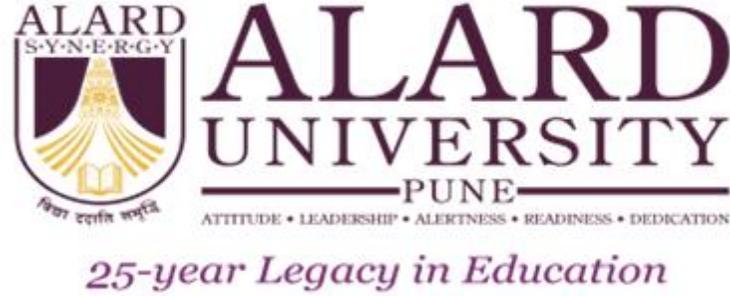


ALARD UNIVERSITY PUNE



Research and Development (R & D) Newsletter

2024-25

Compiled by -

Dr. Prakash R. Somani

Head (R & D), Alard University Pune

2. Executive Summary

- **Objectives of R & D Cell at AUP:**

The Research & Development (R & D) cell at Alard University Pune aim to create a dynamic and supportive platform that stimulates and guides for research excellence; promotes inventions, innovations, and discoveries; and encourage technology-driven entrepreneurship that can contribute to National and Social growth.

The objectives are:

- **Cultivating and Promoting Research Excellence:** Striving for excellence in research and cultivating it by providing resources, knowledge, infrastructure, and collaborative support to researchers, professors and students of the university, enabling them to pursue cutting-edge R & D work.
- **Promoting Interdisciplinary / Cross-Disciplinary Collaboration:** Encouraging interdisciplinary collaboration between researchers, startups, and industry partners to tackle complex challenges and global issues.
- **Creating Collaborative Opportunities:** Fostering collaboration between researchers/professors and industry for forward innovation and wealth creation.
- **Facilitating Technology Transfer:** Facilitating the transfer of technology and know-how from R & D outcomes to industries and startups for commercialization and thereby social benefit.
- **Fostering Innovation, invention and discovery culture:** Encouraging a culture of innovation, invention, and discovery within the organization.
- **Supporting Startup Ecosystem:** Nourishing the growth and development of startups by guiding and providing access to research expertise, mentors, venture capitalist, seed funding, and available facilities
- **Enhancing Industry Partnerships:** Strengthening partnerships with Indian and Multinational industries to identify research needs, explore collaborative projects/product development, and facilitate technology transfer and commercialization.
- **Promoting Intellectual Property Rights and Management:** Developing strategies for intellectual property management, including patenting, copyrighting, licensing, and protection of research outcomes and startup innovations.
- **Encouraging Entrepreneurship and traditional family businesses:** Encouraging new age entrepreneurship as well as taking forward the traditional family businesses by students and faculty members of our university by providing incubation support, entrepreneurship training, and networking opportunities.
- **Monitoring and Evaluation:** Monitoring the progress and impact of R & D activities at AUP, evaluating outcomes against predefined metrics, and taking necessary actions to achieve objectives.
- **Award and honors to the best researchers of AUP:** To identify and recommend the names of the faculty members and students for best researcher/professor/teacher award to AUP every year.

- **Activity / Role and Responsibility of the R & D Cell**

R & D cell at Alard University Pune is responsible for the following activities:

- To stimulate/encourage R & D in various schools of the university
- To guide and help faculty members of the university in their R & D work, drafting and publishing research papers / sponsored project proposals
- To educate faculty members of the university for IPR
- To guide and help faculty members of the university in drafting and filing of patents and copyrights
- To identify thematic areas / important research topics as per the need of the society and nation
- To start and establish thematic research centers / laboratories in the university
- To guide and help in arranging thematic conferences at various schools of the university
- To arrange and conduct faculty development programs (FDPs) for educating faculty members of the university in current science and technologies
- To collaborate with National and International institutes / universities for R & D cooperation
- To conduct and overall management of the Ph. D. course in various subjects at the university
- To represent Alard University Pune for its in-house R & D work at National and International level

- [Overview of Research activities, key achievements, and Strategic goals](#)

Alard university Pune has five schools namely Alard School of Engineering and Technology, Alard School of Pharmacy, Alard School of Health and Biosciences, Alard School of Business Management, and Alard School of Law. Every school is engaged in R & D work in certain important and advanced areas identified through/in collaboration with its Post-Graduate and Ph. D. students.

Alard School of Engineering and Technology is engaged in R & D work in the areas of Artificial Intelligence, cyber security and forensics, data science and management, data analytics, image analysis for early stage disease detection, machine learning, 3D printing, civil engineering and environmental issues, power electronics, Nanotechnology and nanoelectronics, solar energy conversion and utilization, mechanical properties of fiber reinforced polymers, Additive manufacturing.

Alard School of Pharmacy focusses on using chemical methods for synthesis of new drug molecules and their evaluations, particularly quanzalone and triazoloimidazole derivatives for therapeutic applications, using natural extracts of plants for treatment of diseases and disorders and wound healing.

Alard School of Health and Biosciences is trying to understand the pattern of medical tourism in India, particularly in Maharashtra and its future prospects; educating marginalized / poor women's for self-examining the breasts for breast cancer and its impact in Pune.

Alard School of Law is conducting research in to the Cyber laws (IT Act) and their implementations, constitution and fundamental rights, and criminal laws.

Alard School of Business Management is conducting research on applying artificial intelligence for various activities like hiring of manpower, marketing challenges, influence of digital devices like smart phones on the purchasing behavior of youths, cloud based financial management, risk management and HR interventions etc.

All the schools have experts/Professors which are recognized as Ph. D. guides of the university and conducts research in their own area of expertise or interest.

- **Key achievements**

- (1) Admitted 37 number of Ph. D. students for 2024-25 batch out of which 35 number of Ph. D. students are in their second year of the course and are progressing in their research work towards achieving Ph. D. degree
- (2) Admitted 44 number of Ph. D. students for 2025-26 batch. Their course work is started from 8th November 2025. All of them are making good progress on their studies
- (3) AUP faculty members are getting good recognition in the form of awards, editorial board member positions on the national and international research journals

- **Strategic goals**

- To establish a mark of Alard University Pune (AUP) in Research and Development (R & D) at National and International level via publishing impactful research papers, patent filings, conference presentations, invited talks, and collaborations.
- To establish strong R & D collaboration activities with leading universities and institutes of National Importance in India and abroad
- To establish Thematic Center of Excellences in AUP in the identified areas

- **Summary of Progress compared to previous year**

Progress report for the previous year is not available.

3. Organizational structure

- **Composition of the R & D cell (members and roles)**

R and D cell is headed and directed by **Prof. Dr. Prakash R. Somani** who is a well-known Scientist and Professor in the area of Applied Physics and Nanotechnology. He is enlisted among Top 2 % Scientist in the World in the area of Applied Physics as per Stanford University USA and Elsevier evaluation from 2020 to 2025.

