



**Gyanmanjari®**  
Innovative University



**TRINER'S OF GMIU**

**DEPARTMENT  
OF PHARMACY**



# Industry Visit

- **Production processes :**  
Details on different stages of drug manufacturing like formulation, filling, packaging, and sterilization.
- **Quality assurance practices :**  
Understanding the quality control measures implemented throughout the production process to ensure drug safety and efficacy.
- **Research and development activities :**  
Insights into ongoing research projects, drug discovery methods, and clinical trials. Regulatory compliance: Awareness of the regulatory framework that pharmaceutical companies must adhere to.
- **Technology and equipment :**  
Familiarization with advanced technologies used in drug manufacturing. Market trends and challenges: Understanding the current market dynamics and challenges faced by the pharmaceutical industry.  
Depending on the visitor's background, the motive of the visit could be :
  - **For students :** To gain practical exposure to the pharmaceutical industry as part of their academic curriculum.
  - **For healthcare professionals :** To stay updated on the latest drug developments and their clinical applications.
  - **For industry professionals :** To explore potential partnerships, identify new technologies, or assess the quality standards of a potential supplier.



## Expert Talk

Under the Student Start-up Innovation Policy (SSIP 2.0) of Government of Gujarat GMPC hosted an expert talk event on 21 December 2024 (Saturday). It was a day (3 hours) session conducted and delivered a talk on seaweed farming and various innovation practices. Seaweed, often overlooked in comparison to its terrestrial counterparts, harbors immense potential for innovation and sustainability in various industries. As we stand at the cusp of environmental challenges and burgeoning global populations, the exploration of seaweed farming emerges as a beacon of hope, offering a promising avenue towards a sustainable tomorrow. In this comprehensive discourse, we delve into the burgeoning field of innovation in seaweed farming, exploring its multifaceted dimensions, ecological significance, economic viability, and the transformative impact it promises to deliver on a global scale. Also give the Information about the Instrument which is used in the soil sciences and give the information about the Analytical instrument.



The purpose of a Expert Talk is currently focuses on and Give the Knowledge about the diverse and highly applied research areas such as salt and marine chemicals, water desalination and purification, membrane based processes for separation & concentration, inorganic materials and catalysis, fine & speciality chemicals including sensing and diagnostics molecules, renewable energy, plant molecular biology & biotechnology with emphasis on seaweeds & salinity tolerance and waste management with a thrust on value recovery and environmental Impact assessment.



# Hands on Workshop

Major challenges in animal experimentation are development and identification of an appropriate animal model, ethical issues in animal handling, methods to standardize and validate animal model and thereby translation of the animal research to human practice. This workshop intends to address these growing issues as part of plenary lectures in the pre-lunch session. In this workshop, practical training would be imparted for stereotaxic surgical models and pylorus ligation. The workshop would also provide hands-on training of instruments like Enzyme Linked Immunosorbent Assay (ELISA) plate reader and washer, PCR, Grip Strength Meter, Any Maze, etc. The workshop will be conducted by the eminent resource person who is master trainer and the faculty members of Institute of Pharmacy. Expert talk on drug evaluation techniques.

- Practical training on surgical process in experimental animals.
- Hands on training of various instruments like ELISA plate reader and washer, PCR, Grip Strength Meter and Any Maze.

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## Aptitude Test / Logical Reasoning Test



The Aptitude, Logical Reasoning, IQ, and EQ tests conducted for pharmacy students are designed to evaluate a broad spectrum of skills necessary for their academic and professional journey. The tests will focus on assessing critical thinking, pattern recognition, logical deduction, problem-solving ability, and emotional maturity—all of which are vital for pharmacists. In the healthcare industry, pharmacists are often faced with challenging situations that require swift and sound decision-making. This event will help students understand how well they are prepared to handle such situations, both from a cognitive and emotional standpoint.

The event will be divided into multiple sections, with students first completing a series of logical reasoning problems to test their problemsolving ability and analytical thinking. Following this, participants will take an IQ test to evaluate their intellectual capacity, followed by an EQ assessment to measure emotional intelligence, which is crucial in handling interpersonal interactions with patients and healthcare teams. Afterward, experts will provide feedback on individual performances, offering valuable insights into their strengths and potential areas for improvement.



