

ADITYA PHARMACY COLLEGE

(Formerly known as Aditya Institute of Pharmaceutical Sciences & Research)

(An AUTONOMOUS Institution)

• Approved by PCI, New Delhi • Accredited by NAAC "A" Grade

• Permanently Affiliated to JNTUK, Kakinada

Aditya Nagar, ADB Road, Surampalem – 533437, Kakinada Dist., A.P., INDIA.



Ph: 98665 76663

E-mail: office@adityapharmacy.edu.in

Web: www.adityapharmacy.edu.in

7.2.1 BEST PRACTICES

SUCCESSFULLY IMPLEMENTED BY THE INSTITUTION

DURING THE ACADEMIC YEAR OF 2024-2025

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BEST PRACTICES-I

Title of the Best Practice:

"Best Library Utilization Awards: Enhancing Academic Excellence through Library Engagement"

Libraries are the heart of academic institutions, serving as a **repository of knowledge** that fuels intellectual development. However, in an age dominated by **digital distractions and instant access to information**, students often overlook the **value of structured learning and research** facilitated by libraries.

The "**Best Library Utilization Awards**" initiative at Aditya Pharmacy College (A) aims to **revitalize the role of libraries** in student learning by actively encouraging and recognizing students who make the best use of library resources. Through **a structured reward system, digital literacy training, and engaging competitions**, this practice fosters a **culture of reading, research, and academic excellence**.

Objectives of the Practice

The primary aim of this initiative is to **enhance students' academic performance and research skills** by promoting effective utilization of the library. The specific objectives include:

1. Encouraging a Culture of Reading & Research

- Promote a habit of **regular reading and academic exploration** beyond classroom learning.
- Motivate students to refer to **standard textbooks, research journals, and evidence-based resources** for enhanced subject understanding.

2. Optimizing the Use of Library Resources

- Ensure students maximize the use of **physical and digital library resources**, including books, journals, databases, and e-learning platforms.
- Increase familiarity with **digital academic tools** such as **Delnet, Knimbus, and Micromedex** for literature searches, case studies, and drug information retrieval.

3. Enhancing Digital Literacy & Research Skills

- Train students in **modern research methodologies** and **effective literature review techniques**.



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- Provide workshops and hands-on experience with **scientific databases, reference management tools, and scholarly communication.**

4. Boosting Academic Performance & Self-Learning

- Equip students with the **skills necessary to become independent learners** who can critically analyze and interpret academic content.
- Improve students' **research and writing skills**, ultimately benefiting their **projects, dissertations, and future academic pursuits.**

5. Recognizing and Rewarding Active Library Users

- Establish an appreciation system to **motivate consistent library users.**
- Introduce awards for **outstanding engagement** with library services, encouraging long-term participation.

The Context

Challenges Identified Before Implementation

Prior to the launch of the **Best Library Utilization Awards**, several challenges were noted:

- **Declining Library Footfall:** Many students preferred online sources over structured academic reading, leading to a decline in library visits.
- **Lack of Awareness About Digital Library Tools:** Though the college subscribed to **premium databases**, a significant portion of students were unaware of their functionalities.
- **Over-Reliance on Internet-Based Learning:** While the internet offers vast information, **quality and authenticity** are often questionable. The need to promote **peer-reviewed, evidence-based resources** was evident.
- **Need for Research Skill Development:** Many students lacked training in **scientific literature review, citation practices, and academic writing**, which are crucial for **higher education and research careers.**



Recognizing these gaps, the institution launched a **structured, student-centric initiative** to maximize library engagement and integrate **traditional and digital learning methodologies**.

The Practice

The implementation of **Best Library Utilization Awards** follows a **multi-faceted approach**, ensuring students actively engage with the library in an **academically enriching manner**.

Encouraging Physical Library Utilization

- **Student Attendance Monitoring:**
 - A digital entry system records **daily visits** to track consistent library users.
 - Monthly reports are analyzed to determine students **frequently utilizing resources**.
- **Structured Borrowing System:**
 - Library records track **books borrowed, journal access, and reference requests**.
 - Data is used to assess students' **reading habits and academic engagement**.

Promoting Digital Library Utilization

- **Training Sessions on Digital Platforms:**
 - Regular workshops on **Delnet, Knimbus, and Micromedex** help students learn how to **search scholarly articles, review case studies, and analyze drug information**.
- **Hands-on Digital Library Practice:**
 - Assignments requiring students to **retrieve, interpret, and cite** data from digital sources are incorporated into coursework.
- **E-Resources & Remote Access:**
 - Students are granted **off-campus access** to digital resources to encourage **anytime learning**.