Structure of the R & D Cell is as below:

No.	Name of the person	Position	E mail
1	Prof. Dr. Prakash R. Somani	Director (R & D Cell)	p.somani@alarduniversity.edu.in
2	Shri. Abhijit S. Tapkire	Co-coordinator	a.tapkire@alarduniversity.edu.in
3	Dr. Shilpa Shinde	R & D Coordinator – School of Engineering and Technology, AUP	sv.shinde@alarduniversity.edu.in
4	Dr. Madhuri Shelar- Chondhe	R & D Coordinator – School of Pharmacy, AUP	M.Chondhe@alarduniversity.edu.in
5	(Dr.) Binal Joshi	R & D Coordinator – School of Business Management, AUP	b.joshi@alarduniversity.edu.in
6	Dr. Disha Senjaliya	R & D Coordinator – Health and Biosciences	D.senjaliya@alarduniversity.edu.in
7	Dr. Akhilesh Pandey	R & D Coordinator – School of Law	Dean.law@alarduniversity.edu.in

		
Prof. Dr. Prakash R. Somani	Shri. Abhijit S. Tapkire	Dr. Shilpa Shinde
		
Dr. Madhuri Shelar-Chondhe	(Dr.) Binal Joshi	Dr. Disha Senjaliya



Dr. Akhilesh Pandey

- All the R & D Coordinators from different schools of the university directly report to and work under the guidance of the Director of the R & D Cell. Mr. Abhijit help in coordinating and conducting the day-to-day activities of the cell. Mr. Abhijit Tapkiare is also perusing Ph. D. in education sector.

Roles and responsibilities of the members of R & D Cell:

No.	Position	Role	Responsibilities
1	Director of the R & D Cell	<ul style="list-style-type: none"> • To implement the policy decisions taken by the University Research Committee (URC) for R & D 	<ul style="list-style-type: none"> • To direct, coordinate, and lead various R & D activities of the university • To represent university for its in-house R & D work at the National and International Level. • To manage R & D Cell and Ph. D. cell activities
2	R & D Coordinators	<ul style="list-style-type: none"> • To coordinate the R & D activities at the university School level • To mediate between R & D Cell and the faculty members of the department 	<ul style="list-style-type: none"> • Keeping record of the R & D output, faculty and student achievements, sponsored projects received at the School / department level and to communicate the same with the R & D Cell. • To assist R & D cell in smooth functioning of its activities
3	Coordinators from various Schools of the university	<ul style="list-style-type: none"> • To assist Director (R & D) for smooth functioning of the 	<ul style="list-style-type: none"> • To make follow-up of various timely submissions needed by Ph. D. students, including payment of university fee

		R & D cell on daily basis.	<ul style="list-style-type: none"> To communicate various notices by the R & D cell with the Ph. D. students To assist Director (R & D) for smooth functioning of the R & D cell on a daily basis.
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Research and Development (R & D) policy:

R & D Cell implements the R & D policy suggested and drafted by the University Research Committee (URC).

- **Governance and decision-making framework**
 1. R & D policy including the Ph. D. regulations are decided by the University Research Committee (URC) which is headed by the Hon'ble Vice Chancellor of the Alard University Pune.
 2. All the decisions by URC and Ph. D. regulations are implemented by the R & D Cell in AUP through School Research Committees
 3. Head (R & D) works in close co-operation with the School Research Committees (SRCs) and implement the policy and regulatory decisions taken in URC
 4. Every School of Alard University Pune (AUP) has its own School Research Committee (SRC) which is headed by the Dean of that particular School and consist of Dean, School R & D Coordinator, Ph. D. recognized guides of that particular School as members.
 5. Head (R & D) cell directly reports to Hon'ble Vice Chancellor Sir for daily work and approvals.

4. Research Projects

- List of funded research projects (government, industry, international): Nil
- Ongoing and completed projects with brief summaries: Nil
- **Interdisciplinary and collaborative initiatives:**
 - Research topics given to the Ph. D. students are of interdisciplinary nature
 - Whenever needed and suitable, Ph. D. students have been given co-guide to have collaborative R & D work

5. Publications and Intellectual Property

- Number and types of publications (journals, conferences, books)

No	Details	Number
1	Research papers published in International Journals	18
2	Research papers published in National journals	19
3	Research papers presented in International Conferences	03
4	Research papers presented in National Conferences	06

5	Book chapters / Books authored or edited	01
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- **Impact factor and indexing details:**
Impact factor of the journals in which research papers are published is not high but we are making consistent efforts to publish in high impact factor research journals.
- **Patents filed, granted, or commercialized:**
 - Number of Patents filed: 03
 - Number of Patents Granted: 00
 - Number of Patents Commercialized: 00

List of Patents Filed:

1	Kookaburra-walrus optimization algorithm for multi-objective task scheduling in cloud Inventors: Ms. Babeetta Bbhatgat and Dr. Pallavi Jha Indian Patent Applied, Date of filing: 21/06/2025 Application No.: 202521059663 A
2	Hybrid fused survival prediction model using PAN cancer Gene expressions data with Kernel-based clustering process Inventors: Mrs. Swati Anand Powar and Dr. Pallavi Jha Indian Patent Applied, Date of Filing: 21/06/2025 Application no.: 202521059662
3	A herbal antifungal cream Inventors: Tushar Patil Indian Patent Applied, 30 May 2025

- **Copyrights and trademarks registered:**

No.	Copyright details
1	The Brain Tumor Detection Using Image Processing project is designed to harness the power of advanced image processing techniques and machine learning algorithms to facilitate the early detection DR. GOPALKRISHNA D DALVI, DISHA NAGPURE ALARD UNIVERSITY PUNE Indian Copyright Copyright Application / Filing No.: LD-30941/2025-CO Copyright Registration Date: 02/08/2025
2	Detection of Brain Tumor Using Quantum convolutional pyramid forward Taylor networks

	DR. GOPALKRISHNA D DALVI, DISHA NAGPURE ALARD UNIVERSITY PUNE Indian Copyright Copyright Application/Filing No: LD-33879/2025-CO Copyright Registration Date: 22/08/2025
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- Design filed for registration:

No.	Design Details
1	Cloud computing server machine for data analytics Inventors: Prof. Disha Nagpure, Mrs. Sangita N. Bhasme, Dr. Bhawna Sinha, S. Priyadharshini, Dr. Swarna Surekha, G. T. Jayalaxmi, Dr. Reema Sandhu, Hardeep Kumar Design Number: 446719-001 Date of registration: 04/02/2025

6. Grants and funding

- Grants received (source, amount, duration): Nil

- Internal funding schemes and seed grants

Number of *In-house* Research Projects sanctioned: Nil

Number of Seed grants given: Nil

- Utilization and financial summary
Not Applicable

7. Collaborations and MoUs

- National and International Collaborations

MOU signed between Alard University Pune and BAPIO Training Academy, Bedford, United Kingdom (UK).