# Event Participation

The Maker Fest in Vadodara is an exciting annual event that brings together creators, innovators, and makers from various fields, including technology, engineering, healthcare, and more. For pharmacy students, participation in Maker Fest offers a unique opportunity to engage with the broader innovation ecosystem while showcasing their skills, creativity, and knowledge in the pharmaceutical domain.

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## Key Highlights for Pharmacy Students :

- 1. **Innovation and Creativity** : Pharmacy students can participate by presenting innovative projects related to pharmaceutical technology, drug delivery systems, or healthcare solutions. This platform allows them to demonstrate their creativity and apply their academic knowledge to real-world challenges.
- 2. **Exposure to New Technologies** : Maker Fest features a wide range of tech-driven innovations. Pharmacy students can learn about the latest developments in digital health, biotech, pharmaceutical research, and medical devices, staying updated on emerging technologies that may impact the pharmaceutical industry.
- 3. **Hands-on Workshops** : Students can engage in hands-on workshops on various topics, such as 3D printing for drug delivery, pharmaceutical robotics, or wearable health tech. These workshops offer practical knowledge that can be directly applied to their studies or future careers.
- 4. **Networking Opportunities** : Maker Fest attracts a diverse group of innovators, including engineers, researchers, entrepreneurs, and professionals from the healthcare sector. Pharmacy students can network with these individuals, opening doors to potential collaborations, internships, and job opportunities.
- 5. **Interdisciplinary Collaboration** : The event encourages collaboration across disciplines. Pharmacy students can collaborate with engineers, designers, and entrepreneurs to work on healthcare-related projects, expanding their skill set and learning from other fields.
- 6. **Showcase of Research and Development** : Pharmacy students can use the event to showcase their research projects, pharmaceutical innovations, or health-related solutions, gaining valuable feedback and recognition from peers, mentors, and industry professionals.



# Flipped Class

The objective of this flipped classroom approach for the topic "Herbal Excipients" in Herbal Drug Technology is to provide pharmacy students with a comprehensive understanding of the role and selection of excipients in herbal formulations. It will explore the significance of herbal excipients in drug delivery, their therapeutic effects, and the necessary considerations for their use in herbal drug products.

Herbal excipients play a critical role in the preparation, stability, and delivery of herbal medicines. These excipients are not only inert substances used to aid in the formulation of herbal drugs but can also influence the bioavailability, efficacy, and safety of the final product. Therefore, pharmacy students need to be proficient in selecting appropriate excipients for various herbal formulations such as tablets, capsules, creams, ointments, and tinctures.

## Provide a video explaining :

- The definition and role of excipients in pharmaceutical formulations.
- Types of excipients: binders, fillers, disintegrate lubricants, preservatives, and stabilizers.
- Importance of herbal excipients: how they differ from synthetic excipients, their sources, and their specific uses in herbal drug formulations.

The flipped classroom model for Herbal Excipients in Herbal Drug Technology empowers pharmacy students to actively engage in their learning. By providing them with foundational knowledge through preclass preparation and giving them the opportunity to apply it in practical, hands-on activities, students gain a deeper understanding of the role and selection of excipients in herbal formulations. This approach enhances critical thinking and prepares students for the complexities of working with herbal drugs in their future pharmacy careers.





## Group Discussion

The "Pharmacy Scope and Future Opportunities" group discussion aimed to provide a platform for students, educators, and industry professionals to deliberate on the expanding role of pharmacists in contemporary healthcare. The session began with a discussion on the evolving role of clinical pharmacists in hospitals, emphasizing the growing demand for collaborative practices with healthcare teams, patient safety, and therapeutic optimization and explored how the pharmaceutical industry is moving towards personalized medicine, emphasizing advancements in pharmacogenomics and how these will impact drug development.



There was also a focus on the emerging field of pharmacogenomics, with experts explaining how advancements in genetics are shaping drug therapy and offering personalized treatment options for patients. Additionally, the session covered telepharmacy, a field that has gained momentum due to its ability to provide pharmacy services remotely, particularly to underserved or rural areas.

