvahini College of Pharmacy,	Sangamner	10/01/2024
15.	Mr. M. T. Gaikar & Mr. B. T. Jagtap	One Week Training program on Regulatory Affairs and Intellectual	N	Skill India under LSSSDC	Online	05/02/2024

		Property (IVD and Medical Devices) (LFS/Q0513)				
16.	Mr. B. T. Jagtap, Ms. R. V. Pagare, Mrs. N. S. Kadbhane	Seminar on Commercial Product Development in Academic Institute	N	MET's, Institute of Pharmacy, Nashik	Nashik	10/04/2024
17.	Ms. R. V. Pagare	Conference_APTI	N	PSIT Kanpur	Kanpur	02/09/2023 & 03/09/2023
18.	Mr. V. D. Kunde, Ms. R. V. Pagare, Mrs. N. S. Kadbhane, Mrs. S. J. Chothave	e-FDP on "Advanced Research Methodology Workshop"	N	DIGISKILLS center, A.C.T Academy, Tamilnadu	Online	22/11/2023 to 30/11/2023
19.	Mrs. S. J. Chothave	Conference on Advancements in Pharmaceutical Innovation: Exploring benefits and opportunities	I	Swami Vivekanand Subharati University	Online	02/12/2023
20.	Mrs. S. J. Chothave, Mrs. S. D. Jadhav	Workshop on Pharmaceutical research methodology in the modern era	N	Yash Institute of Pharmacy Sambhajinagar	Online	29/05 & 30/05/2024
21.	Mrs. S. D. Jadhav	Conference on Traditional Medicine	I	SMBT College of Pharmacy	Dhama ngaon	05/01 & 06/01/2024
22.	Mrs. A. S. Kadam	Webinar on Drug Discovery From Herbal sources with Advanced Instrumentation	N	School of Pharmaceutical Sciences and Research, Nashik	Nashik	17/12/2023
23.	Mrs. A. S. Kadam	Conference on Recent Perspective in Nanomedicine	N	School of Pharmaceutical Sciences, Nashik	Nashik	06/03 & 07/03/2024
24.	Mrs. A. S. Kadam	Short Term Course Medical Scribe Certificate Course	N	Academic Decipher Mumbai	Online	1Month_Sept 2023



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9. MOU'S/ COLLABORATION:

College have 12 functional MoUs with industry/institute to promote research culture in the college.

**LIST OF FUNCTIONAL MOUs WITH CONTACT DETAILS
(2023-24)**

Sr. No	List of Partnering Agency	Contact Details
1	Biotox Research & Dignostic Lab	Biotox Research & Dignostic Lab , Plot No. GEN-17/13, Behind SBI Bank, Near Sakal Circle, Satpur MIDC, Nashik-422007, Maharashtra, India Contact : 0253-2995141 +91-9022736821 / +91-9136239609 Email : info@biotoxlab.in
2	Cu-Succed Organization Kharadi, Pune	Cu-Succed Organization Kharadi, Pune VTP, Kharadi, Pune Contact : +91 8446686600 Email : connect@cusucceed.in
3	Empower Research & Training Institute, Bengaluru	Empower Research & Training Institute, Bengaluru , India 780, Nirmala Arcade, 1st floor, JK, 80 Feet Rd, 4th Block, Koramangala, Bengaluru, Karnataka 560034 Contact : 8050276200 Email : https://emrti.com/
4	Genome Biotech Pvt. Ltd., Sinnar	Genome Biotech Pvt. Ltd., Sinnar Plot No. D-121,122 & 123, Malegaon Industrial Area, Malegaon, Maharashtra 422113 Contact No: +91 22 6146 9000
5	G-pat Discussion Centre Pvt. Ltd. Bilaspur	G-pat Discussion Centre Pvt. Ltd. A-402 Pooja Park, Sarkanda. Bilaspur (C.G.)- 495001. Contact: 8602227444, 9770765680. Email: gdcgpat037@gmail.com
6	Kite AI Technologies Pvt. Ltd. Pune	KITE-Ai Technologies Pvt. Ltd. AWFIS 3rd Floor, ABIL Square, Amar Atrium, PAN Card Club Road, Baner, Pune, Maharashtra - 411045 Email : info@kite-ai.com Tel: +91-7385 518324
7	Manpriya Foundation, Mumbai	Manpriya Foundation , 6th, Ackruti Trade Centre, B wing, BhimNagar Rd, Kondivita, Andheri East, Mumbai, Maharashtra 400093 Email :info@manpriya.org



8	RAP Analytical Research and Training Center, Nashik	RAP Analytical Research and Training Center, Nashik Contact Person: Mr. Rohan Pawar Contact No. 7666406674 www.rapanalytical.com
9	Sangeeta Pharma, Sinnar, Nashik	Sangeeta Pharma, Sinnar, Nashik A-35, M.I.D.C. Malegaon, Sinnar, Dist. Nashik - 422103, Maharashtra, India Contact No: +91 9167041905 / +91 9920063173 responce@sangeetapharma.in
10	Sanpras Healthcare Pvt. Ltd., Sinnar	Sanpras Healthcare Pvt. Ltd 81, STICE, Musalgaon, Sinnar, Nashik 422 112 Maharashtra (INDIA) Contact No: (02551) 240 266 info@sanpras.in
11	V-Ensure Pharma Technologies Pvt Ltd	V-Ensure Pharma Technologies Pvt Ltd A-63, TTC, MIDC Industrial Area, Kopar Khairane, Navi Mumbai, Maharashtra 400705 Contact No:+91-70302 27304 Vensure.com
12	Vidisha Analytical, Dwarka, Nashik	Vidisha Analytical, Dwarka, Nashik Contact Person: Mr. Digambar More Contact No. 9763483903 www.vymaps.com/IN/Vidisha-Analytical-Research-And-Training-Center-107086707565016/



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MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN



PRAVARA RURAL EDUCATION SOCIETY'S
COLLEGE OF PHARMACY (FOR WOMEN)
NASHIK

&



BIOTOX
LABORATORIES

Biotox Laboratories Plot No. GEN-17/13, Behind SBI Bank, Near Sakal Circle, Satpur
MIDC, Nashik-422007, Maharashtra, India

Year :- 2023-24.

MEMORANDUM OF UNDERSTANDING

THIS AGREEMENT, entered into this date **18/07/2023.**, by and between **PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR NASHIK MAHARASHTRA** and its institutions, and **BIOTOX LABORATORIES , NASHIK.**

WITNESS THAT:

PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR NASHIK MAHARASHTRA and **BIOTOX LABORATORIES , NASHIK** , desire to promote the enrichment of their teaching and learning. Research and discovery and engagement missions.

WHEREAS, PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR MAHARASHTRA, and **BIOTOX LABORATORIES , NASHIK** , desire to strengthen and expand the mutual contacts between the two organizations.

WHEREAS, PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR MAHARASHTRA, and **BIOTOX LABORATORIES , NASHIK** , desire to provide for a vibrant collaboration between the two organizations on the terms and conditions hereinafter set forth.

NOW THEREFORE, it is mutually agreed as follows:

- I. Scope of Agreement** - The Agreement, shall include, but not be limited to, the following types of collaboration:
 - A. Seek mutual advice and support in planning and executing programs promoting excellence in respective areas of research and education.
 - B. Assist in Student, Teacher Training.
 - C. Placement assistance.
 - D. Collaborative Research and Discovery, Learning and Teaching, and Engagement.
 - E. Encourage the faculty members and scientist of either institute to attend lectures, seminars, workshops and conferences in the respective areas of interest.

- F. Share the library and scientific literature facilities mutually by giving access to library and other resources of either institute to the scientist/students/research personnel of other institute.
- G. Other mutually agreed educational programs.
- H. Biological Evaluation of Medical Devices
- I. Biocompatibility Studies
- J. Regulatory Toxicological Services and Risk Assessment
- K. Microbiology Studies
- L. Toxicology Studies
- M. Research and Development

II. Definitions – As used herein the terms “host organization” and “home organization” shall have the following meanings

- A. Host organization – the organization accepting the faculty member/scientist or student.
- B. Home organization – the organization providing the faculty member/scientist or student.

Period of Agreement – This MOU shall remain in force for lifetime from the date of the last signature. Prior to the expiration date, this agreement may be reviewed for possible renewal for a further three-year period. Either party may terminate this MOU by providing 60 days advance written notice to the other party.

III. In this case. Personnel already participating in the exchange shall serve out their terms under the conditions specified at the time of their appointment.

IV. Activities Under This Agreement – It is expected that activities taking place under this agreement will be initiated primarily in coordination with their respective administrative units concerned with such activities. All activities undertaken must conform to the policies and procedures in place at each institution.

V. Planning and Management of Activities – Each distinct collaboration program or activity will be described in separate Activity Agreement drawn up jointly by the collaborating units, and signed by the heads of these units. Such agreements will

specify the names of those individuals on each institution responsible for the implementation of the program.

VI. Funding of Activities - Activity Agreement's should make financial costs and obligations explicit. Collaborating units are encouraged to work together to identify and secure any outside funding which may be needed. Projects requiring funding must be approved by both institutions.

VII. Limitation and Warranties:

- Each party shall ensure that the other is not put to any liability for any act of the respective party under this MoU.
- Each party represents that they have full power and authority to enter into this MOU in general.

VIII Commercials:

The training, field visit shall be conducted at the host facility in a time bound manner as per availability and schedule at host facility.