- MoUs signed with industries, research institutes, or universities

Alard School of Pharmacy:

No.	Industry /organization with which MOU is signed	Year of signing MOU	Duration	Title of the MoU	Activities under MOU
1.	CIREE	2024	01/09/2024 to 31/08/2025	Technical Training	Skill development workshop
2.	BAPIO Training academy	2024	09/12/2024 to 08/12/2029	Training, Funding for joint project	-
3.	Paripoorn foods LLP	2025	07/03/2025 to 06/03/2028	Training Internship	Seminar
4.	Sapiens Labs, Baddi, Himachal Pradesh, India.	2025	19/03/2025-18/03/28	Industrial Visit Training Internship	Industrial visit
5.	Sciquat Innovations (OPC) Pvt. Ltd.	2025	25/03/2025-24/03/2028	Research	Workshop on Tools and Strategies for effective research
6.	MultiTarget AI JPS LLP	2025	20/03/2025-19/03/2028	Research	-
7.	Apex Institute	2025		Seminar	Guidance session on Competitive exams
8.	Cryst Bio Solutions Pvt. Ltd.	2025	11/04/2025-10/4/30	Research	-
9.	Rajaswa Pharmaceuticals Pvt. Ltd., Phata, Pirangut, Pune, Maharashtra	2025	30/05/2025-29/05/2028	Industrial visit, Internship	Training, Industrial visit
10.	Wayda Research Center, Satara (lonand)	2025	24/07/2025-23/07/2027	Research	Seminar, Workshop

11.	Unity medicare, Pune, Maharashtra, India.	2025	2025	Training	Seminars, Training
12.	SSVS'S R. G. GHOLAP Memorial Blood Centre	2025	26/08/2025 -	Social Activities	Awareness program, Health Check-up program, Blood donation camp
13.	Prathmesh Infotech Pune, Maharashtra, India	2025	22/07/2025-31/05/227	Training	Seminar

Alard School of Engineering and Technology:

No	Organization	Academic Year	Duration	Activity Conducted
1	Bigtam Technologies Pvt. Ltd.	2024-25	3 Years	Internship
2	Seed Infotech Ltd.	2025-26	3 Years	Internship
3	EventBeep Techno services Pvt. Ltd.	2025-26	3 Years	Internship

Alard School of Health and Biosciences:

No	Name of Industry
1	Ruby hall Clinic, Sasoon, Pune, Maharashtra, India.
2	Sai Datta and Sanjivini hospital, Hinjewadi, Pune, Maharashtra, India.
3	Health swayam lab, Chakan, Maharashtra, India.
4	NYSA Training Centre, Mumbai, Maharashtra, India.
5	Abhinav Training Centre

- [Joint research outcomes or exchange programs](#)

Various MoUs signed by the Schools of Alard University Pune is helping students in better learning, skill development, shop-floor training, and improving the awareness.

No exchange program is there at present at AUP.

8. Innovations and Incubations

- Startups incubated or mentored: Nil
- Technology transfers and commercialization efforts: Nil
- Participation in innovation challenges and expos: Nil

9. Capacity building

- Workshops, seminars, and training programs organized

Alard School of Engineering and Technology: Events organized

No.	Event	Date
1	Industrial Visit to M/s. 1-Medita	20.09.2024
2	Guest Lecture on Agile Product Development	02.12.2024
3	EV Design in association with GTT Foundation, Pune	22.01.2025
4	Guest Lecture on IT Career Path: Exploring opportunities and Tackling Challenges	24.01.2025
5	Workshop on Interview Skills	31.01.2025
6	Workshop on Data Science and Machine Learning	03.02.2025
7	Workshop of Full Stack Projects	11.03.2025
8	Project Exhibition	03.03.2025
9	Skill Enhancement course in association with IBM Skill Build	22.05.2025

Alard School of Pharmacy: Workshops, seminars, and training programs conducted

Sr. No	Activity	Dates
3	Industrial visit at AYUSH research centre	20/08/24
5	AVISHKAR 2024-25 Institute Level Poster Presentation	25/10/24
4	ANVESHAN 2025- One Day National Conference	08/02/2025
5	Industry Oriented training programme in Analytical Instrumentation at MAGS-IATRC Research and training Pvt.Ltd	17/03/2025- 21/03/2025

2	One day workshop on tools and strategies for effective research	26/03/2025
3	Seminar on Instrumental in Pharmaceutical industry- UV,IR,HPLC	09/07/2025
4	Seminar on In silico study in Pharmaceutical research	10/07/2025
5	AVISHKAR 2025-26 Institute Level Poster Presentation	13/09/2025
6	Clinical research training session	23/09/2025
7	Seminar on Intellectual Property rights	27/09/2025
8	Model Making competition	24/09/2025

- Faculty and student participation in research skill development

1. Dr. Deep Tripathi participated in the One Week National Level faculty Development Program on 'Research Excellence in Engineering Fields' held on 10 – 14 March 2025, organized by Department of Civil Engineering and R & D Cell, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune – 18, Maharashtra, India.



- Dr. Deep Tripathi attended three days online Faculty Development Program (FDP) on 'Advancements in Concrete Technology: Microstructure, High Temperature Effects and Strengthening' organized by Jaihind College of Engineering, Kuran from 15 April 2025 to 17 April 2025.



- Research methodology and ethics for Ph. D. students
Course work for Ph. D. students admitted in the academic year 2024-25 was conducted as per the UGC norms with special emphasis on the Research Methodology, and Research and Publication Ethics.

No.	Number		Comments
1	Number of Ph. D. scholars successfully completed the Course Work	35	-
2	Number of students not completed the Course work	01	Health issue of the candidate

Candidate who could not complete the course work is advised to complete it next year again. Feedback is taken from the students about the Course work. Students ascertain how to choose the research topic, how to do literature search and identify the area in which significant contribution can be made by way of R & D, how to write the Ph. D. synopsis and Research Papers and publish them in high impact journals through this course.

- Talk on Intellectual Property Rights (IPR) – Copyrights:

Dr. Prakash R. Somani has given a talk on Intellectual Property Rights (IPR) – Copyrights at Alard School of Pharmacy on 27/09/2025 which was attended by the faculty members and students of pharmacy. He highlighted the importance of IPR laws and discussed the high profile cases of plagiarism in Indian academics and the results.