The event also included a discussion on the technological advances in pharmacy, including pharmacy informatics, which is helping pharmacists optimize medication management and improve patient outcomes through data analysis and technology integration. The session concluded with a group activity that allowed participants to network and exchange ideas on how they can actively shape the future of pharmacy practice.

## Guidance for Higher & Overseas Study



The "Guidance for Higher & Overseas Study for Students" event aims to provide comprehensive information and practical advice for students considering further education abroad. It is an invaluable opportunity for high school and undergraduate students who are planning to pursue higher education overseas, as well as those seeking guidance on scholarship opportunities, visa processes, and the overall study-abroad experience.

The event typically features a series of expert-led presentations, interactive discussions, and Q&A sessions. Representatives from renowned universities and educational consultants often participate, providing insights into university admission requirements, courses, and the benefits of studying in different countries. Students and parents can directly engage with these experts, asking questions about specific programs, application processes, and living abroad.

In addition to academic advice, the event also focuses on practical aspects such as budgeting, accommodation, cultural adaptation, and balancing academic responsibilities with social life in foreign environments. Students are encouraged to attend workshops on writing personal statements, preparing for standardized tests, and improving language proficiency.

Overall, the event is designed to empower students by equipping them with the knowledge and resources they need to make informed decisions about their higher education journey. Whether exploring traditional degree options or more unique international study pathways, this event serves as a valuable first step for students looking to broaden their horizons globally.



## LinkedIn Profile

### 1. Build Your Professional Network Early

- Networking is one of the most valuable benefits of LinkedIn. As a student, you can start building a network of professors, alumni, peers, industry professionals, and potential employers. This early network can provide advice, mentorship, and even job opportunities in the future.

### 2. Showcase Your Skills and Talents

- Even if you don't have much work experience, LinkedIn allows you to highlight your skills, coursework, projects, and extracurricular activities. You can showcase your expertise and areas of interest, making it easier for others to see your potential.

### 3. Attract Potential Employers and Internships

- Many recruiters use LinkedIn to search for students or recent graduates for internships, part-time jobs, or entry-level positions. By creating a well-curated profile, you can increase your chances of being noticed by employers who are looking for fresh talent.

### 4. Track and Highlight Academic Achievements

- You can list academic awards, certifications, and special projects on your LinkedIn profile. This provides a credible, professional space to showcase what you've accomplished academically. It's a good way to demonstrate that you're proactive and engaged in your field of study.

### 5. Discover Industry Insights and Opportunities

- By following companies, organizations, and industry influencers on LinkedIn, you can stay updated on job postings, trends, news, and research opportunities in your field. This knowledge helps you stay ahead and prepares you for career opportunities after graduation.

### 6. Develop Your Personal Brand

- Your LinkedIn profile can act as a personal branding tool, where you define your professional identity. As a student, this gives you a head start in building a professional reputation and distinguishing yourself in your field. It shows you are serious about your career and growth.



## 7. Learn and Engage with Industry Professionals

- LinkedIn provides a platform for you to engage with professionals in your field. You can comment on posts, join discussions, ask questions, or even reach out to industry experts for advice or mentorship.

## 8. Professional Development and Soft Skills

- Building a LinkedIn profile requires you to reflect on your skills, goals, and achievements, which help you, gain a deeper understanding of your strengths and areas for growth. This reflection is crucial for professional development.

## 9. Easily Share Your Resume and Portfolio

- Your LinkedIn profile acts as a dynamic digital resume. You can link to your portfolio, share academic projects, or provide links to personal blogs or websites. It's a centralized hub that potential employers or collaborators can easily access to see your work.

## 10. Stay Ahead of Competitors

- As you near graduation, employers will often search LinkedIn profiles to identify and evaluate potential candidates. Having an active and polished LinkedIn profile early gives you a competitive edge over others who might wait until graduation to create one.



# Personality Grooming Report

The "Personality Grooming for Pharmacy Students" event is designed to enhance the personal and professional development of pharmacy students, preparing them for success in their careers. The event focuses on building soft skills, refining communication abilities, and fostering leadership qualities, all of which are essential for thriving in the dynamic healthcare and pharmaceutical fields.