IX General:

- Both the parties may receive information proprietary to other party (the "Confidential Information") in the course of performance of their obligations under this MOU. Confidential Information is not meant to include any information which (a) is publicly available (b) is rightfully received by the parties from third parties without accompanying secrecy obligations; (c) is already in either party's possession and was lawfully received from sources other than the parties or (d) is independently developed by the parties. The two bodies understand and acknowledge that the Confidential Information is valuable and confidential and agrees that it will at all times be kept in trust, to be disclosed only to such persons as have a "need to know" the same for the effective implementation of this MOU and that it will only be used by the parties for the benefit of others.

- Both the parties understand and agrees that all written or other tangible data and documentation developed or procured by the other party in performing its obligations under this MOU, whether in printed or electronic form, belongs to other party and that other party will have all rights, title and interest therein.
- Both parties shall not use the name and brand of the other party in any advertisement or make any public announcement without the prior written approval of the other.
- Any and all disputes or differences arising out of or in connection with this MoU or its performance shall, so far as it is possible, be settled by negotiations between the Parties amicably through consultation & understanding.

X. Indemnification :

Both the parties shall indemnify and hold each other harmless from and against any claim, loss, liability, or expense, including, but not limited to, damages, patent and trademark infringement, costs and attorneys' fees, arising out of or in connection with any acts or omissions of their agents or employees.

XI Nondiscrimination – PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR MAHARASHTRA, and BIOTOX LABORATORIES , NASHIK Agree that no person shall on the grounds of race, color, national origin, gender, sexual orientation, or creed be excluded from participation under the terms of this Agreement.

XII Modification – The terms of this Agreement may be changed or modified only by written amendment signed by authorized agents of the parties hereto.

IN WITNESS THEREOF, PRAVARA RURAL EDUCATION SOCIETYS COLLEGE OF PHARMACY, (FOR WOMEN) SINNAR MAHARASHTRA, and BIOTOX LABORATORIES , NASHIK Have executed this Agreement as of the date first above written.

FOR, PRAVARA RURAL EDUCATION SOCIETYS
COLLEGE OF PHARMACY, (FOR WOMEN)
SINNAR MAHARASHTRA,

FOR BIOTOX LABORATORIES , NASHIK
NASHIK,MAHARASHTRA (I)



AUTHORIZED SIGNATORY NAME:

Dr.Charushila J. Bhangale

DESIGNATION: Principal

Date: 18/07/2023



AUTHORIZED SIGNATORY NAME:

Dr.Amol More

DESIGNATION: Founder.

Date: 18/07/2023.



CU - S U C C E E D



SEE YOU GROW..SEE YOU CHANGE..SEE YOU SUCCEED

CU-SUCCEED
Empowering Women

MEMORANDUM OF UNDERSTANDING (MOU)

Between

**Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik
(Maharashtra), India**

and

CU-SUCCEED, Karadi, Pune

This Memorandum of Understanding (The "MoU") is being entered on Date-08/06/2023
between Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik
(Maharashtra), India & CU-Succeed

This is an agreement between Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi,
Nashik (Maharashtra), India, here in after referred to as "THE INSTITUTE"
(Which term shall so far as the context admits be deemed to mean and include its successors and assigns)
of the First Party.

AND

CU-SUCCEED having its corporate office at 101, Tower-10, Cygnus Building,
Kharadi, Pune, hereinafter referred to as CU-SUCCEED (Which term shall so far as the context admits be
deemed to mean and include its successors administrators, executors, and assignees) of the Second Party.

I. PURPOSE AND SCOPE

The purpose of this Memorandum of Understanding (MOU) is to clearly identify the roles
and responsibilities of each party as they relate to the collaboration and partnership in
providing training.

This MOU is intended to provide training program to Students of Pravara Rural Education
Society's, College of Pharmacy (For Women), Chincholi, Nashik (Maharashtra), India



info.cusucceed@gmail.com



8446686600

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II. BACKGROUND

CU-SUCCEED is the provider of different training programs based in the state of Maharashtra which will help to enhance the skills of students of different levels according to their requirements through experts with the collaboration with the institute. Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik (Maharashtra), India is the institution based in the state of Maharashtra provider of training programs to their students to build their students skills with CU-SUCCEED.

III. WORKSHOP/TRAINING PROGRAM

The Training Programs, as described in the grant proposal consist of the following :
A minimum 80 per Batch Students from Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik (Maharashtra), India will attend Employability Mentorship Program (E.M.P)

V. CU-SUCCEED'S RESPONSIBILITIES/DELIVERABLES UNDER THIS MEMORANDUM OF UNDERSTANDING

- A. CU-SUCCEED will conduct/provide specified offline/online training hours in the college on the program selected by the college.
- B. CU-SUCCEED will provide certificate to all the participants above 80% attendance
- C. CU-SUCCEED will provide Trainer (Industry Expert) to provide the Workshop/Training Program.
- D. CU-SUCCEED will provide coordination certificate to the coordinators.



info.cusucceed@gmail.com



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CU Succeed
Design Partner

IV. INSTITUTION'S RESPONSIBILITIES/ DELIVERABLES UNDER THIS MEMORANDUM OF UNDERSTANDING

Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik (Maharashtra), India shall undertake the following activities during the duration of the MOU:

- A. Enroll Students in the Workshop/Training Program.
- B. Mandate attendance for all the students enrolled in the above training program.
- C. The number of participants trained must equal the number promised in the grant (as per Section III).
- D. Monitor and ensure attendance of all training participants in all training sessions.
- E. Follow all relevant and applicable regulations as specified by the provider according to the agreement.
- F. Institution should provide full adequate infrastructure needed for the workshop/training either it is online or offline.
- G. Institution should look after the accommodation (Stay & Food) and pick up drop facility to the trainer/expert visited to provide training/workshop program in Offline mode.



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VI. Commercials

- For training - Rs.500/- INR Per Head

VII. Certification

- Students having above 80% attendance will be awarded by the certificate of completion by CU-SUCCEED post-completion of the Training program

VIII. Terms & Condition

Timeline: This Agreement shall commence from June 2023 till June 2024 unless this agreement is terminated pursuant to the provisions hereof.

Consideration: The deliverable agreed here under the agreement shall be considered the sufficient consideration from each party for this Agreement being 1-year-long association having no barter/kind consideration.

IX. Confidentiality

- Any information, whether written, oral or in any other form, furnished here under by one party to the other or its employees, representatives or agents shall be considered confidential by the receiving Party, which shall take all necessary precautions to keep the confidential information, secret and confidential.
- Either Party may disclose the general terms of this Agreement (but not the commercials or the specific deliverables therein)



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X. Applicable Law

This Agreement shall be governed by the laws of India. Any dispute arising out of this agreement shall be adjudicated through Arbitration by a sole Arbitrator appointed by Pravara Rural Education Society's, College of Pharmacy (For Women), Chincholi, Nashik (Maharashtra), India, or CU-SUCCEED's Authority. Such arbitration shall be governed by the Arbitration and Conciliation Act, 1996 and amendments thereof the place of arbitration shall be Maharashtra

- The arbitral award shall be final and binding. Parties hereby submit to the exclusive jurisdiction of the courts in Maharashtra.

First Party

Name of Authorized Signatory:

Sheikant Sundergisi

Sign. Of Authorized Signatory:

Sheikant

Designation:

Director

Stamp of the Party:

C.U.SUCCEED

Proprietor

Witness

Name of Witness: *Satish Narayandaw.*

Signature of Witness:

Satish

Second Party

Name of Authorized Signatory:

Dr. C.J. Bhargale

Sign. Of Authorized Signatory:

Bhargale

Designation:

Principal

Stamp of the Party:

PRINCIPAL

PRES's College of Pharmacy (For Women)
Chincholi, Sinnar, Nashik-422102.

Witness

Name of Witness: *Mr. Kunder D*

Signature of Witness:

Kunder



info.cusucceed@gmail.com



8446686600



Memorandum of Understanding

Scope of Collaboration

Memorandum of Understanding (MOU) Between Empower Research & Training Institute and Women's College Of Pharmacy Chincholi, Nashik.

This Memorandum of Understanding (MOU) is entered into on 19-12-2023, by and between **Empower Research & Training Institute**, hereinafter referred to as the "**Institute**," and, **Women's College Of Pharmacy Chincholi, Nashik** hereinafter referred to as the "**College**."

Objective

The primary objective of this MOU is to establish a collaborative partnership between the Empower Research & Training Institute and the College for offering at the College premises

Terms and Collaboration:

Course Structure

The Institute will provide details of the course curriculum, schedule, and any required materials to the College for review and approval. Assessment will be taken on monthly basis to track students progress, identify areas for improvement, and provide timely feedback. Certificates will be issued to students who meet the predetermined criteria for successful course completion.

Course Offerings

The Institute agrees to offer below courses to the college during the academic year 2023-2024.

1) Clinical Research

- Clinical trials and Ethical data consideration
- Clinical Data Management
- Pharma covigilance
- Regulatory affairs
- Medical Writing
- Pharmacology

2) Medical Coding

- Terminology in Medical coding
- Anatomy and physiology
- Medical Modifier
- Medical Billing
- CPC Examination Training

3) Clinical SAS

- Basic and Advance SAS
- Environment of SAS
- SQL
- ProcSQL
- Macro
- Clinical trials data structures
- ADAM, SDTM, TLF

Faculty Appointment:

The Institute shall appoint qualified and experienced faculty to conduct the courses for the College. The College may be involved in the selection process, subject to mutual agreement.

Upskilling is important for freshers, especially in today's rapidly changing job market and we help the Student to become Industry ready to land on a desired job.