10. Student research engagement

- Student research projects (UG, PG, PhD)

Total number of Student research Projects: 108

	2024-25	2025-26	Total
Alard School of Pharmacy:			
UG	00	00	00
PG	-	27	27
Ph. D.	04	10	14
Alard School of Engineering and Technology:			
UG	00	00	00
PG	00	00	00
Ph. D.	19	21	40
Alard School of Health and Biosciences:			
UG	00	00	00
PG	00	00	00
Ph. D.	03	06	09
Alard School of Business Management:			
UG	00	00	00
PG	00	00	00
Ph. D.	11	02	13
Alard School of Law:			
U.G.	00	00	00
P.G.	00	00	00
Ph. D.	00	05	05

- Research internships and assistantships

Total Number of Student Research Internships and assistantships: 63

	2024-25	2025-26	Total
Alard School of Pharmacy			
UG	00	00	00
PG	--	19	19
Alard School of Engineering and Technology:			
UG	00	00	00
PG	00	00	00
Alard School of Health and Biosciences:			
UG	--	44	44
PG	00	00	00
Alard School of Business Management:			
UG	00	00	00
PG	00	00	00
Alard School of Law:			
U.G.	00	00	00
P.G.	00	00	00
	00	00	00

- Awards and recognitions for student research: Nil

Name of the Alard Student awardee	Title of innovation	Awarding Agency	Date of Award	Category
Sumit Kumbhar Alard School of Pharmacy	Emotion Detector	MSME Idea Hackathon Indira college of	01/07/2025	Grant of 13.5 lakhs

		Engineering & Management		
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Winners in poster competition:

No.	Name of Participant	Name of Workshop/ conference	Title of Presentation
1.	Nikita Navsare (PG) Alard School of Pharmacy	Two days National Level Conference on 'Global Quality Trends in Pharma Industrie, 18 th -19 th Oct 2025	Oral presentation- Polyherbal Antibacterial footspray
2.	Vedant Shaligram(PG) Alard School of Pharmacy	Two days National Level Conference on 'Global Quality Trends in Pharma Industrie, 18 th -19 th Oct 2025	Oral presentation- Networking Pharmacology
3.	Gayatri Bhoir(UG) Alard School of Pharmacy	ANVESHAN- One Day National Conference On "Emerging trends in Pharmacy, Health Sciences, Management and Technology"	Oral presentation – Formulation and evaluation of chitosan based Neolamarckia cadamba (kadamba) leaf extract gel for wound healing

11. Achievements and recognitions

- Awards, fellowships, and honors received by faculty and researchers:

No.	Research paper details
1	Best Young Researcher with Outstanding Postdoctoral Experience Award Dr. Deep Tripathi By Innovative Research & Education Academy, Tamil Nadu, India Date of receipt: 17 th September 2025

	 <p>The certificate is for Dr. Deep Tripathi, Assistant Professor at Alard University Pune. It recognizes him as the 'Best Young Researcher with Outstanding Postdoctoral Experience Award' for his contributions in Civil Engineering during 2025-2026. The award is presented by the Innovative Research & Education Academy, Cuddalore, Tamil Nadu, India. The certificate is signed by Dr. S. Lawanya, Founder and Director of the academy.</p>
2	<p>Dr. Deep Tripathi – Alard School of Engineering and Technology Has become the Editorial Board Member of the Research journal ‘International Journal of Multidisciplinary Science and Technology’ published by Reru Group of Publications, India.</p>
3	<p>Dr. Deep Tripathi – Alard School of Engineering and Technology Has become the Editorial Board member of the journal ‘Journal of Civil, Construction’ published by Science Publishing Group, India.</p>

- Recognitions by the faculty members

No.	Name of the faculty	Name of the School / Department	Recognition
1	Dr. Prakash R. Somani	School of Engineering and Technology	Enlisted in Top 2 % Scientist in the World in the area of Applied Physics as per Stanford University USA and Elsevier evaluation for 2025.

2	Prof. Dr. C. P. Jawahar	School of Engineering and Technology	Associate Editor, Journal of Process Mechanical Engineering (Publisher: Sage) - SCI & Scopus Indexed Journal.
			Swayam Prabha DTH Project on the course "Refrigeration and Cold Chain Management" at IIT Titupati (On-going).

- **Notable publications or breakthroughs:**

1. Dr. C. P. Jawahar has published a Book chapter entitled 'Hydrogen energy horizon: Challenges and barrier identification in adoption of hydrogen energy' in 'Fueling the Future: Intelligent Approaches for Harnessing Hydrogen Energy, Elsevier 2026, Page no. 347 to 367.

12. Challenges and recommendations

- **Bottlenecks in research infrastructure or funding**
 - Unavailability of research laboratories
 - Unavailability of Professors who have research aptitude
 - Unavailability of Seed grants for establishing a research laboratory
- **Suggestions for improvement and strategic planning**
 - In-house thematic research laboratories need to be established centered around a Professor / expert available at the university
 - Professors with established research credentials and demonstrated expertise needs to be recruited
 - Seed grants (In-house R & D projects of up to Rs. 10 Lakh) needs to be given to the new faculty members to establish a research laboratory/research program at the university
 - Monetary incentive may be given for publishing research papers in International Journals by our faculty members and Ph. D. students
 - Awards may be given to the students and faculty members for producing quality research output
 - **Sponsoring in-house faculty members for Ph. D. degree:** Complete Ph. D. wavier may please be given to the in-house faculty members who register themselves for Ph. D. degree at AUP and a contract/MoU can be made with these employees to serve the university at least for a period of 5 years after completion of their Ph. D. degree; In case, the employees break this contract; there shall be a penalty of Rs. 5 Lakhs.

- R & D coordinators of different schools needs to be trained to keep and maintain official records related to R & D

13. Future plans

- **Goals for the next academic year (2026-27):**
 - Establishing Center of Excellence in Pharmaceutical Chemistry
 - Establishing 3D printer laboratory
 - Admitted new 40+ Ph. D. students
 - MoU for research collaboration with National Labs/Universities (05)
 - At least 25 Research papers in peer-reviewed International/National journals
 - At least 25 research paper presentations in National/International Conferences
- **Focus areas for research and innovation:**

Following are the focus areas of research and innovations for different schools of the university.

School of Engineering and Technology:

- Artificial Intelligence (AI)
- Cyber security and cyber forensics
- Data science and analytics
- Image analysis for various applications
- Machine learning

School of Pharmacy:

- New drug designing and testing for diseases like cancer, chronic diseases
- Developing drug formulations for treatment of various diseases and medical conditions

School of Health and Biosciences:

-

School of Business Management:

- Use of AI in various business management areas like HR, marketing, financial decision making, recruitment process in an organization etc.
-

School of Law:

- Impact and effect of new laws adapted by Indian Govt. via BNSS
- Cyber-criminal laws and Intellectual Property (IP) laws
- Fundamental rights
- Civil personal laws and their deficiency

- **Plans for enhancing research visibility and impact**

Research visibility and its impact will be increased via –

- Publishing quality research papers in peer-reviewed National and International journals
- Presenting the research results in National and International Conferences in India
- Encouraging the faculty members to start their Google Scholar Profiles and have their own ORCID ID
- Deputing the suitable faculty members as Resource Persons to give invited talks at FDPs, Conferences, Workshops etc.