Throughout the event, students will engage in interactive sessions aimed at improving essential aspects of personal development. Topics will include effective communication, body language, professional etiquette, and stress management. Students will participate in practical activities, such as mock interviews, group discussions, and confidencebuilding exercises, to better prepare them for real-world scenarios they will encounter in the workplace.

Key areas of focus will be on improving public speaking skills, developing a positive attitude, managing professional relationships, and creating a personal brand. The event will also cover how to make a lasting impression during job interviews and internships, which are crucial in securing opportunities in the competitive pharmacy industry.

Additionally, students will gain insights into stress management techniques, helping them stay composed and focused in high-pressure situations, which are common in the fast-paced world of healthcare. By the end of the event, pharmacy students will have the tools and knowledge necessary to present themselves confidently, communicate effectively, and navigate their careers with professionalism and poise.

## Practical Skill Proficiency

**Analytical skills :** Pharmacists need to evaluate a patient's medical history and condition to ensure they receive the best treatment. They also need to be analytical when a patient has issues with their treatment.

**Communication skills :** Pharmacists need to be able to communicate effectively with patients and colleagues.

**Attention to detail :** Pharmacists need to be accurate and detail-oriented when filling and checking prescriptions, calculating doses, and recalling information about drug therapy.

**Teamwork :** Pharmacists and pharmacy assistants need to be able to work well with others to prepare and deliver the right medications to patients.

**Problem-solving and critical thinking :** Pharmacists need to be able to solve problems and think critically.

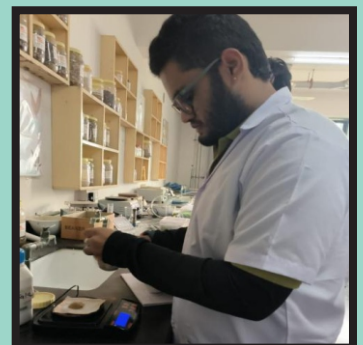
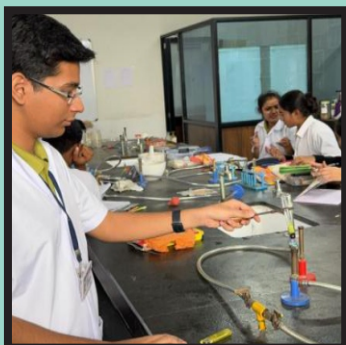
**Compassion :** Pharmacists need to be compassionate.

**Stress management and resilience :** Pharmacists need to be able to manage stress and be resilient.

**Cultural competence and diversity awareness :** Pharmacists need to be culturally competent and aware of diversity.

### Important Qualities :

- Analytical skills. Pharmacists must evaluate the contents and side effects of prescribed medication to ensure that the patient may safely take it.
- Communication skills.
- Interpersonal skills.
- Compassion.
- Managerial skills.
- Detail oriented.



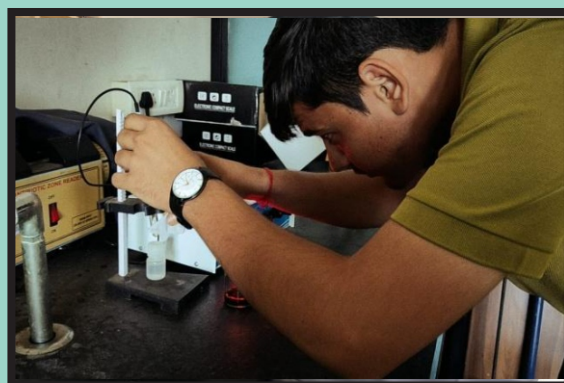


# Pre- Placement Talk

The Pre-Placement Talk for students is designed to inform and guide students about potential career opportunities in the pharmaceutical industry, including roles in drug manufacturing, quality control, regulatory affairs, research and development (R&D), and marketing. The event is led by industry professionals who provide an in-depth understanding of the current trends in the pharmaceutical field, including advancements in biotechnology and pharmaceuticals. Students also learn about the necessary qualifications and skills required to succeed in the pharmaceutical industry, such as knowledge of Good Manufacturing Practices (GMP), clinical trial regulations, and pharmacovigilance. The Pre-Placement Talk is tailored to help students understand the various career paths available to them in the pharmaceutical industry. The main objective is to provide them with firsthand insights into the roles and responsibilities that come with working in pharmaceutical companies, healthcare institutions, regulatory agencies, or research organizations. The event aims to bridge the gap between theoretical learning and real-world application, offering students the opportunity to interact with industry professionals who can provide valuable guidance as they transition from academics to the workforce.