We do not promote job guarantee but will give you 100% job assistance.

Student Admission:

Admission criteria and procedures will be determined collaboratively.

Quality Assurance:

Both parties will work together to ensure the quality and standards of the courses offered. Regular evaluations and feedback mechanisms will be implemented.

Duration of Collaboration:

This MOU shall be effective as of 20-12-2023 and shall remain in force for a period of 6-month subject to renewal by mutual agreement.

Proposed modes of collaboration :

Institute may collaborate with college for Certification courses through online medium.

Any other appropriate mode of interaction agreed upon between Institute and College.

Financial Agreement

Nil

Dispute Resolution:

In the event of any disputes arising from this collaboration, the parties agree to resolve them amicably through negotiations.

Confidentiality:

All proprietary information shared between the Institute and the College concerning the course and related matters shall be treated as confidential and shall not be disclosed to third parties without the written consent of the disclosing party.

Termination:

Either Party may terminate this MOU at any time by giving written notification to the other Party on its intention to terminate this MOU, 1 months prior to the date of the termination.

Governing Law:

This MOU shall be governed by and construed in accordance with the laws of Karnataka Jurisdiction

SIGNED IN DUPLICATE

This MoU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of

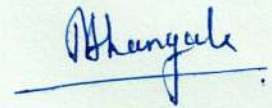
Empower Research and Training Institute

On behalf of

College Name



**Managing Director
MOGAL IMRAN BAIG**



PRINCIPAL
PRES's College of Pharmacy (For Women)
Chincholi, Sinnar, Nashik-422102.

GENOM

"dedicated to excellence"

Ref No.: GEN/HR/2010-11/ 822

Date: 07th Feb.2011

Title : Memorandum of Understanding between College Of Pharmacy, Chincholi and Genom Biotech Pvt,Ltd. D-121/123,M.I.D.C. Sinnar,Nashik 422 103

Date : 07.02.2011

MEMORANDUM OF UNDERSTANDING

Between

**Pravara Rural Education Society's College of Pharmacy
(For Women) Chincholi.Tal:Sinnar,Dist: Nashik (COPC)**

And

Genom Biotech Pvt,Ltd. D-121/123,M.I.D.C. Sinnar,Nashik

Preamble:

The Industry Institute Partnership Cell of College Of Pharmacy,Chincholi,Nashik established with a primary focus on the following domains namely Campus Placement for Students, Interaction between Institute Industry, Faculty Empowerment Programmes, Training Programmes for students on core competency development and action research programmes in pharmacy and technology.

Recognizing the necessity of mutual cooperation in the field of pharmacy education and training, PRES's College Of Pharmacy,[For Women] Chincholi, represented by its Principal,Dr.S.N.Hiremath and Genom Biotech Pvt,Ltd. D-121/123,M.I.D.C. Sinnar,Nashik, represented by Senior Manager-HR, Ms.Aarti Joshi have agreed to pursue joint efforts that will mutually benefit the two organizations in fulfilling their mandate.



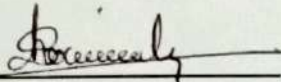
Genom Biotech Pvt. Ltd.
INDIA

A-504, Delphi, Orchard Avenue,
Hiranandani Business Park,
Mumbai - 400 075
Tel : +91-22 5508 9000
e-mail: genom@genomworld.com

Factory:
Genom Biotech Pvt. Ltd.
D-121/123, M.I.D.C.
Malegaon, Sinnar,
Nashik 422 103.
Tel: 91-2551-230461/2

The areas of possible cooperation for the year 2010-11 are as follows:

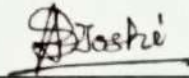
1. Introduction of Academic Industrial Cooperation in the technical education and one month mid term/summer vacation training program which will contribute to the expansion of cooperation between the two institutes, addition to the development of knowledge of pharmaceutical technology and improving technical competencies of students
2. To have an association with the institute to deliver lectures by managerial staff for the up gradation of recent and modern techniques in pharmaceutical systems.
3. To have an assistance in guiding projects of UG students as per the schedule given by university.
4. Development of curricula in the colleges in order to provide the skilled workforce needed for the transitional process of economic industrialization as well as specifying measures for the phases of implementing the curricula.
5. To have in/off campus interviews for the placement of students.



Dr.S.N.Hiremath

Principal

College Of Pharmacy,Chincholi,



Ms.Aarti S.Joshi

Senior Manager- HR

Genom Biotech Pvt,Ltd

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on the 24th day of August, Two Thousand Twenty Two (24/08/2022).

BETWEEN

PRES's College of Pharmacy (for Women) **First Party**, and represented herein by its Director/Principal/HOD/Dean Dr. Charusheda Phungole, (hereinafter referred to as "**First Party**", institute which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

AND

GPAT DISCUSSION CENTER PVT LTD BILASPUR (CG), **Second Party**, and represented herein by its Director, **GPAT discussion center**, (hereinafter referred to as "**Second Party**", institute which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named:
 - o PRES's College of Pharmacy (for Women) Chincholi, Nashik (Maharashtra).
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Coaching of competitive examinations and Education.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;
- E) **GPAT DISCUSSION CENTER PVT. LTD., Director**, the Second Party is engaged in imparting education in subjects involved in the syllabus of competitive examinations.
- F) Give related information, its branches, and dimensional information about the institute concerned with whom the MoU is sworn.

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

CLAUSE 1 CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in preparation for pharmaceutical competitive examination, keeping in mind the needs of, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

Responsibilities of party 1 and party2 under this MoU

- 2.1 This MoU is meant to develop the level of education of enrolled students of party 1 for one year from the date of signing of this MoU.
- 2.2 The second party will provide free test series from the first Sunday after first Sunday from the date of signing of this MoU.
- 2.3 The second party will provide doubt session classes for the students from the date of signing of this MoU who has downloaded the app GDC classes in their mobile phones.
- 2.4 The second party will be free to take admissions of students of first party who would be interested for take any paid courses of party 2.
- 2.5 The first party will authorize a responsible person to check the service quality provided by the party2.
- 2.6 Both the party will work with mutual understanding for the improvement of results of the students in pharma competitive exams.
- 2.7 This MoU is not for financial benefit of party 2 but still there are too many courses in app at merely Re1 which can be subscribed by the students of party 1 which is not mandatory.
- 2.8 Party 2 will conduct seminars/webinars frequently if considered by party1 which depends on availability of time & infrastructure.
- 2.9 All the student will get Free Target GPAT Online Test series of worth Rs 500/- by Party2.
- 2.10 Party 2 will freely enroll all the students from 1st Semester to 8th semester in B- Pharm semester MCQ course for 4 years.

CLAUSE 4 VALIDITY

- 3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of GPAT DISCUSSION CENTER PVT LTD BILASPUR the **Second Party**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 3.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

- 4.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party

Second Party



Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party.

AGREED BETWEEN:

Director/Principal/HOD/Dean _____

P. Chhangale

&

Director, GPAT discussion center Pvt. Ltd.



Witness1:

Witness2:



PRAVARA RURAL EDUCATION SOCIETY'S
COLLEGE OF PHARMACY (FOR WOMEN)
NASHIK

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Loknete Dr. Balasaheb Vikhe Patil

(Padma Bhushan Awardee)

Pravara Rural Education Society's, College Of Pharmacy (For Women),
Nashik.

&

KITE Ai Technologies Pvt. Ltd.
Pune.

April 11/2021
2020-21

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this

BETWEEN

Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee) Pravara Rural Education Society's, College Of Pharmacy (For Women), Nashik.

represented herein by its Dr. Charushila Jayant Bhangale, Principal (here in after referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

KITE Ai Technologies Pvt. Ltd. (here in after referred to as "Second Party", KITE Ai Technologies Pvt. Ltd. (www.kite-ai.com) company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

1. Industry Update

- Career webinar / Workshops/ Events / Seminar on trending Industry topics
- Engaging with Industry Expert virtually or as decided and agreed upon

2. Individual Training -Candidates can join Industry oriented programs which are exclusively offered by KITE-Ai Learning

(A Training initiative of KITE-Ai Technologies Pvt. Ltd.)

- Expert in Digital Marketing and Analytics
- Expert in Data Analytics -Clinical Trial Data Analytics
- Expert in Clinical Research Operations/ Clinical data management/ Pharmacovigilance/Medical Coding/Writing
- Expert in Business Analytics and CRM
- Data Visualization
- Big data and Hadoop
- Contract management and IPR


4/03/2021

2.1 Industry Enablement

- Professional Skills and Interview Techniques
- FTP-- Faculty Training Programs (FTI - train the trainer)
- Email Writing and Business Communication Training
- Domain and Technical skills Training
- Placement Support and Recruitment
- Conducting recruitment drives for internal requirement or client requirement
- Exclusive Placement Support for the candidates opting for KITE-Ai Learning Programs
- Free profile creation for the students on our KITE.LIN portal

4. Connect and Networking

- Conducting Industrial visits in association with our partners
- Planned Educational event conferences

5. Strategic Initiatives

- Jointly developing certificate and diploma programs and curriculum review for enhanced learning experience of the students

First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party also utilizes the infrastructure of the first party for conducting above mention activities.

The terms of such cooperation shall be discussed and agreed upon in writing in an annex to the present agreement by both parties prior to the initiation of any particular program or activity. This agreement shall be effective upon approval by both parties and remain effective for five academic years. (2020-21 to 2024-25) It can be extended by mutual agreement expressed by a written memorandum of understanding. Either party may terminate this agreement by written notice to the other. Such termination will come into effect six months from the date of the written notice.