14. Annexures

Annexure 1: Publication Records

Annexure 2: Copyrights and Designs Registration Certificates

Annexure 3: Central Facilities

Annexure 4: Photographs of the events

Annexure 5: Student research projects

Annexure 6: Research internships

Annexure 1: Publication records

(A) Research Papers published in International Journals:

No.	Research paper details
Alard School of Pharmacy:	
1	<p>Solanum Anguivi: A comprehensive review of its botanical significance and medicinal potential M. Kamble, N. Madesh, S. Purwar, S. Yadav, T. Shitole European Journal of Pharmaceutical and Medical Research 11/4 (2024) 394-400.</p>
2	<p>An assessment of EGFR and HER2 inhibitors with structure activity relationship of fused pyrimidine derivatives for breast cancer: A brief review P .Dhiwar, GS Purawarga, R Pal, E Singh, A. Ghara, L. Maji, S. Sengupta, G. Andhale , Journal of Biomolecular Structure and Dynamics, 11; 42(3)(2024) 1564-81.</p>
3	<p>A review on Stroke’s Pathophysiology, associated risk factors, and management. M. Zade, S. Singh, N. Sutar, P. Kaple, P. Marathe, P. Shinde Current Drug Therapy. 2024 DOI-19. 10.2174/0115748855309906240903050708.</p>
4	<p>Stability indicating HPTLC method development and validation for the analysis of novel nitroimidazole antitubercular drug delamanid V. Pardeshi , T. Lokhande Istanbul Journal of Pharmacy Istanbul 54/2 (2024) 240–246</p>
5	<p>Development and characterization of luliconazole loaded nanosponges for topical application J. Kendre, S. Nagoba, S. Dhole, S. Awale, S. Bidri, S. Humnabade, R. Malshette European Chemical Bulletin 12 (2023) 1878- 1889</p>
6	<p>Catahranthus roseus leaf assisted green synthesis of metal oxide nanoparticles: A review D. Ansarwade, S. Patil, European Journal of Pharmaceutical and Medical Research 10/1 (2023) 86-91</p>
7	<p>QbD based development and validation of RP-HPLC method for estimation of Spironolactone: Application to bioanalytical and stability study in plasma J. Shinde, P. K. Sharma, J. Sharma, European chemical Bulletin 12/4 (2023) 1652-1673.</p>
8	<p>A comprehensive study on impact of Brexit on medical device application for Europe & United Kingdom. K Sanket, J Kadam, M Shelar. Journal of Coastal Life Medicine, 29/11 (2023) 127-37.</p>
9	<p>Formulation and evaluation of oral soluble film of Silybum marinum seed extract</p>

	S. Saravade , S.Singh , P. Kaple, S. Mahaka, G, Kendre, A. Chame European Chemical Bulletin 12/4 (2023) 15390-15397
10	Formulation and evaluation of mouth dissolving tablets of Levamisole Hydrochloride R. Kolekar, S. Singh, P. Kaple, S. Shirke, S. Agrawal, R. Shinde European Chemical Bulletin 12/4 (2023) 15398- 15406
11	Formulation and evaluation of fast disintegrating tablet of Diclofenac Potassium using Plantago Ovata seed Mucilage powder as a natural superdisintegrant N. Narkar , S. Singh, V. Chatur , P. Kaple, L. Chauhan, A. Lamjane European Chemical Bulletin 12/4 (2023) 15380- 15389
12	Comparative evaluation of Basil seeds powder as superdisintegrant with other disintegrant for formulation of Ketorolac Tromethamine tablet R. Jadhav, S. Singh, P. Kaple, V. Chatur, K. Sahu, European Chemical Bulletin 12/4 (2023) 16308- 16317
13	Solubility enhancement of Famotidine by liqui solid technique A. Khodankar, S. Singh, P. Kaple, V. Chatur ,C. Padwal , K. Bhujabal European Chemical Bulletin 12/4 (2023), 15364- 15379
Alard School of Engineering and Technology:	
1	A review on hybrid artificial intelligence systems for integrating circuit-level optimization with machine learning algorithms Umesh Balkishan Phiske, Gopalkrishna D. Dalvi International Journal of Scientific Research in Engineering and Management (IJSREM), 2025, Pages 1 – 19; DOI: 10.55041/IJSREM51084
2	Experimental investigations on performance improvement of multi point sequential fuel injection engine by reducing back pressure Chandrakumar Pardhi, Anshul Gangele, Sanjay Chhalotre, C.P. Jawahar, Journal of Thermal Engineering, Vol. 11, No. 5, pp. 1–10, September, 2025 DOI: 10.14744/thermal.0000000
Alard School of Business Management: Nil	
Alard School of Health and Biosciences:	
1	Holoptelea integrifolia bark and leaves phytochemicals for oral–dental infection. Petwal, S. et al. (2019). Int. J. Pharma Bio Sci., 10(4), pp. 112–123.
2	Mangifera indica kernel phytochemicals: A potent remedy for oral-dental infection. Petwal, S. et al. (2020). Int. J. Pharma Bio Sci., 11(1), pp. 43–50.
3	Comparative study on biochemical and molecular identification approaches of Lactobacillus species.

D. P. Senjaliya, J.J. Georrge International Food Research Journal 30/5 (2023) 105-1124. DOI: https://doi.org/10.47836/ifrj.30.5.03 IF: 1.104
Alard School of Law: Nil

(B) Research Papers published in National Journals:

No.	Research paper details
Alard School of Pharmacy:	
1	Organogels methodology and types of organogelators R. Khemnar, S. Singh, N. Sutar, P. Kaple, A. Kulkarni, V. Dherange, P. Chavan, International Journal of Pharmaceutical Sciences 2/3 (2024) 435-444
2	Medicinal properties of Nycanthes Arbotristis V. Dherange, S. Singh, N. Sutar, P. Kaple, A. Kulkarni, P. Chavan, International Journal of Pharmaceutical Sciences 2/3 (2024) 772-786.
3	Polymer paradigm: Revolutionizing drug delivery S. Raul, T. Bhalekar, C. Hyalig, S. Shikalgar, Bohr Journal of Pharmaceutical studies, 2/1 (2024) 5-12.
4	Rediscovering conkerberry (Carissa lanceolata): A traditional ethanobotanical treasure M. Kawade, S. Singh, A. golande, N. dhanawade, S. Chakankar, International Journal of novel research and development 10(3), (2025) 301-314.
5	To treat Duchenne muscular dystrophy with AGAMREE (Vamorolone) M. Kawade, S. Singh, A. Bhosle, K. Rathod, H. Nandani International Journal of creative research Thoughts 13(1), (2025) 271-b280
6	Transdermal patch: A comprehensive review D. Kamble, S. Chawhate, P. Shelke, A. Chawhate, World Journal of Pharmacy and Pharmaceutical Sciences, 14/2 (2025) 290-310
7	Recent advancements in the medicinal applications of Goji Berries A. Kshirsagar, A. Ujjainkar, J. Vidap, P. Bhatkar, A. Yelpale, S. Pawar, S. Devkatte, World Journal of Pharmaceutical Research, 14/8 (2025) 1206-1229
8	Intraocular Tuberculosis: A comprehensive review of pathogenesis, diagnosis and treatment J. Soundarmal, M. Kamble, P. More, A. Kohale, M. Bhawane, International Journal of novel research and development 10/4 (2025) c182-c184
9	Beyond the Lavender: Introduction, chemical constituents, uses, and marketed product