# Project Base Learning

Project-Based Learning (PBL) for pharmacy students is an innovative and dynamic educational approach designed to engage students in solving real-world problems through collaborative projects. This method shifts the learning focus from traditional lecture-based instruction to a more hands-on, interactive experience. In a PBL setting, students work in teams to tackle complex, multifaceted problems related to pharmacy practice, such as drug formulation, patient care, pharmaceutical research, or public health issues.



The event typically involves students being presented with a specific, real-world problem or project. For example, they might be tasked with developing a comprehensive medication therapy management plan for a patient with multiple chronic conditions or researching the latest developments in drug delivery systems. The students are expected to conduct in-depth research, collaborate with peers, analyze data, and propose solutions based on their findings.

Throughout the project, students are encouraged to apply their knowledge from various subjects such as pharmacology, pharmaceuticals, Herbal Drug Technology, and ethics, and integrate them into a cohesive solution. Additionally, the project requires communication and teamwork, simulating the interdisciplinary collaboration that takes place in actual pharmacy practice.



By participating in PBL, students not only gain a deeper understanding of the subject matter but also enhance essential skills such as critical thinking, problem-solving, communication, and project management. Ultimately, the goal is to prepare pharmacy students for real-world challenges and ensure they are well-equipped to succeed in their future careers.

# Resume Building

A Resume's motivation is the drive and willingness of the job seeker to go the extra mile in their professional life. It is conveyed through the use of the word "motivated" and other relevant skills and experiences. It shows that you are ambitious and ready to take on challenges. It demonstrates your commitment to achieving professional goals. It helps you stand out from other applicants. Use relevant skills: Highlight your relevant skills and experience. Use a resume objective: Write a resume objective that explains how your skills and talents align with the job requirements. Use a motivation letter: Express your interest in the position and explain why you are a good fit. Use quantifiable details: Quantify key details from your experience to help recruiters quickly understand your qualifications. A resume is a brief, concise document that presents you to the prospective employer. The resume markets your skills, accomplishments and experiences for employment, admission to graduate school, and consideration for a scholarship or fellowship.

# Software Skill Proficiency

In today's digital age, pharmacy students must acquire proficiency in a range of software tools to enhance their academic performance, improve clinical practice, and excel in their future careers. Here are the key software skills that pharmacy students should develop

## 1. Pharmacy Management Systems :

**Examples : Pharmacist Workstations, Cerner, McKesson Pharmacy Management**  
**Proficiency Goals :**

- Learn how to manage medication inventories, patient prescriptions, and billing systems.
- Understand how to input and update medication records, track patient prescriptions, and ensure compliance with regulatory requirements.
- Ability to use drug interaction checkers and clinical decision support tools.

## 2. Electronic Health Records (EHR) Software :

**Examples: Epic Systems, Allscripts, NextGen Healthcare**  
**Proficiency Goals:**

- Ability to retrieve and input patient data, medication history, and lab results into electronic medical records.
- Knowledge of EHR privacy and security standards (e.g., HIPAA compliance).
- Skills in reviewing medication orders, making clinical decisions, and communicating with healthcare teams using EHR.

## 3. Clinical and Pharmaceutical Databases :

**Examples: Micromedex, UpToDate, PubMed, Lexicomp**  
**Proficiency Goals:**

- Ability to access and navigate clinical databases for evidence-based drug information.
- Conduct literature searches for academic research, drug interactions, and patient care guidelines.
- Analyze and interpret scientific data, studies, and drug safety information to inform clinical decisions.

## 4. Microsoft Office Suite

**Examples: Word, Excel, PowerPoint, Outlook**  
**Proficiency Goals:**

- Word: Create professional documents, reports, and prescription records.
- Excel: Use spreadsheets for inventory management, data analysis, and tracking medication usage.
- PowerPoint: Prepare presentations for class projects, seminars, or patient education materials.