LOKNETE DR. BAJASAHEB VIKHEPATIL (PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S COLLEGE OF PHARMACY (FOR WOMEN), NASHIK. AT-CHINCHOLI, TAL-SINNAR NASHIK.	KITE-Ai Technologies Pvt. Ltd. AWFIS 3rd Floor, ABIL Square, Amar Atrium, PAN Card Club Road, Baner, Pune, Maharashtra - 411045
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Signature
9/08/2021

<p><i>(Dr. C.J. Bhangale)</i></p> <p>Dr.C.J.Bhangale Principal Contact Details-9011140176</p>	<p>Mr. Peyush Rajput CEO & MD Contact Details - +91-7385 518324</p> <p>E-Signature: <i>Peyush Rajput</i> 4/02/2021</p>
<p><i>(Dr. Ramdas Dolas)</i></p> <p>Dr. Ramdas Dolas IQAC Coordinator Contact Details-9657720340</p>	
E-mails- pravaracope@yahoo.co.in	E-mails - info@kite-ai.com
Web - www.wcopepravara.in	Web - www.kite-ai.com

MEMORANDUM OF UNDERSTANDING
(MOU)

BETWEEN

(Faint text, likely names of the parties)

(Faint text, likely addresses)

(Faint text, likely dates and locations)

(Faint text, likely a title or reference)

2020-21

AGREEMENT

This Agreement (hereinafter referred to as "**Agreement**") is executed on February 01, 2024 at Mumbai between:

Manpriya Foundation, having its registered office at B1303, Shivam Vastu, Road no. 13, Chembur West, Mumbai 400089 which expression shall include its subsidiaries associate, affiliates, and legal assigns and successors (hereinafter referred to as "**First Party**"); and **Pravara Rural Education Societys, College of Pharmacy, (for Women)** at Post - Chincholi, Tal-Sinner, Dist -Nashik, Maharashtra, which expression shall include its associates, affiliates, and legal assigns and successors (hereinafter referred to as "**Second Party**")

First party and Second Party are also referred to individually as 'Party' and collectively as 'Parties'

WHEREAS

- First Party is a subsidiary company of "Manpriya Foundation has been engaged, *inter alia*, in enhancing the quality of human capital in schools, colleges, vocational institution, governments, and the corporate sector by providing innovative and cutting edge solutions in the domain of education, capacity building and social entrepreneurship space.
- The First Party has undertaken a Programme to provide vocational/employable skills training to youth from various sections of society, for obtaining jobs in the industrial / service sector. This Programme is conducted through individual projects formulated by the First Party, and some of these projects could be sanctioned / financially supported by Government of India or State Governments.
- The First Party with the objective of establishing a network of institutions in the arena of skills development to attain the sustainable development, is conducting / proposes to conduct customized leveraging existing infrastructure/ facilities and by partnering with agencies that have suitable infrastructure for conducting such Training Programmes.
- The broad objective of this agreement is to implement Skill Development Programmes and to form an effective management and delivery of the competency-based training aimed at overall development of the trainees. Therefore, it is mandatory for both the parties to follow the guidelines of the project in order to meet the objectives of the project.
- The Second Party is interested to partner with the First Party in the initiative of placement linked skill development programme by way of providing Infrastructure, manpower and other Facilitating support, and has confirmed its acceptance to enter into this Agreement with the First Party.
- The Parties desire to structure a relationship and enter into this Agreement so as to offer customized, client-specific training programs relating to the Industry, for which both the Parties shall deploy their core competencies.



DEFINITIONS AND INTERPRETATION

In this, Agreement, in addition to the words and expression, above, unless there is something in the subject or context inconsistent therewith, the following expressions shall have the following meanings.

- **Agreement** means this Agreement together with any amendments or modification hereto attached provided that such amendments and modification have been executed in accordance with the procedures specified in this Agreement/
- **Applicable Law** means the various statutes, delegated legislation (rules, regulations, orders, bye-laws), notifications, binding orders of Governmental Authorities, as and to the extent the same is applicable to the Parties and the substratum of this agreement.
- **Training Programme** means a programme, organized by the **Manpriya Foundation** to train Trainees in accordance with the terms of this Agreement.
- **Successful Completion** by a Trainee means the Trainee has attended the Training programme as per the norms set by First Party, passed all the qualifying tests and has been assessed successful by the assessing agency / person appointed by the First Party for this purpose.
- **Sector Skills Council (SSC):** The Sector Skill Council was recently set up to bring leading organization of the industry together to create strategies and operational plans that will create standardized skill requirements for the various job roles in the industry. The Skill council will also accredit well equipped service providers who will partners as a nation-building activity with far reaching implication for social development and empowerment through financial inclusion.
- **Performance Criteria (PC)** means those evaluative statements, which specify what is to be assessed and the required level of performance. They detail the activities, skills knowledge and understanding that provide evidence of competent performance of each element.
- **National Occupational Standards (NOS)** specify the standard of performance an individual must achieve when carrying out function in a workplace, together with the knowledge and understanding they need to meet that standard consistently. Essentially NOS are benchmarks of good practice. The NOS are laid down by employers (through their SSCs). A set of NOS, aligned to a job role, called Qualification pack, would be available for every job role in each industry sector.



2. RESPONSIBILITIES OF THE PARTIES:

Manpriya Foundation (Training Partner)	Infra Partner (Training Centre)
Approve the centre after Due diligence of facilities	Plan for which trades are to be done and to ensure readiness of facilities and trainers as per norms
Ensuring the trades chosen are appropriate as per existing facilities available	Achieve the agreed targets in stipulated timeline
Validation of Trainers on the trade, TOT & certification by SSC	Mobilization of trainees and SSC Certified Trainers as per project compliance
Providing Content	Ensuring availability of Centre Infrastructure & Equipment as per Project/SSC criteria
Monitoring the program through Master trainer and its continual improvement.	Paying Centre Accreditation & Affiliation charges to NSDC/SSC (Will be paid by Manpriya Foundation)
Conducting Training and Infrastructure Quality Audit	Appointment of trainers as per the eligibility criteria defined by SSC/project compliance
Coordination with the Government / Funding agency, wherever applicable and required, and the industry.	Conducting Mobilization Drive (Kaushal Mela) with participation of MP & local administration
Complying with the terms and conditions stipulated by Government or any other agency in this regard.	Ensuring compliance to Monitoring mechanism set up by NSDC/SSC



Validating placement linkages of IP/TC	Overall supervision of the program & ensure that training happens as per the prescribed duration
Providing branding and promotion content developed for multi-media campaign including flyers, brochures etc.	Facilitating Assessment & Certification of trainees
On request of Franchise Partner TP will bear cost of Biometric device and Centre Accreditation & Affiliation charges and it will be deducted from Franchise Partner's payout in consecutive tranches	Providing manpower to support Master Trainers/ Subject Matter Expert/ Domain expert appointed by Manpriya Foundation to efficiently run the training centre
Induction/orientation training of Franchise partner staff (non-trainers).	Ensuring compliance to all project guidelines shared by Manpriya Foundation /NSDC, as and when they are updated as well
Review the progress as per Business Plan monthly	Ensuring the centre has adequate branding as per guidelines of Scheme
Providing guidance and support on timely basis whenever required	Ensuring placement of candidates as per project compliance
Monitoring on timely basis to avoid any confusion or error in training programme	Operate and manage the centre together with all the operational expenditure
Dedicated staff for all queries during training programme	Infra Partner shall strictly adhere to the quality specifications laid down by Manpriya Foundation from time to time while imparting the training for various courses



6. AUDIT AND COMPLIANCE

The second party shall cooperate with first party and provide all assistance to enable auditors of First party agency appointed by first part and according agencies of project or financing agencies of the concerned projects if applicable, to view the facility or conduct inspection of training programme, records or the premises provided by the second party for the training

7. INTELLECTUAL PROPOERTY RIGHTS AND NON-DISCLOSURE

The second party' trademark/s and copyrights relating to the methods, the programs, courseware, operation manuals, information, material and services made available by First Party hereunder and the goodwill delivered there from and further agrees not to divulge or disclose information, procedures, technical and other information and programs made available by First Party confidential or proprietary to First Party.

8. INDEMNIFICATION:

First Party shall be under no legal obligation to indemnify or hold harmless, any third party for any damage such as third party might suffer, which may be related to the services provided by the Second Party under this Agreement. Second Party hereby declares and irrevocably undertakes that it shall defend, hold harmless and indemnify the First Party / IETS against all loss, damage or claims or other lawsuits or proceedings that may arise out of breach of any of its obligation under this Agreement, including those arising full responsibility for the payment of indemnification, penalties, attorneys' fees, legal costs and other charges.

9. MODIFICATION

9.1 This Agreement may be modified, through a written documents signed by duly authorized representatives of both Parties.

9.2 In the event the Second Party is required to withdraw its support for any reason beyond its control, the Second Party shall provide at least 90 days prior written notice in that regard to First Party and obtain its prior approval before withdrawal of support. The Second party shall continue its activities during the above notice period in such a manner, which shall not prejudicially affect the interest of First Party.

10. DISPUTE RESOLUTION:

10.1 This Agreement shall be governed according to the Indian laws and each Party shall submit to the jurisdiction of the courts at Jammu.

10.2 Any and all differences and disputes whatsoever arising between the Parties concerning the interpretation or implementation of this Agreement or in relation to the subject matter contained in this Agreement shall, in the first instance, be resolved mutually between the Parties and the event of non- resolution, the matter shall be referred to arbitration.