	S. Chorghe, N. Choudhary, S. Pawale, M. Kamble International Journal of novel research and development 10/4 (2025) g162-g166.
10	Auto-Brewery Syndrome: A clearer look Y. sambar, M. Kamble, J. Soundarmal International Journal of novel research and development 10/6 (2025) c-606- c614
11	Formulation, evaluation, and antibacterial activity of polyherbal hand wash D. Ansarwade, V. Chavan, N. Chandere, Int. J. Pharm. Sci. Rev. Res. 80/2 (2023) 65-69
12	Glycyrrhiza glabra assisted green synthesis of metallic nanoparticles with different applications: A review R. Bairagi, S. Patil, International Journal of Life Sciences Research Archive, 4/1 (2023) 36-39.
Alard School of Business Management:	
1	Branding mis-steps Dog Uber Arun Kumar Sharma, Deepak Navalgund International Journal of Management, IT and Engineering ISSN No. : 2249-0558 (Vol. 5), Issue 8, Pg. 38-53
2	Global Digital Marketing Strategies Arun Kumar Sharma, Deepak Navalgund International Journal Of Management, IT and Engineering ISSN No. : 2249-0558 (Vol. 5), Issue 8, Pg. 64-70
3	Role of Advertising in Consumer's Buying Decision: A Review of Literature Indian Journal of Applied Research ISSN No. 2249-555X Vol. 12, Impact Factor: 6.03 UGC Sr. No. 49333, Pg. 16-17
4	Factors influencing car buying decisions in India Arun Kumar Sharma International Journal of Applied Research, 2025, ISSN No. 2277-8179 Vol. 11, UGC Sr. No. 49217, Pg. 11-12
5	A study on impact of digital and traditional advertising channels in shaping consumer preferences for automobiles with special reference to electronic cars Dr. Arun Kumar Sharma IJISAE, 2025 ISSN: 2147 – 6799.
6	Consumer behaviour towards acceptance of image interactivity technology Binal Joshi, Deepankar Roy, Samrat Ray International Journal of Economic Practices and Theories; ISSN: 2247-7225 Volume 2025, Issue 1, Page nos. 501 to 511
Alard School of Health and Biosciences:	
1	ANTI-CARIOGENIC POTENTIALS OF VITEX NEGUNDO LINN Savita Petwal, Madhuri Kaushish Lily, Gulshan Kumar Dhingra, Koushalya Dangwal

J. Mountain Res. P-ISSN: 0974-3030, E-ISSN: 2582-5011 Vol. 15, (2020), 169-179
Alard School of Law: Nil

(C) Research Papers presented in International Conferences (OR published in proceedings):

No.	Research paper details
Alard School of Business Management:	
1	<u>A Study on Impact of Advertising of Cars on Buyer's Decision Process</u> Arun Kumar Sharma 9 th International Conference on Innovations & Challenges in Commerce, Management Economics, Education, Humanities, Applied & Social Sciences (ICCMEEHASS-Virtual 2021)
Alard School of Health and Biosciences:	
1	<u>Evaluation of probiotic properties of lactobacillus pentosus isolated from cow milk</u> Senjaliya DP, George JJ, (2021) 61 st Annual International Conference of The Association of Microbiologists of India (AMI) & Indian Network for Soil Contamination Research (INSCR) in association with The Energy and Resources Institute (TERI), University of Delhi (DU) & Indian Agricultural Research Institute (IARI) (February 3-5, 2021). Abstract book LACTOBACILLUS BULGARICUS 61 Abstract (PMOH007), pp.164
2	<u>Lactobacillus brevis as a potential probiotic carrier in the preparation of fermented Coconut Water and carrot mixed juice Beverage</u> Senjaliya DP, George JJ, (2021) International conference on Biotechnology for sustainable Agriculture, Environment, and Health , Jaipur, Rajasthan, India (April 4-8, 2021).

(D) Research Papers presented in National Conferences (OR published in proceedings):

No.	Research paper details
Alard School of Engineering and Technology:	
1	<u>Climate change impacts on crop water requirement</u> Presented by Dr. Deep Tripathi

	<p>First International Conference on Recent Advances in Engineering and Sciences 2025 (ICRAES – 2K25); Organized by Bharati Vidyapeeth’s College of Engineering, Lavale, Pune On 22 – 23 April 2025</p>
	<p>Alard School of Business Management:</p>
1	<p><u>A Study on Effectiveness of Advertisements of Cars on Generation – Y Buyer’s Evaluation</u> Arun Kumar Sharma National Conference on Emerging Trends in Management and Information Technology KSCON 2022</p>
2	<p><u>Advance Research Technology</u> Arun Kumar Sharma SJITU May 21-22 2022</p>
	<p>Alard School of Health and Biosciences:</p>
1	<p><u>Screening of medicinal plants and their antibacterial potential against oral pathogens</u> Savita Petwal <i>13th State Science Congress (Feb 2019), Uttarakhand State Council for Science & Technology, Dehradun, India.</i></p>
2	<p><u>Poster presentation: Antibacterial potential of Mangifera indica against oral pathogens”International Conference on Medicinal, Aromatic & Neutraceutical Plants,</u> Savita Petwal <i>Graphic Era University & ACMAP, USA (Feb 2019)</i></p>
3	<p><u>Screening of herbal plant and antibacterial activities</u> Savita Petwal National Conference on Ayurvedic Herbal Medicine (Sept 2017), Uttarakhand Ayurvedic University, India.</p>

Annexure 2: Copyrights and Designs Registration Certificates

Copyrights Registration Certificates:





प्रमाणपत्र सं. / Certificate No.:
LD-20250174725

प्रतिलिप्याधिकार कार्यालय, भारत सरकार | Copyright Office, Government Of India
प्रतिलिप्याधिकार प्रमाणपत्र | Copyright Certificate
प्रतिलिप्याधिकार नियम का नियम 70 | Rule 70 of The Copyright Rules
प्रतिलिप्याधिकार रजिस्टर से उद्धरण | Extracts from the Register of Copyrights

आवेदन सं. / Application No.: LD-30941/2025-CO **दाखिल करने की तिथि / Date of Filing:** 02/08/2025

एतद्वारा यह प्रमाणित किया जाता है कि प्रतिलिप्याधिकार अधिनियम, 1957 के प्रावधानों के अनुसार, उपर्युक्त आवेदन में प्रकट किए गए "BRAIN TUMOUR DETECTION USING IMAGE PROCESSING AND MACHINE LEARNING" नामक कार्य के लिए प्रतिलिप्याधिकार प्रदान किया गया है।

This is to certify that a copyright has been registered for the work titled "BRAIN TUMOUR DETECTION USING IMAGE PROCESSING AND MACHINE LEARNING" as disclosed in the below mentioned application in accordance with the provisions of the Copyright Act, 1957.