Organizing Library-Based Competitions & Events

To make library visits **interactive and enjoyable**, several **competitions and academic activities** are conducted:



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1. **Library Quiz:** Tests students' knowledge on books, authors, journals, and digital databases.
2. **Book Review Contests:** Encourages analytical thinking and writing skills.
3. **Reading Challenge:** Recognizes students who complete the highest number of academic readings.
4. **E-Resource Navigation Challenge:** Encourages proficiency in using digital library platforms.

Award & Recognition System

Library Awareness & Orientation Programs

- **Library Induction Programs for New Students.**

Evidence of Success

Key Achievements since Implementation

- **40% increase in library attendance** over the last academic year.
- **Greater student participation** in academic research and presentations.
- **Improved academic performance**, particularly in subjects requiring extensive reading.
- **Enhanced digital literacy and research skills**, preparing students for higher studies.
- **Positive student feedback**, emphasizing the **value of structured academic reading**.

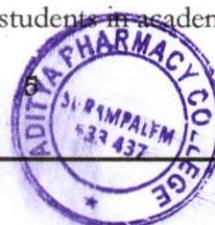
Problems Encountered and Resources Required

Challenges

- **Initial resistance from students**, who preferred internet-based learning over structured library visits.
- **Need for continuous digital literacy training** to ensure effective use of advanced databases.
- **Space & infrastructure constraints**, requiring future expansion of library seating and resources.

Resource Requirements

- Expansion of **library subscriptions & digital database access**.
- Upgrading **computer systems, and digital library software**.
- **Appointment of research mentors** to assist students in academic writing and literature review.



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Academic Year 2024–2025 – Academic and Library Engagement Report

1. Monthly and Annual Student Attendance

Month	Average Attendance (%)
June 2024	92.4%
July 2024	93.1%
August 2024	91.8%
September 2024	90.6%
October 2024	89.9%
November 2024	91.5%
December 2024	90.3%
January 2025	91.7%
February 2025	92.6%
March 2025	93.3%
April 2025	94.0%
May 2025	91.9%

Annual Average Attendance: 91.9%

2. Percentage of Students Visiting the Library (Monthly)

Month	% of Students Visiting Library Regularly
June 2024	58%
July 2024	61%
August 2024	64%
September 2024	63%
October 2024	60%
November 2024	66%
December 2024	62%
January 2025	65%
February 2025	67%
March 2025	70%
April 2025	72%
May 2025	69%

Annual Average Library Visit Percentage: 64.9%

3. Number of Books Borrowed per Semester

Semester	Total Books Borrowed	Avg. Books per Student
Odd Semester (Jun–Nov)	2,460 books	3.8 books/student
Even Semester (Dec–May)	2,775 books	4.3 books/student

Total Books Borrowed Annually: 5,235 books



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4. Most Borrowed Book Categories (Top 5)

Rank	Category	% of Total Borrowings
1	Pharmacology	26%
2	Clinical Pharmacy	22%
3	Pharmaceutics	18%
4	Pharmaceutical Chemistry	15%
5	Biotechnology & Microbiology	9%

5. Number of Searches Conducted on DELNET

Semester	Number of DELNET Searches
Odd Semester	1,125
Even Semester	1,395

Total DELNET Searches in 2024-25: 2,520

6. Total Number of Hours Spent on Digital Library Platforms

Platform Name	Total Hours Logged
NPTEL	1,080 hours
e-ShodhSindhu	670 hours
National Digital Library	1,215 hours
SWAYAM	930 hours

Cumulative Hours on Digital Platforms: 3,895 hours

The Importance of Library & Reading Habits

A well-utilized library cultivates:

- Stronger academic foundations through verified resources.
- Better research and critical thinking skills.
- A habit of continuous learning, essential for success in pharmacy and healthcare.

The **Best Library Utilization Awards** at Aditya Pharmacy College (A) reinforce **academic discipline, research proficiency, and a lifelong learning mind-set**, equipping students with **essential skills for future success**.



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Congratulations!



Best Library user Award - Student 2024

B.S.N.V.PRATYUSHA

Student

Roll No. : 213G1R0069

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Congratulations!