10.3 Arbitration proceedings shall be held in Maharashtra in accordance with the Arbitration and Conciliation Act, 1996 and procedures established for the purpose of regulating and determining matters relating to or arising from arbitration. Both the Parties shall mutually appoint one arbitrator failing which the dispute shall be decided by an arbitration panel consisting of 3 arbitrators. Each Party shall appoint one arbitrator and

both the arbitrator and the arbitrators so appointed shall a third arbitrator, who shall preside over the arbitration proceedings. Any decision, determination or award of the Arbitrator shall be binding on the Parties. Unless otherwise decided by the arbitrators /s, the cost of arbitration shall be shared by the Parties in equal proportion.

11. COMPLIANCE WITH LAWS:

The Second Party/IP/TC at all times and its own expense will:

Strictly comply with all Applicable Law, rules, regulations and Governmental orders, now or hereafter in effect, relating to its performance of Agreement,

- Pay all fees and other charges required by Applicable Laws and maintain in full force and effect all licenses, permits, authorization, registration and qualifications, from all Government departments and agencies to the extent necessary to perform its obligation hereunder.

12. FORCE MAJEURE

The Part hereto agree that a Force Majeure event shall mean an unforeseeable act or event that prevents the affected Party from performing its obligation under this agreement or complying with any conditions required by the other Party under this Agreement and such act or event is beyond the reasonable control and not because of any fault of the affected Party and such Party has been unable to avoid such an act or event by the exercise of prudent foresight and due diligence. Neither Party hereto shall be considered breach hereof or in default if it fails to perform or observe any or all of the terms of this Agreement resulting directly or indirectly, from Force Majeure Events such as acts of God, Civil or Military authority, acts of Government, acts of public Enemy, war, riots, explosion, earthquake, flood, storm, lightning strike etc. In such a case the affected Party shall notify the other Party of the occurrence of such Force Majeure event and should as a consequence, the performance under this Agreement be prevented for a period longer than 30 days, then the other Party shall have the right to terminate this Agreement.

13. SEVERABILITY:

If any of the provisions of this Agreement are declared to be invalid, such provisions shall be served from this Agreement and the other provisions hereof shall remain in full force and effect.

14. TERM AND TERMINATION:

14.1 The Agreement shall be valid unless terminated as provided under this clause.

14.2 Termination by First Party: First Party may terminate this Agreement upon 30 calendar days notice in writing or after occurrence of any of the events specified in paragraphs below:

- If The Second Party does not remedy a failure in the performance of its obligations under the Agreement, with 30 days of being notified of such a failure, or with in such further period as First Party may have subsequently approved in writing;



- If the Second party becomes insolvent or bankrupt; or
 - If, as the result of Force Majeure event, the Second Party is unable to perform a material portion as material portion of its obligations for a period of not less than 30 days.
- 14.3 Termination by Second party: Second Party may terminate this Agreement upon 30 calendar days notice in writing after occurrence of any of the events specified in paragraphs below:
- (a) If First Party fails to pay any monies due to the Second party pursuant to this Agreement with 30 days after receiving written notice from the Second Party that such payment is overdue; or
 - (b) If, as the result of Force Majeure, First Party is unable to perform a material of its obligations for a period of not less than sixty days.
- 14.4 The termination of this Agreement shall not prejudice or affect in anyway, the rights and benefits accrued or liabilities and duties imposed on the parties of this Agreement.
- 14.5 Upon termination, the Second Party shall
- (a) Hand over assets provided by First party under this Agreement to First Party.
 - (b) Handover all registers, documents and supporting papers related to the conduct of the Training Programmes to First party.

15. ASSIGNMENT & SUB-CONTRACTING:

The Second Party shall not assign, sub-contract or delegate its rights or obligations under this Agreement without the prior permission of the First party.

16. EFFECTIVE:

This Agreement is effective from, 2024

17. NOTICE

All notices required or permitted by, or made pursuant to, this Agreement shall be in writing and shall be sent by facsimile or by registered, first class airmail, return receipt requested and postage prepaid, to the following addresses:



If to First Party:

Manpriya Foundation

B1303, Shivam Vastu,
Road no. 13, Chembur West,
Mumbai 400089



If to Second Party:

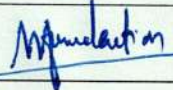
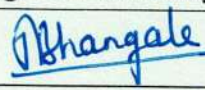
Pravara rural education societys, College of Pharmacy, (for women)

Post - Chincholi, Tal-Sinner,
Dist -Nashik, 422102 Maharashtra

All such notices shall be deemed to have been received as follows:

- If by facsimile, twenty- four (24) hours after transmission, and
- If by registered, first class airmail, upon receipt of acknowledgement of delivery.

IN WITNESS WHEREOF THE PARTIES HERETO HANE SET THEIR PESPECTIVE HANDS ON THE DAY MONTH &YEAR FIRST ABOVE WRITTEN

For Manpriya Foundation	For Pravara rural education society's College of Pharmacy, (for women)
	
Name: <u>Dr. Mangesh.</u>	Name:- <u>Dr. C. J. Bhargale.</u>

Witness:

1: Mr. B. T. Jagtap

2: Mr. Kunde V. D

PRINCIPAL
PRES's College of Pharmacy (For Women)
Chincholi, Sinnar, Nashik-422102.





Annexure- I

Financial Consideration under Project

- The IP is eligible to get INR 5000 as training cost. The payout will be as per number of certified candidates per batch and payable only once MANPRIYA FOUNDATION receive amounts.

Manpriya Foundation will bear the following cost:

- Cost of ToT (paid to SSC, does not include travel cost from city of origin to Tot venue)
- Will do induction/orientation training for IP staff (non trainers).

Cost to be borne by IP - Pravara rural education societys, College of Pharmacy, (for women):

- Installing all equipment as per SSC QPs
- Installation of Aadhar Enabled Biometric Attendance device at all centers (as per actual).
- Cost of center branding as per scheme guidelines and also gives Collaterals
- Other requirements as per guidelines like CCTV, fire extinguisher etc.
- Centre Accreditation & Affiliation charges.



Table 1

- Eligible Payout Structure – Tranches of IP share to be paid after completion of project

Milestone	Payout from Manpriya Foundation to IP	Remarks
Successful batch upload (T1)	30%	Subject to batch approval on Skill India Portal
Certification of trainees (T2)	30%	Shared in proportion to the no. of candidates passed.
Placement of Trainee (Proof of employment to be submitted (T3)	20% (will be paid full share on 70% & above placement, will be paid on pro-rated basis for below 70% placement)	T2 and T3 will be given together if IP places trainees by Certification
Monthly retention and salary slip (T4)	20% (will be paid full share on 70% plus retention and pro-rated on 70%, no payment below 70%)	

Note - All payments will be basis no. of candidates certified, over and above the mentioned

Requirements, except first tranche of 30%. Failed trainees amount will be deducted in later tranches. The IP share will be released in above ratio as and when **Manpriya Foundation** receives the money from allocation agencies

Placement Requirements

- IP should aim that 80% of successfully certified candidates are placed within 3 months of completion of training in wage employment.
- Share placement data of candidates
- Candidates should continue to be in jobs for a period of 4 month
- In case of wage employment, IP will provide one of the following as proof of employment
 - Appointment letter issued by the employer
 - (ii) letter issued by the employer with details like the placed candidates name, date of joining and cost of company (CIP)
 - (iii) Salary certificate
 - (iv) Salary slips issue by the employer



(v)) Salary payment proof (Bank account statement, passbook entries etc)

In case of self-employment, regions are required to provide a self-declaration letter issued by the candidate. In addition, the centre must provide a proof that candidates have been employed gainfully in livelihood enhancement occupations, which may include the following:-

- Trade license.
- Proof of enterprise set up.
- Proof authenticating that the candidate is part of the producer group.
- Proof of additional earnings (bank statement).
- Any other suitable and verifiable document, as prescribed by the respective Ministry/Department.
- Proof of the Mudra Loan availed.



Centre Infrastructure & Equipments

- Infra Partner to Install Aadhar Enabled Biometric System (AEBAS) for registering attendance of trainees & ensure that day wise biometric attendance is shared with Manpriya Foundation
- Centre Accreditation & Affiliation charges will be borne by IP/TC.

3. FINANCIAL CONSIDERATION

The First Party shall pay to second party as per agreed commercial below (Refer Annexure)

4. NOT TO UNDERTAKE COMPETING BUSINESS:

4.1 During the Effectiveness of this agreement the second party shall not directly or indirectly, carry on or be engaged or interested in any business of the First party in relation to the Skill development and /or vocational trainings and shall not solicit, the customers who is or has been at any time a customer of first party for the purpose of offering to the persons the services similar to or competing with the business of the first party in PAN India basic.

5. Reports and Documentation

5.1 The Second party Shall Maintain complete record of trainee's soft copy as well hard copy

- a) Branding of center as per the scheme guidelines
- b) Documentation of enrolment, trainees' profiles, trainees' feedbacks
- c) Aadhar Number and Bank Account of each Trainee.
- d) Data on achievement of deliverables of the training programme
- e) Register should be maintained for the assets provided by Manpriya Foundation if any
- f) Documents with regard to correspondence with office /Local authority /Trainees should be well maintained
- g) The second party shall provide other details with regard to monitoring, mobilization of trainees, finance etc.
- h) Self audit reports
- i) Photographs of Kaushal Mela, Placement Drive, Mobilization etc.
- j) Internal assessment Details



**MEMORANDUM
OF
UNDERSTANDING
(MOU)**

BETWEEN



LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY'S
COLLEGE OF PHARMACY (FOR WOMEN)
NASHIK.