रचयिता / Authors:	सं. / SNO.	नाम / Name	पता / Address
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2	DR. GOPALKRISHNA D DALVI	ALARD UNIVERSITY, PUNE-	
3	DISHA NAGPURE	ALARD UNIVERSITY, PUNE-	

स्वामी / Owners:	सं. / SNO.	नाम / Name	पता / Address
1	PRACHI V KALE	ARJUN NAGAR, NEAR WATER TANK, RAHATGAON ROAD, AMRAVATI-444603	
2	DR. GOPALKRISHNA D DALVI	ALARD UNIVERSITY, PUNE-	

प्रकाशक विवरण / Publisher Details:	N.A.
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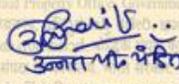
कार्य की भाषा / Language of the Work:	English
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कार्य का विवरण / Description of the Work:	The Brain Tumor Detection Using Image Processing project is designed to harness the power of advanced image processing techniques and machine learning algorithms to facilitate the early detection
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(शर्तें / टिप्पणियाँ, यदि कोई हों) / (Conditions/ Remarks, if any):	N.A.
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आर. ओ. सी. जारी होने की तिथि /
Date of ROC: 29/09/2025



Registrar of Copyrights



प्रमाणपत्र सं. / Certificate No.: LD-20250174831



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प्रतिलिप्याधिकार नियम का नियम 70 | Rule 70 of The Copyright Rules

प्रतिलिप्याधिकार रजिस्टर से उद्धरण | Extracts from the Register of Copyrights

आवेदन सं. / Application No.: LD-33879/2025-CO दाखिल करने की तिथि / Date of Filing: 22/08/2025

एतद्वारा यह प्रमाणित किया जाता है कि प्रतिलिप्याधिकार अधिनियम, 1957 के प्रावधानों के अनुसार, उपर्युक्त आवेदन में प्रकट किए गए "DETECTION OF BRAIN TUMOR BY USING QUANTUM CONVOLUTIONAL PYRAMID FORWARD TAYLOR NETWORKS" नामक कार्य के लिए प्रतिलिप्याधिकार प्रदान किया गया है।

This is to certify that a copyright has been registered for the work titled "DETECTION OF BRAIN TUMOR BY USING QUANTUM CONVOLUTIONAL PYRAMID FORWARD TAYLOR NETWORKS" as disclosed in the below mentioned application in accordance with the provisions of the Copyright Act, 1957.

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| 1 | S. K. PATIL | RESEARCH SCHOLAR, ELECTRONICS AND TELECOMMUNICATION ENGINEERING, ALARD SCHOOL OF INTERDISCIPLINARY RESEARCH, PUNE-411057 |
| 2 | DR. G. D. DALVI | ASSOCIATE PROFESSOR, ELECTRONICS AND TELECOMMUNICATION ENGINEERING, ALARD SCHOOL OF INTERDISCIPLINARY RESEARCH, PUNE-411057 |

प्रकाशक विवरण / Publisher Details:

N.A.

कार्य की भाषा / Language of the Work:

English

Annexure 3: Central Facilities

Following important central facilities are available at AUP.

Instrument Lab:

Sr. No	Instrument/Equipment
1.	Ion Exchanger Divisor
2.	Paper Electrophoresis Unit With Power Supply
3.	Abbe's refractometer
4.	Polarimeter research model
5.	UV Cabinet
6.	Digital Nephelometer
7.	Digital Fluorimeter
8.	Karl Fischer Titration Apparatus
9.	Magnetic Stirrer
10.	Digital conductivity Meter
11.	Digital pH met
12.	Digital Balance (Capacity: 200 gm)
13.	Dissolution Tester
14.	HPLC
15.	FTIR
16.	UV Visible spectrophotometer (Jasco V630)
17.	Air Conditioner
18.	KBR Press
19.	Flame Photometer

Industrial Pharmacy Lab

No.	Item Description
1	Air compressor
4	Ball mill
5	Bottle washing machine
6	Bottle sealing machine
7	Capsule filling machine (2)
8	Digital microscope
9	Digital try dryer
10	Disintegration test apparatus
11	Dissolution test apparatus (6 station)
12	Double cone blender

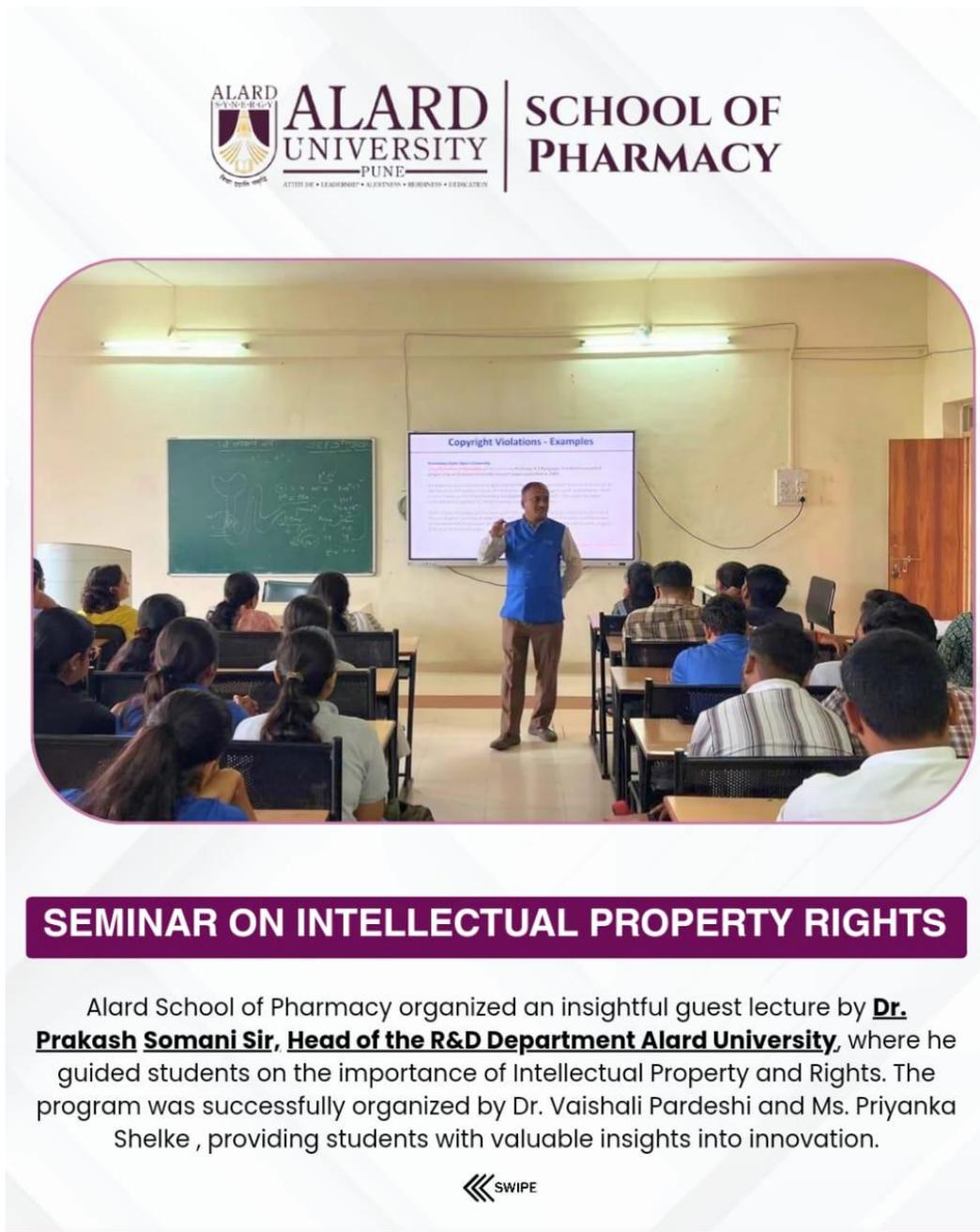
13	Friability test apparatus
14	Hardness Tester
16	Liquid filling machine
17	Ointment filling machine
19	Single punch tablet compression machine (Diploma section Transfer)
20	Tablet coating pan
21	Tablet punching machine (12 stations)
22	Tablet counter (Diploma section Transfer)