Best Library user Award - Faculty 2024

M. Sarika

(Asst. Professor)

EM.Id: 5412

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Students Participating in Dr. B. R. Ambedkar Birthday Celebrations organized by the Department of Library, Aditya Pharmacy College (A), Surampalem.



Students Participating in National Science Day Celebrations on 28 February, 2025 organized by the Department of Library, Aditya Pharmacy College (A), Surampalem.



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BEST PRACTICES-II

Title of the Practice:

Pharmacy Practice-Based Learning through Clinical Collaborations with Trust Multispeciality Hospitals, Kakinada

Objectives of the Practice:

The key objective of this practice is to enhance experiential learning for Pharm. D students through real-time, hospital-based training that strengthens their clinical knowledge, patient-centric communication skills, and therapeutic decision-making abilities. The collaborative program between Aditya Pharmacy College (A), Surampalem and Trust Multispeciality Hospitals, Kakinada aims to:

- Bridge the gap between theoretical knowledge and clinical application.
- Enhance student competency in patient counseling, medication safety, and rational drug use.
- Train students in real-time identification of Adverse Drug Reactions (ADRs) and potential Drug-Drug Interactions (DDIs).
- Provide experiential exposure to medical audits and documentation.
- Prepare students to meet the professional demands of clinical, hospital, and community pharmacy roles.

The Context

Pharmacy education in India has evolved beyond conventional classroom learning to integrate more clinical and healthcare-based modules. Aditya Pharmacy College (A), Surampalem has recognized the growing importance of practice-based learning, particularly for Pharm. D students. The collaboration with Trust Multispeciality Hospitals, Kakinada has enabled structured practice-based learning activities that are patient-centered, evidence-driven, and outcome-focused.

Students are placed at various units within the hospital such as the Drug Information Center (DIC), OP Pharmacy, In-patient Wards, ICU, and Diagnostic Departments. This exposure aligns with national and international guidelines of competency-based pharmacy education and boosts employability in healthcare and clinical sectors.

The Practice:

The key components of the practice-based learning include:



a. Medical Audits:

Students are involved in reviewing patient case files and prescriptions to analyze compliance with Standard Treatment Guidelines (STGs), rational drug use, and cost-effective prescribing. These audits are supervised by clinical pharmacists and hospital preceptors. The audits focus on:

- Antibiotic stewardship programs.
- Prescription patterns and completeness.
- Polypharmacy and high-alert drug usage.

b. Patient Counseling at Drug Information Center (DIC):

Students are posted at the DIC where they interact directly with patients under supervision. Counseling includes:

- Medication usage, dosage, and precautions.
- Lifestyle modifications and adherence strategies.
- Preventive health education and disease awareness.
- Educating patients about adverse effects and warning signs.

On average, over **850 patients** were counseled during the academic year **2024-2025**.

c. Medication History Interviews (MHIs) at Bedside:

Students are trained to collect medication history from patients admitted to IP wards. These interviews include:

- Current and past medication records.
- Allergies, compliance issues, and self-medication habits.
- OTC drug use and herbal medication details.

Through MHIs, students learn to identify discrepancies, ensure reconciliation, and document findings that assist in clinical decision-making.

d. ADR Monitoring and Reporting:

Students are guided to identify, document, and report suspected Adverse Drug Reactions as part of Pharmacovigilance programs. This includes:

- Causality assessment using WHO and Naranjo scales.

- Timely reporting to ADR Monitoring Centers (AMCs).
- Sensitization of hospital staff and patients regarding ADRs.

A total of **2 ADRs** were documented and reported during the academic year **2024-2025**.

e. Drug-Drug Interaction (DDI) Monitoring:

Using clinical tools and manual evaluation, students assess case sheets and prescriptions for potential drug interactions. Findings are:

- Documented and communicated to clinical pharmacists.
- Cross-verified using tools like Micromedex, Lexicomp and Medscape Interaction Checker.
- Escalated to prescribers when clinically significant.

In **2024-25**, students identified **128 clinically relevant DDIs**, helping prevent possible therapeutic failures and adverse outcomes.

f. Antimicrobial Stewardship Program (AMSP):

As a vital component of clinical pharmacy practice, Pharm. D interns actively participate in the **Antimicrobial Stewardship Program (AMSP)** at Trust Multispeciality Hospitals. The program is designed to promote the **rational use of antibiotics**, minimize antimicrobial resistance (AMR), and improve clinical outcomes for patients.