&



Second Floor, Circle Plaza, Sarda Cir, Shingada Talav, Renuka Nagar,
Nashik, Maharashtra 422001.



MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 15th of, October , Two Thousand Twenty. (15-10-2020).

BETWEEN

LOKNENTE DR.BAJASAHEB VIKHEPATIL(PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK. represented herein by its **DR.MRS.C.J.BHANGALE** (here in after referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

RAP Analytical Research and Training Center. Second Floor, Circle Plaza, Sarda Cir, Shingada Talav, Renuka Nagar, Nashik, Maharashtra 422001, and represented herein by its Head, **Mr.Rohan Pawar**, (Director) (here in after referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as '**Parties**' and individually as '**Party**')

WHEREAS:

A) First Party is a Higher Educational Institution named:

LOKNENTE DR.BALASAHEB VIKHE PATIL(PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK.

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for



advancing their mutual interest;

- E) **RAP Analytical**, the Second Party is engaged in Business, Skill Development, Education and R&D Services in the fields of **Pharmaceutical Validation** and related fields.
- F) **RAP Analytical**, the Second Party is promoted by **Mr. Rohan Pawar**.
- G) Give related information, its branches, and dimensional information about the industry concerned with which the MoU is sworn.

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

CLAUSE 1: CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter

hereof.



CLAUSE 2: SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions 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 knowledge.
- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Pharmaceuticals **related activities and services.**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house



requirements.

- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.10 There is no financial commitment on the part of the, Loknete Dr.Balasaheb Vikhe Patil (Padma Bhushan Awardee),Pravara Rural Education Society's,College of Pharmacy (For Women),Nashik and the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3: INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4: VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **RAP Analytical**, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner** the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU.
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations



CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party. Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party.



AGREED:

LOKNENTE DR. BAJASAHEB VIKHEPATIL (PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK.

A. Bhargale

PRINCIPAL

PRES's College of Pharmacy (For Women),
Chincholi, Sinnar, Nashik-422102.



Authorized Signatory

RAP Analytical, Nashik

Robin Patil

**RAP Analytical Research
& Training Center**

Second Floor, Circle Plaza,
Sarda Circle, Nashik



Authorized Signatory

Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee), Pravara Rural Education Society's, College of Pharmacy (For Women), Nashik .	RAP Analytical Research and Training Center.
A/p-Chincholi, Tal Sinnar, Nashik.	Second Floor, Circle Plaza, Sarda Cir, Shingada Talav, Renuka Nagar, Nashik, Maharashtra 422001,
Contact Details-9011140176	Contact Details-8888829788
e-mails- pravaracopc@yahoo.co.in	e-mails- rapanalytical@gmail.com
Web - www.wcopecpravara.in	Web-www.rapanalytical.com

Chude
Mr. Kude v D

Witness1:

Dr. K. B.
Dr. K. B.

Witness2:

Dr. Ravdas T. Dadas
Dr. Ravdas T. Dadas

Witness3:

Dr. Sachin Somwar P.
Dr. Sachin Somwar P.

Witness4:

**MEMORANDUM
OF
UNDERSTANDING
(MOU)**

BETWEEN



**LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY'S
COLLEGE OF PHARMACY (FOR WOMEN)
NASHIK**

&



Sanpras Healthcare Pvt. Ltd.

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 5th of, July, Two Thousand Nineteen. (05-08-2020),

BETWEEN

Loknete Dr.Balasaheb Vikhe Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..

represented herein by its Dr.Charushila Jayant Bhangale (Principal) here in after referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Sanpras Healthcare Pvt. Ltd. Factory 81, S.T.I.C.E., Musalgaon, Sinnar, Tal. Sinnar, Dist., NASHIK, Maharashtra, India, and represented herein by its Head, **Mr. Santosh Mutkule** , (Director) (here in after referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named:
Loknete Dr.Balasaheb Vikhe Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;
- E) Sanpras Healthcare Pvt. Ltd. Factory 81, S.T.I.C.E., Musalgaon, Sinnar, Tal.

Sinnar, Dist., NASHIK, Maharashtra, India, the Second Party is engaged in Production and R&D Services in the fields of Pharmaceutical .

- F) Sanpras Healthcare Pvt. Ltd, the Second Party is promoted by **Mr. Santosh Mutkule** .
- G) Give related information, its branches, and dimensional information about the industry concerned with which the MoU is sworn.

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

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- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one a not.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2: SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions 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 knowledge.

- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Pharmaceuticals **related activities and services.**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.10 There is no financial commitment on the part of the college and the First Party to

take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3: INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party

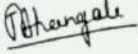


CLAUSE 4: VALIDITY

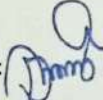
- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period Sanpras Healthcare Pvt. Ltd, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

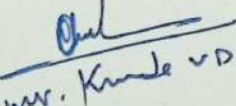
CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party. Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996.


Authorized Signatory

<p> Principal College of Pharmacy, Chincholi Tal. Sinnar, Dist. Nashik 422102.</p> <p> Dr.C.J.Bhangale (Principal)</p>	<p>SANPRAS HEALTHCARE PVT.LTD.</p> <p> DIRECTOR Mr.Santosh Mutkule (Director)</p>
<p>Loknete Dr.Balasaheb Vikhe Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..</p>	<p>Sanpras Healthcare Pvt. Ltd. Factory 81, S.T.I.C.E., Musalgaon, Sinnar, Tal. Sinnar, Dist., NASHIK, Maharashtra, India,</p>
<p>At post –Chincholi,Tai-Sinner,Dist- Nashik .</p>	<p>FactoryNo-81,STICE,Musalgaon,Sinner,Dist- Nashik.Maharashtra</p>
<p>Contact Details-9011140176</p>	<p>Contact Details – 9420483533</p>
<p>E-mails- pravaraopc@yahoo.co.in</p>	
<p>Web – www.wcpcpravara.in</p>	

Witness1: 
(Dr. S.B. Somwankar)

Witness3: 
Mr. Khande V.D

Witness2: 
Gaurav L.C.

Witness4: 
Shinde S.B

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 21st of, March , Two Thousand Twenty Three . (21-03-2023).

BETWEEN

Pravara Rural Education Society's , College of Pharmacy ,(For Women),Chincholi Nashik, represented herein by its Dr.Charushila Jayant Bhangale (Principal) here in after referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Sangeeta Pharma ,Malegaon Industrial Area, Malegaon, Maharashtra 422113 and represented herein by its Head, _____, (Director) (here in after referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).
(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named: Pravara Rural Education Society's , College of Pharmacy ,(For Women),Chincholi Nashik.
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;
- E) Sangeeta Pharma ,Malegaon Industrial Area, Malegaon, Maharashtra 422113 the Second Party is engaged in Production and R&D Services in the fields of Pharmaceutical .
- F) Give related information, its branches, and dimensional information about the industry

concerned with which the MoU is sworn.

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

CLAUSE 1: CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2: SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions 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 knowledge.
- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit

the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Pharmaceuticals **related activities and services.**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.10 There is no financial commitment on the part of the college and the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3: INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy

rights and designs) of the other Party

CLAUSE 4: VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period Sangeeta Pharma, Malegaon Industrial Area, Malegaon, Maharashtra 422113 the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party. Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996.

Authorized Signatory

<p> PRINCIPAL PRES's College of Pharmacy (For Women) Chincholi, Sinner, Nashik-422102.</p> <p>Dr.C.J.Bhargale (Principal)</p>	<p> (Director)</p> <p></p>
<p>Pravara Rural Education Society's, College of Pharmacy , (For Women),Chincholi Nashik</p>	<p>Sangeeta Pharma .Malegaon Industrial Area. Malegaon. Maharashtra 422113</p>
<p>At post –Chincholi, Tai-Sinner, Dist-Nashik .</p>	<p>A-35, M.I.D.C. Malegaon, Sinner, Dist. Nashik, 422103. Maharashtra, India.</p>
<p>Contact Details-9011140176</p>	<p>Contact Details :- +91 +91 9167041905 / +91 9920063173 (India)</p>
<p>E-mails- pravaracopc@yahoo.co.in</p>	<p>Email:-response@sangeetapharma.co.in</p>
<p>Web – www.wcopcpravara.in</p>	<p>www.sangeetapharma.co.in</p>




Dr. Sachin B. Somwanshi
Witness1:



Witness2:

Witness3:


Dr. Kishan B. Kotade

Witness4:

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 20th of, July, Two Thousand Twenty Two. (20-07-2022),

BETWEEN

Loknete Dr.Balasaheb Vikhe Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..

represented herein by its Dr.Charushila Jayant Bhangale (Principal) here in after referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

V-Ensure Pharma Technologies Pvt. Ltd A-63, TTC Industrial Area, MIDC Khairne. New Mumbai and represented herein by its Head, ~~Dr. Pradip S. Chavan~~, (Director) (here in after referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second. Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named:
Loknete Dr.Balasaheb Vikhe Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;

- E) V-Ensure Pharma Technologies Pvt. Ltd A-63, TTC Industrial Area, MIDC Khairne, New Mumbai , India, the Second Party is engaged in Production and R&D Services in the fields of Pharmaceutical .
- F) V-Ensure Pharma Technologies Pvt. Ltd A-63, TTC Industrial Area, MIDC Khairne, New Mumbai .
- G) Give related information, its branches, and dimensional information about the industry concerned with which the MoU is sworn.

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

CLAUSE 1: CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one a not.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2: SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions 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 knowledge.

- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
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- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Pharmaceuticals **related activities and services.**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
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- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein

- 2.10 There is no financial commitment on the part of the **college** and the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3: INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party


CLAUSE 4: VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period V-Ensure Pharma Technologies Pvt. Ltd A-63, TTC Industrial Area, MIDC Khairne, New Mumba the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party. Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996.

Authorized Signatory

<p style="text-align: center;"><i>Bhangale</i></p> <p style="text-align: center;">Dr. C.J. Bhangale</p> <p style="text-align: center;">Principal</p>	<p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">for (Director)</p> 
<p><small>PRES'S College of Pharmacy (For Women) Chincholi, Tal. Sinner, Dist. Nashik-422102.</small></p> <p>Loknete, Dr. Balasaheb Vikas Patil (PadmaBhushan Awardee) Pravara Rural Education Societys , College of Pharmacy Chincholi ,(For Women),Nashik..</p>	<p>V-Ensure Pharma Technologies Pvt. Ltd A-63, TTC Industrial Area, MIDC Khairne, New Mumba,</p>
<p>At post –Chincholi,Tai-Sinner,Dist- Nashik .</p>	<p>A-63, TTC Industrial Area, MIDC Khairne, New Mumba</p>
<p>Contact Details-9011140176</p>	<p>Contact Details :-</p>
<p>E-mails- pravaraopc@yahoo.co.in</p>	<p>a.salunkhe@v-ensure.com</p>
<p>Web – www.wcopcpravara.in</p>	<p>Web:-www.v-ensure.com</p>



Witness1:

[Signature]
Mr. Kande Vikas. Damu.

Witness3:

Witness2:

[Signature]
Dr. Sachin B. Somwanshi

Witness4:

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN



LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY'S

COLLEGE OF PHARMACY (FOR WOMEN)

NASHIK



&

VIDISHA Analytical,

First Floor, Datar Apartment, Behind Tractor Center, Dwarka, Nashik - 422001



MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 28th of, June, Two Thousand Nineteen. (28-06-2019),

BETWEEN

LOKNENTE DR.BAJASAHEB VIKHEPATIL(PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK. represented herein by its **DR.MRS.C.J.BHANGALE** (here in after referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

VIDISHA Analytical, First floor, Datar Apartment, Behind Tractor Center, Dwarka, Nashik - 422001, and represented herein by its Head, **Mr. Digambar P. More**, (Director) (here in after referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named:

LOKNENTE DR.BAJASAHEB VIKHEPATIL(PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK.

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area



of Skill Based Training, Education and Research.

- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;
- E) **VIDISHA Analytical**, the Second Party is engaged in Business, Skill Development, Education and R&D Services in the fields of **Pharmaceutical Validation** and related fields.
- F) **VIDISHA Analytical**, the Second Party is promoted by **Mr. Digambar More**.
- G) Give related information, its branches, and dimensional information about the industry concerned with which the MoU is sworn.

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

CLAUSE 1: CO-OPERATION

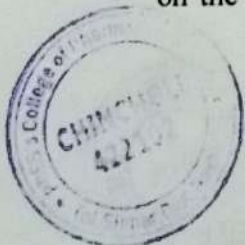
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- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU



shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2: SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions 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 knowledge.
- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
- 2.5 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Pharmaceuticals **related activities and services.**
- 2.6 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them



industry ready.

- 2.7 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- 2.8 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.10 There is no financial commitment on the part of the **Divine Collage of Pharmacy, Satana**, and the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3: INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4: VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **VIDISHA Analytical**, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner** or **DMIC Pharma**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations



CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.



Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Satana**.

AGREED:

LOKNENTE DR.BAJASAHEB VIKHEPATIL(PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK.

Bhangale

PRINCIPAL

PRES's College of Pharmacy (For Women),

Chincholi, Sinnar, Nashik - 422102.

Authorized Signatory



VIDISHA Analytical, Nashik

[Handwritten signature]



Authorized Signatory

LOKNENTE DR. BAJASAHEB VIKHEPATIL (PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETY'S, COLLEGE OF PHARMACY (FOR WOMEN), NASHIK.	VIDISHA Analytical, Nashik
AT-CHINCHOLI, TAL-SINNAR NASHIK.	Address: First floor, Datar Apartment, Behind Tractor Center, Dwarka, Nashik - 422001
Contact Details-9011140176	Contact Details – 9763483903
E-mails- pravaracopc@yahoo.co.in	E-mails – vidisha.analytical@gmail.com
Web – www.wcopcpravara.in	Web – www.vidishaanalytical.com

Witness1:

① *[Handwritten signature]*
(Kashid V. R.)

③ Witness2:

[Handwritten signature]

Witness3:

② *[Handwritten signature]*
(F. Y. Dolas)

Witness4:

NA

Summary of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year 2023-24

Organisation with which MoU is signed	List the actual activities under each MOU year wise	Number of students/teachers participated under MoUs
Biotox Research & Diagnostic Lab	Collaborative Research	Number of Students= 04
Cu-Succed Organization Kharadi, Pune	Employability's Mentorship Training Program	Number of Students = 72 Number of teachers = 04
Empower Research & Training Institute, Bengaluru	Seminar On Pharmacovigilance	Number of Students = 117 Number of teachers = 03
Genome Biotech Pvt. Ltd., Sinnar	Placements of the Student	Number of Students= 01
GDC Bilaspur	Career Guidance, GPAT Exam Preparation And Development of Soft Skills	Number of Students = 54 Number of teachers = 02
Kite AI Technologies Pvt. Ltd. Pune	Placements of the Student	Number of Students= 08
Manpriya Foundation, Mumbai	Soft Skill Development Courses	Number of Students= 91
RAP Analytical Research and Training Center, Nashik	Training Session(Internship)	Number of Students= 58
	Collaborative Research	Number of Students= 01
	Workshop	Number of Students = 72 Number of teachers = 02
Sangeeta Pharma, Sinnar, Nashik	Industrial Training	Number of Students= 02
Sanpras Healthcare Pvt. Ltd., Sinnar	Industrial Training	Number of Students = 01
Sangeeta Pharma, Sinnar, Nashik	Industrial Training	Number of Students = 02
V-Ensure Pharma Technologies Pvt Ltd	Industrial Visit	Number of Students = 75 Number of teachers = 02
Vidisha Analytical, Dwarka, Nashik	Industrial Visit	Number of Students = 71 Number of teachers = 02
	Collaborative Research	Number of Students = 12



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College of Pharmacy, Chincholi
Tal. Sinnar, Dist. Nashik 422102

**LIST OF COLLABORATING AGENCIES WITH CONTACT DETAILS
(2023-24)**

Sr. No	List of Partnering Agency	Contact Details
1	Advanced Enzyme Technologies	Advanced Enzyme Technologies A-61/62, MIDC, Malegaon Sinnar, Nashik, Maharashtra 422103
2	CSIR - National Chemical Laboratory (NCL)	CSIR - National Chemical Laboratory (NCL), Dr Homi Bhabha Rd, Ward No. 8, NCL Colony, Pashan, Pune, Maharashtra 411008
3	Holden Medical Laboratories Pvt. Ltd.	Holden Medical Laboratories Pvt Ltd., Malegaon MIDC, Sinnar, Nashik Contact Person: Mr. J. P. Kanawade Contact No. 02551-230590 www.holdenlabindia.com
4	Koral Pharma Pvt. Ltd.	Koral Pharma Plot No. 25/2/3, 'C' Road, MIDC, Satpur Colony, Nashik, Maharashtra 422007 https://www.koralpharma.in/
5	Matoshree Medical	Matoshree Medical , Shop 2, House 3559, DG road, Burud Ln, near Saibaba mandir, Patil Wada, Yeola, Maharashtra 423401
6	PharmaStar Academy	PharmaStar Academy, Street 2, Trimurti Nagar, Dombivli East, Gandhinagar, Dombivli, Maharashtra 421204
7	PHC Hospital	PHC Hospital, Dodi Khurd Sinnar, Nashik 422606
8	Pravara Rural Hospital, Loni	Pravara Rural Hospital, Loni Loni, Tal: Rahata, Dist: Ahmednagar, Maharashtra 413736
9	Sciquaint Innovations	Sciquaint Innovations Office No. 003, B1 Building, VKC Complex, Near Radheshwari Society, Bakori Road, Wagholi, Pune. 412207 Email: contact@sciquaint.com
10	SciTech Pharmaceutical Pvt. Ltd.	SciTech Musalgaon Tal; Sinnar Dist; Nashik Contact Person : Mr. Chaitanya Borawke Contact No. 91(22)41750000 scitech@scitech.net.in
11	Vineet Analytical	Vineet Analytical Sr no 62, 1, Mumbai - Pune Expy, near Sameer Lawns, Ravet, Pune, Palidevad, Maharashtra 412101
12	Wintech Pharmaceuticals Limited	Wintech Pharmaceuticals Limited V22V+XCP, Shankar Nagar, Musalgaon Industrial Area, Maharashtra 422112



Summary of Collaborative activities for Research, Faculty exchange, Student exchange/ internship during the year 2032-24

Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Nature of the activity
Internship	Advanced Enzyme Technologies, A-61/62, MIDC, Malegaon Sinnar, Nashik, Maharashtra 422103	Number of students = 04	Industrial Training
Research Project	CSIR - National Chemical Laboratory (NCL), Dr Homi Bhabha Rd, Ward No. 8, NCL Colony, Pashan, Pune, Maharashtra 411008	Number of students= 01	Research Project
Internship	Holden Medical Laboratories Pvt Ltd., Malegaon MIDC, Sinnar, Nashik Contact Peron: Mr. J. P. Kanawade Contact No. 02551-230590 www.holdenlabindia.com	Number of students = 01	Industrial Training
Internship	Koral Pharma Plot No. 25/2/3, 'C' Road, MIDC, Satpur Colony, Nashik, Maharashtra 422007 https://www.koralpharma.in/	Number of Students= 02	Industrial Training
Internship	Matoshree Medical , shop 2 house3559, DG road, Burud Ln, near saibaba mandir, Patil Wada, Yeola, Maharashtra 423401	Number of Students= 02	Medical Training
Webinar on "How to crack G-pat?"	PharmaStar Academy , Street 2, Trimurti Nagar, Dombivli East, Gandhinagar, Dombivli, Maharashtra 421204	Number of Students = 113 Number of teachers = 04	Knowledge Sharing Session
Field Visit	PHC Dodi Hospital, Khurd	Number of Students = 65 Number of teachers = 02	Hospital Visit
	Pravara Rural Hospital, Loni, Rahata, Ahmednagar, Maharashtra 413736	Number of Students = 65 Number of teachers = 03	Hospital Visit

Research Project	Sciquaint Innovations Office No. 003, B1 Building, VKC Complex, Near Radheshwari Society, Bakori Road, Wagholi, Pune. 412207 Email: contact@sciquaint.com	Number of students= 01	Collabrative Research Work
Research Project	SciTech Musalgaon Tal; Sinnar Dist; Nashik Contact Person : Mr. Chaitanya Borawke Contact No. 91(22)41750000 scitech@scitech.net.in	Number of students= 01	Collabrative Research Work
Research Project	Vineet Analytical Sr no 62, 1, Mumbai - Pune Expy, near Sameer Lawns, Ravet, Pune, Palidevad, Maharashtra 412101	Number of students= 01	Collabrative Research Work
Internship	Wintech Pharmaceuticals Limited V22V+XCP, Shankar Nagar, Musalgaon Industrial Area, Maharashtra 422112	Number of students= 02	Industrial Training



P. Phengale

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10. CERTIFICATE/ ADD-ON PROGRAMS

Certificate/Add-On programs aim to equip students with specialized skills and practical knowledge, fostering innovation, entrepreneurial thinking, and holistic development. These programs enhance employability by aligning with industry demands while promoting leadership, problem-solving, and global competency.

Academic Year	Name of Workshop
2023-24	Handling of sophisticated Instrument
	Clinical Research
	Web Development_“HTML”
	Regulatory Affairs and Intellectual Property (IVD & Medical Devices)



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COLLEGE OF PHARMACY (FOR WOMEN)

Chincholi, Nashik

Brochure for

Certificate Course in

"CLINICAL RESEARCH"

2023-24

Course Contents



CLINICAL RESEARCH



Module	Content	Module	Content
1	General Introduction	10	Clinical Trials Monitoring
2	Epidemiology & Evidence Based	11	Compliance And Audits
3	Medicine Pharmaceutical Medicine	12	Data Management And Biostatistics
4	Therapeutic Areas	13	Regulatory Affairs In Clinical Research
5	Ethics In Clinical Research	14	Medical Device Trials
6	Roles And Responsibilities	15	Project And Vendor Management
7	Clinical Trial Preparation	16	Financial Management Of Clinical Trials
8	Essential Documents And Regulatory Submission	17	Personality Development And Communication Skills
9	Study Start-Up		

Note:

1. Course will be of 30 Hrs.
2. Minimum 80 % Attendance is compulsory.
3. Assessment will be of 50 marks (multiple choice question for 25 marks & viva voice for 25 marks) & students should score minimum 25 (50%) marks for completion of course.
4. No registration fees for our college students

Contact us for more information PH:02551-271178 Mob No:9422935587

Email: pravaracopc@yahoo.co.in



CLINICAL RESEARCH
PROGRAM



Pravara Rural Education Society's
COLLEGE OF PHARMACY (FOR WOMEN)
Chincholi



Course Completion Certificate 2023-24

Awarded to

Chavan Sakshi Balu

In recognition and certification of having successfully completed all requirements of "Clinical Research"

Mr.M.T.Gaikar
(Academic Incharge)

Dr. K.B.Kotade
(Course Co-ordinator)

Dr.C.J.Bhangale
(Principal)



COLLEGE OF PHARMACY (FOR WOMEN)
Chincholi, Nashik



Brochure for
Certificate Course in
"HANDLING OF SOPHISTICATED INSTRUMENTS"

2023-24

Course Contents

Module	Content	Duration
1	General Introduction to "Pharma Instruments"	6 Hrs
2	Hands on Training on HPLC	6 Hrs
3	Hands on Training on IR Spectrophotometer	6 Hrs
4	Hands on Training on Dissolution Testing Apparatus	6 Hrs
5	Hands on Training on UV Visible Spectrophotometer	6 Hrs
6	Hands on Training on Brookfield Viscometer	6 Hrs

Note:

1. Course will be of 36 Hrs.
2. Minimum 80 % Attendance is compulsory.
3. Assessment will be of 50 marks (multiple choice question for 25 marks & viva voice for 25marks) & student should score minimum 25 (50%) marks for completion of course.
4. No registration fees for our college students.



Contact us for more information PH:02551-271178, Mob No:9422935587

[Email: pravaracopc@yahoo.co.in](mailto:pravaracopc@yahoo.co.in)



Pravara Rural Education Society's
COLLEGE OF PHARMACY (FOR WOMEN)
Chincholi



Course Completion Certificate 2023-24

Awarded to

Vatpade Tanavi Santosh

In recognition and certification of having successfully completed all requirements of "Handling of Sophisticated Instruments"

Mr.M.T.Gaikar
(Academic Incharge)

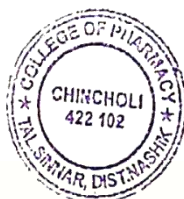
Dr.V.M.Gaware
(Course Co-ordinator)

Dr.C.J.Bhangale
(Principal)



Report on “Skill Development” (Academic Year 2023-24)

Name of Department/Committee	Skill development Department
Name of programmed organized	“Infosys Springboard” “HTML”
Title of the Programme	“WEB DEVELOPMENT” “HTML”
Date of event organized	06-02-2024 to 22-02-2024
Name of the coordinator of event	Mr. Balu T. Jagtap
Class of the Participant	Students
No. of Participant (Student+ Staff)	45+01
Name of the Expert with designation	1) Mrs. Lalita Bhangare Trainer, Infosys Springboard, Hydrabad 2) Meenakshi Vyas Infosys Springboard, Hydrabad
Objective of the event	1. Introduction to Web development and HTML. 2. Business opportunities in the Pharmacy sector 3. Preparing action plans for start-up 4. Market survey & Project Selection 5. Interaction with successful Entrepreneur & experience sharing
Outcome of the event	This program introduces the students about importance of insights about web development and web testing.





Also, students learned about the necessary aspects to start any start-up like idea validation, business plan, Market research, compliances, Govt. Schemes, etc. The sessions are activity-based for better understanding for the participants. Participants are equip themselves with the skills and knowledge they need to succeed in their businesses

Photo gallery



Jagtap
Mr. Balu T Jagtap
Coordinator

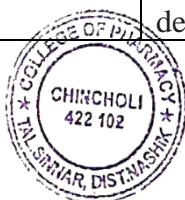


Bhangale
Dr. C. J. Bhangale
Principal
Principal
College of Pharmacy, Chincholi
Tal. Sinnar, Dist. Nashik 422102



Report on “Skill Development” (Academic Year 2023-24)

Name of Department/Committee	Skill development Department
Name of programmed organized	“Regulatory Affairs and Intellectual Property (IVD & Medical Devices)”
Title of the Programme	“Regulatory Affairs and Intellectual Property (IVD & Medical Devices)”
Date of event organized	20-03-2024 to 22-05-2024
Name of the coordinator of event	Mr. Balu T. Jagtap
Class of the Participant	Students
No. of Participant (Student)	45
Name of the Expert with designation	1) Mr. Balu T. Jagtap Asst. Professor, Pharmaceutics Dept. 2) Mr. Mayur T. Gaikar Asst. Professor, Pharmacology Dept. 3) Dr. Vinayak M. Gaware Asst. Professor, Medicinal Chemistry Pharmaceutical Chemistry Dept. 4) Mr. Vikas D. Kunde Asst. Professor, Pharmaceutics Dept.
Objective of the event	1) Introduction to Regulatory Affairs. 2) Business opportunities in the Pharmacy sector 3) Preparing action plans for start-up 4) Market survey & Project Selection 5) Interaction with successful Entrepreneur & experience sharing
Outcome of the event	This program introduces the students about the important of insights about web development and web testing.





LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY'S
COLLEGE OF PHARMACY (FOR WOMEN)
NASHIK

Also, students learned about the necessary aspects to start any start-up like Idea validation, business plan, Market research, compliances, Govt. Schemes, etc. The sessions are activity-based for better understanding for the participants. Participants are equipping themselves with the skills and knowledge; they need to succeed in their businesses.

Photo gallery



Jagtap
Mr. Balu T. Jagtap
Co-Coordinator



Bhangale
Dr. C. J. Bhangale
Principal
College of Pharmacy, Chincholi
Tal. Sinnar, Dist. Nashik 422102

Approved by AICTE, Pharmacy Council of India, New Delhi and recognized by Govt. of Maharashtra
AISHE Code No. C-44115

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