School of Business Management

No.	Item Description
1	Well-ventilated classroom with ultra-modern digital board
2	Library with sufficient latest version books, magazines, newspapers and digital library also along with library software
3	Well-equipped computer lab with latest and required software
4	International standard football ground with imported grass
5	Indoor stadium and court for badminton
6	Advance security system for students, staff and faculty members loaded with advanced CCTV camera and surveillance
7	Green landscaped park
8	Proper offices for admin staff
9	First-aid room
10	Board room for group discussion
11	Canteen
12	Separate hostel for boys and girls
13	RO drinking water supply with water coolers
14	Wi-fi campus
15	Genset for uninterrupted power supply
16	Gymnasium facility
17	Health and wellness club
18	Reprographic center
19	World class housekeeping services
20	Career and personal counseling center

Annexure 4: Photographs of the events

- (A) Photographs taken during the guest lecture given by Dr. Prakash R. Somani at Alard School of Pharmacy on 'IPR – Copyrights' on 27/09/2025.





Annexure 5: Student research projects

Alard School of Pharmacy:

(A) M. Pharm (QAT)

Roll No	Name	Project Topic
01	Rushikesh Shivaji Andhale	Development and validation of a rp-hplc method for simultaneous estimation of rabeprazole and ondansetron in bulk and dosage forms using a qbd - approach
02	Saurabh Balkrushna Dere	Analytical method validation as per pharmacopoeia for Budesonide metered dose inhalers (MDI)
03	Krishna Chandrasen Ghadge	Analytical method validation of metered dose inhalers (MDI) formeterol fumerate & budesonide assay test
04	Sarthak Chandrakant Jadhav	DEVELOPMENT AND VALIDATION OF STABILITY INDICATING HPTLC METHOD FOR THE SIMULTANEOUS ESTIMATION OF SALBUTAMOL AND AMBROXOL HYDROCHLORIDE IN BULK AND PHARMACEUTICAL DOSAGE FORM
05	Atharv Kishor Khandalkar	Design, Synthesis, Characterization and Pharmacological Evaluation of Bromodomain inhibitors
06	Shruti Jugalkishor Kshirsagar	DEVELOPMENT OF GREEN HPLC METHOD AND VALIDATION FOR ESTIMATION OF TENELIGLIPTIN IN TABLET DOSAGE FORM
07	Kinjal Dinesh Oswal	Analytical method validation of Salbutamol metered dose inhalers (MDI)
08	Nikita Shashikant Navasare	Development and validation of stability indicating hptlc method for minoxidil in bulk and pharmaceutical tablet dosage form
09	Meenal Sambhaji Patil	Development and validation of stability indicating high performance thin layer chromatography method for the estimation of bifonazole in bulk and pharmaceutical dosage form
10	Rajshree Ravindra Patil	Design, Synthesis, Characterization and Pharmacological Evaluation of Some heterocyclic compounds

11	Puja Onkar Katre	Analytical method validation of Fluticasone Propionate metered dose inhalers (MDI)
12	Anwar Liyakat Shaikh	Design, Synthesis, Characterization and Pharmacological Evaluation of Pyrimidine Derivatives
13	Vedant Kamlakar Shaligram	Development and Validation of Stability-indicating RP-HPLC method for the simultaneous estimation of Metadoxine and Silymarin in Bulk and pharmaceutical tablet dosage form
14	Poonam Rajendra Shewale	Development and validation of stability-indicating reverse phase-High performance liquid chromatography method for estimation of Naphazoline HCl in Bulk and Pharmaceutical Dosage form
15	Kirtikumari Dineshkumar Yadav	Development and validation of stability indicating high performance thin layer chromatography method for the estimation of varenicline in bulk and pharmaceutical dosage form

(B) M. Pharm (Pharmaceutics):

Roll No	Name	Project Topic
01	Preksha Bongirwar	Formulation and evaluation of perphenazine loaded smedds incorporated into transdermal patches
02	Pundalik Tukaram Chandgude	Formulation and Evaluation of Epalrestat Loaded Self-Nano Emulsifying Drug Delivery System (SNEDDS).)
03	Pooja Choudhary	Formulation and evaluation of Epicatechin loaded microsphere
04	Aakanksha Arun Gaikwad	Development and Characterization of Chlorzoxazone Loaded Nanosponges for Oral Sustained release
05	Siddhi santosh Parshette	Formulation and characterization of allopurinol loaded niosomes
06	Kalyani Pathak	Formulation and Evaluation of Mucoadhesive Buccal Films of Berberine HCL for the treatment of Type 2 Diabetes Mellitus.
07	Sakshi Atul Purwar	Formulation and evaluation of resveratrol loaded microsponges
09	Chaitali Ghumre	Development and Characterisation of Rivaroxaban Nanoemulsion

10	Sanket Sanjay Raut	Development and evaluation of phytosomes of resveratrol
11	Tejal Bajrang Shitole	Formulation and Evaluation of Azathioprine Self-Nano Emulsifying Drug Delivery System
12	Sudarshan Bramhadev Yadav	Formulation and evaluation of bifonazole loaded microsponges cream

Annexure 6: Research internships

Sr.no	Department	Number of students	Name of Industry	Date of internship
1	Quality Assurance techniques	10	Haffkine BioPharmaceutical	01/08/2025-02/09/2025
2	Quality Assurance techniques	5	Rajaswa Pharmaceutical Pvt Ltd	4/08/2025-05/09/2025
3	Pharmaceutics	4	Haffkine BioPharmaceutical corporation Ltd	01/08/2025-02/09/2025