Under the guidance of hospital infection control and clinical pharmacist teams, interns engage in:

- **Daily monitoring of antimicrobial prescriptions** in IP and ICU wards.
- Evaluating **antibiotic indications, spectrum, dose, duration, and de-escalation strategies**.
- **Identifying irrational antimicrobial usage** and providing evidence-based alternatives.
- Educating prescribers and nursing staff on **hospital antibiotic policy and AMR trends**.
- Conducting **awareness sessions for patients and caregivers** on the importance of completing antibiotic courses and avoiding self-medication.

During the academic year **2024-2025**, the Pharm. D interns contributed to the review of over **620 antibiotic prescriptions**, with **recommendations made for optimization in nearly 110 cases**. Their proactive involvement has supported better infection control practices and helped reduce empirical broad-spectrum antibiotic usage.



This participation not only enhances the clinical judgment of students but also sensitizes them to one of the most pressing global healthcare concerns—**antimicrobial resistance (AMR)**. Their exposure to AMSP initiatives further strengthens their readiness for roles in **hospital clinical pharmacy services, infectious disease management, and pharmacovigilance sectors**.

Evidence of Success:

The outcomes of the practice-based learning model have shown tremendous impact on both student skill development and patient care quality. Key achievements include:

- **Clinical Skill Development:** Students gain confidence in communication, decision-making, and documentation.
- **Job-Readiness:** Approximately **75% of final-year students** received pre-placement interview invitations from clinical research organizations, hospitals, and pharmaceutical companies.
- **Enhanced Patient Education:** With structured patient counseling, patient understanding and compliance improved significantly, as reflected in hospital feedback mechanisms.
- **Research Publications:** Students were able to convert clinical findings into **around 9 Case Report Publications and 8 poster presentations** at regional conferences.
- **Increased Reporting Compliance:** ADR and DDI documentation contributed to the hospital's internal audits and NABH compliance reports.
- As a testimony to the effectiveness of this practice-based learning initiative, **two Pharm. D students from the 2018–2024 batch have been successfully recruited by Trust Multispeciality Hospitals as Clinical Pharmacologists in August 2025**, recognizing their enhanced clinical acumen, patient-handling skills, and contribution to hospital-based pharmacy services.



Student Involvement and Learning Outcomes:

Activity	No. of Students Involved (IV to VI Pharm. D)	Learning Outcomes
Medical Audits	70	STG awareness, prescription analysis
Patient Counseling	46	Therapeutic communication, empathy, health literacy promotion
MHIs	68	Medication reconciliation, clinical interviewing skills
ADR Reporting	46	Pharmacovigilance, critical evaluation
DDI Screening	55	Drug interaction interpretation and clinical documentation

Students were also involved in case presentation discussions, interactive bedside sessions with consultants, and inter-professional collaborations with nursing and medical staff.

Problems Encountered and Resources Required:

While the practice has been successful, some challenges encountered included:

- **Language Barriers:** Some patients from rural backgrounds faced difficulties in understanding the counseling provided in English. However, students have now adopted bilingual counseling techniques.
- **Documentation Fatigue:** Students initially struggled with the volume of documentation, but orientation and templates simplified the process.
- **Limited Digital Tools:** There is a need for advanced clinical decision support tools and mobile DDI checker apps within the hospital system.

The institution plans to provide refresher training sessions for effective usage.

Future Plans:

To further enhance this best practice, the college plans to:

- Establish a **Clinical Skills Simulation Lab**.
- Initiate a **Case Study Publication Series**.
- Collaborate with regional AMCs for more training sessions.
- Promote **Interdisciplinary Projects** with nursing and physiotherapy students.
- Launch a **Digital Patient Counseling Repository** as an e-learning resource.



Impact on Student Career Development:

The practice-based learning approach has significantly improved student confidence, employability, and career readiness. Several Pharm. D interns have reported better performance in clinical job interviews owing to their hands-on exposure.

Feedback from alumni indicates that these early clinical experiences played a pivotal role in shaping their professional success in hospitals, clinical trials, regulatory affairs, and medical writing.

Conclusion:

The collaboration between Aditya Pharmacy College (A), Surampalem and Trust Multispeciality Hospitals, Kakinada stands as a model for pharmacy practice-based learning in academic institutions. The structured activities, real-time application, and consistent mentoring have resulted in enriched learning experiences that not only benefit students but also contribute meaningfully to patient care and healthcare system strengthening.



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