Outlook: Manage email communication, calendars, and schedules for professional meetings and appointments.

## **5. Pharmacy-Specific Software for Drug Information and Formulary Management**

**Examples: First Databank, Formulary Decision Support Systems**

### **Proficiency Goals:**

Access and manage drug formulary lists, cost comparisons, and therapeutic guidelines.  
Ability to input and update drug formulary data and assist in medication selection for patient care.

## **6. Inventory and Supply Chain Management Tools**

**Examples : Oracle NetSuite, SAP Business One, Pharmacy Automation Systems**

### **Proficiency Goals :**

Learn to manage medication stock levels, track orders, and prevent shortages.  
Ensure optimal distribution and flow of pharmaceutical supplies within a pharmacy setting.  
Manage supplier data, purchase orders, and maintain proper inventory documentation.

# **Start Up & Incubation**

The motive of the event is to foster a culture of entrepreneurship, where students are encouraged to think creatively, take risks, and develop solutions that address real-world problems. The incubation program provides students with a supportive environment to test and refine their business ideas, offering them access to essential resources such as funding, mentorship from industry experts, networking opportunities, and workshops on essential skills like pitching, marketing, and business strategy.

Additionally, the event aims to connect students with professionals and investors, providing opportunities to secure funding and partnerships for their start-ups. By supporting students in launching their own businesses, the event contributes to job creation, economic growth, and innovation. It also empowers students to become leaders and changemakers, using their entrepreneurial ventures to positively impact their communities and society at large.

The ultimate goal is to prepare students for the challenges and opportunities of the modern business world, encouraging them to pursue entrepreneurship with confidence and the right tools to succeed.



# Mini Kalamanjari

The mini Kalamanjari you organized was a fantastic mix of traditional and creative performance. With activities like dance, drama, lazy dance, and a debate, it must have offered a great variety for students to express themselves. It's wonderful that students could show off their talents in so many different ways. The dance and drama must have been lively and engaging, while the lazy dance probably added a lighthearted touch. And a debate is always a great way for students to express their ideas and sharpen their communication skills.

The Mini Kalamanjari aimed to celebrate students' cultural diversity, talents, and creativity. The event featured a mix of traditional and modern performances, allowing students to showcase their skills in a variety of forms. These performances not only entertained but also helped build a deeper appreciation for cultural heritage and self-expression. It was an exciting opportunity for students to engage with their peers and highlight their unique abilities.

## Key Activities & Performances :

### Dance:

**Modern Dance Styles :** The inclusion of contemporary dance added energy and excitement to the event, allowing students to explore different movement styles and rhythms.

### Drama :

The drama segment involved students acting out skits, short plays, or traditional stories, giving them a platform to develop their acting skills.

The plays could have touched on cultural themes, folklore, or important social messages, offering both entertainment and education to the audience.

### Lazy Dance :

This was a fun and humorous segment, where students performed a slower, laid-back style of dance. It could have been a comedic break from the more intense performances, providing some lighthearted moments for both participants and the audience to enjoy.

The lazy dance could have also been a playful, non-competitive activity where students relaxed and had fun expressing themselves in an unconventional manner.

### Debate :

The debate gave students the chance to hone their public speaking and critical thinking skills. The topics might have been related to cultural values, societal issues, or even hypothetical situations.

Students worked in teams or individually, researching their topics and presenting arguments to an audience or panel of judges, which also helped foster a sense of teamwork and intellectual engagement.

## Audience Participation :

Throughout the event, the audience was actively engaged, cheering for their friends, applauding performances, and even taking part in some segments.

The debate might have included audience questions, where they got to challenge the debaters or express their thoughts, making the event more interactive.

## Purpose & Outcome :

**Cultural Celebration :** By showcasing traditional performances alongside modern interpretations, the event helped students connect with their cultural roots and express themselves in creative ways.

**Skill Development:** Students not only displayed their talents but also learned valuable skills like teamwork, communication, confidence, and discipline.

**Community Building:** The event likely brought the students together, allowing them to bond over shared experiences, celebrate diversity, and appreciate each other's talents.



Overall, the Mini Kalamanjari was a great success in providing a platform for students to explore, express, and celebrate their culture through a mix of fun and educational activities

