5.5. Innovations by the Faculty in Teaching and Learning

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are actions that lead to the enhancement of student learning. These actions can be innovations such as, application of ICT, delivery of instruction, instructional strategies, evaluation, assessment and inclusive classrooms that result in effective, efficient and motivating instruction. These methods help stimulate young minds and enhance their learning capabilities.

To improve students' overall learning experience, faculty members are encouraged to move beyond conventional teaching methods and adopt more creative and engaging instructional strategies.

Any contribution to teaching and learning must meet the following requirements:

5.5 Innovations by the Faculty in Teaching and Learning(15)

A. The work must be made available on Institute Website (2)

B. The work must be available for peer review and critique (3)

C. The work must be reproducible and developed further by other scholars (2)

D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (8)

Our college website has been made very student friendly wherein all the information and past question papers are made available to the students.

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Teaching-Learning Process (TLP): Adequate Preparation with the Use of Appropriate Methods

Adherence to Academic Calendar and Teaching-Learning Implementation

The institute prepares the academic calendar in advance of each semester and shares it via the website and email with students, parents, and faculty. It outlines key activities including internal assessments, academic reviews, and events like workshops, guest lectures, and industrial visits. Subject orientation at the semester's start includes course overview, practicals list, course outcomes (COs), CO-PO mapping, course materials, assignments with solutions, past exam papers, and the academic schedule with class timetables.

Teaching-Learning Implementation
Each course is allotted 4 hours per week plus practical sessions

. Learning is supported with digital tools, and implemented in steps:

1. Introduction of COs, POs and PEOs.
2. Student-led learning
3. ICT-based content engagement
4. Application through programs/models
5. Competitive assessment via quizzes, presentations, etc.

A structured formative assessment (FA) plan is followed using tools like MS Teams and Google Forms, including open-book and online tests.

Value-Added Activities at ANCP
The vision of ANCP is to instill in students the importance of continuously upgrading their knowledge and staying abreast of modern tools and technologies used in the profession.
To achieve this, **ANCP has implemented the following initiatives for students**:

Academic & Technical Activities

1. **Guest Lectures by Industry Experts**
   - **Guest lectures** on advanced topics (e.g., career paths, overseas opportunities) and pre-scheduled practical experiment lists enrich the academic experience. On current trends like AI in drug discovery, pharmacovigilance, regulatory affairs, etc.
2. **Workshops on Modern Tools**
   - Hands-on training in software like PharmaSim, Chemdraw, Molecular Docking Tools, etc.
3. **Certification Courses**
   - Short-term online/offline courses on Clinical Research, Data Analytics in Pharmacy, Good Manufacturing Practices (GMP).

Research & Innovation Activities

4. **Mini Research Projects**
   - Final-year students participate in guided research with emphasis on current innovations.
5. **Participation in Hackathons / Ideathons**

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- Encourage students to innovate in areas like health-tech apps or smart dosage tracking systems.

6. **Publication Drives**
   - Supporting students in publishing articles in reputed journals or conferences.

Digital & Blended Learning Tools

7. **Integration of Virtual Labs & Simulations**
   - Use of digital platforms for pharmacology experiments, biopharmaceutics, etc.
8. **NPTEL / SWAYAM Enrollment**
   - Hence it is important for our team to inculcate self-learning to our students to achieve lifelong learning and to tune with times. ANCP promotes this learning activity through curricular and extra-curricular activities. ANCP has subscribed Coursera courses for self-learning. Course coordinator identifies the platforms and modules for Self Learning (online platforms like NPTEL, SWAYAM, MOOCS, Coursera etc.) and inform the students about this before the Exam Enroll students in free or certified government MOOCs on pharmacy-related topics.

   Career & Skill Development
9. **Mock Interviews & Resume Building Workshops**
   - Training in communication, personal branding, and job readiness.
10. **Industrial Visits**

- Exposure to manufacturing units, quality control labs, or clinical trial centers.

11. **Skill Development Sessions**

- Covering drug regulatory affairs, pharmacy automation, telepharmacy, etc.

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Availability of Facility, Materials and Scope for Learning

S.No.	Activates	Beneficiary	Details
1	Library System	Faculty & Students	The institute has the effective Library The library is facilitated with more than Sixty thousand two hundred books and more than three thousand e-books, material, NPTEL video for students.
2	Availability of Internet facility in all labs	Faculty & Students	Our institute has dedicated 40 Mbps lease line with 100% uptime. The labs are equipped with internet facility and at any time internet can be made available in all the labs.
3	MOOCs like Swayam	Faculty & Students	SWAYAM is a programme initiated by government of India, the objective of this effort is to take the best teaching learning resources to all
4	Personality Development Lectures	Students	Creativity, lateral thinking and communication / people management skill are essential components for progress in any sphere. Students are encouraged to develop these through goal setting exercises, group discussions, mock interviews and presentations.
5	Placement Training Classes	Students	Special classes conduct to improve Aptitude, Reasoning (Verbal and nonverbal), Soft skill and communication of students for placement purpose
6	Industrial Visit	Students	To bring the gap between Industry and academia, various modules are covered
7	Training Program / Workshops / Seminars	Students	To enhance knowledge and develop technical skill
8	Technical Events	Students	To enhance the technical knowledge
9	International / National Conferences	Facilities & Students	For sharing new ideas and innovation common platform is provided.
10	FDPs	Faculty	Development of faculty
11	Social activities	Students	All round development essentially means intellectual physical, moral, sensible and social development.
12	Assignments	Students	It enabled students to go through the topics in a more elaborate manner in order to explore the academic topic which lead to an overall better learning experience for students. Assignments help the students to understand the subjects in a more details pattern

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The innovative methods adopted by faculty members to enrich the teaching-learning experience are summarized in Table 1 **below.**

Table 1:Innovative Teaching Techniques

1.	Experiential Learning
2	ICT-based teaching
3	Virtual Teaching
4	Self learning
5	Blended learning
6	Design Based And Group Activity Experiments
7	Project based learning
8	Quizzes
9	Employability training and career guidance
10	Industrial Visits
8	Design based and group activity experiments

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1.EXPERIENTIAL LEARNING

a) Carton boxes

During the Internal Viva-voce the students are shown these Empty medicine packaging boxes and are asked to identify the drug, category it belongs to, therapeutic use, mechanism of action,adverse drug reaction etc. This task enables them to apply their knowledge that has been imparted in the theory classes.

Aspect	Details
Objective (Statement of Clear Goals)	To enhance students' understanding of drug classifications, dosage forms, and pharmacological actions using real or mock medicine cartons creatively presented.
Description	Students use empty or mock medicine boxes to create models, posters, or 3D displays showing drug class, mechanism of action, dosage, side effects, brand/generic names, etc.
Significance of Results	Improved recall of pharmacological concepts through visual and tactile engagement. Boosted creativity, communication, and peer learning.

Mapping with Program Outcomes

PO	Outcome	Justification
PO1	Pharmacy Knowledge	Students apply core pharmacological concepts while identifying drugs.
PO2	Planning Abilities	Students plan their displays, manage time and resources, and collaborate effectively.
PO3	Problem Analysis	Students analyze drug properties and solve how best to represent them for educational clarity.
PO4	Modern Tool Usage	May include use of digital elements, QR codes, or software for label creation.
PO6	Professional Identity	Promotes role awareness as drug educators and medication experts.
PO8	Communication	Students communicate drug information clearly to peers and evaluators.
PO11	Life-long Learning	Encourages curiosity and self-directed learning beyond textbook content.

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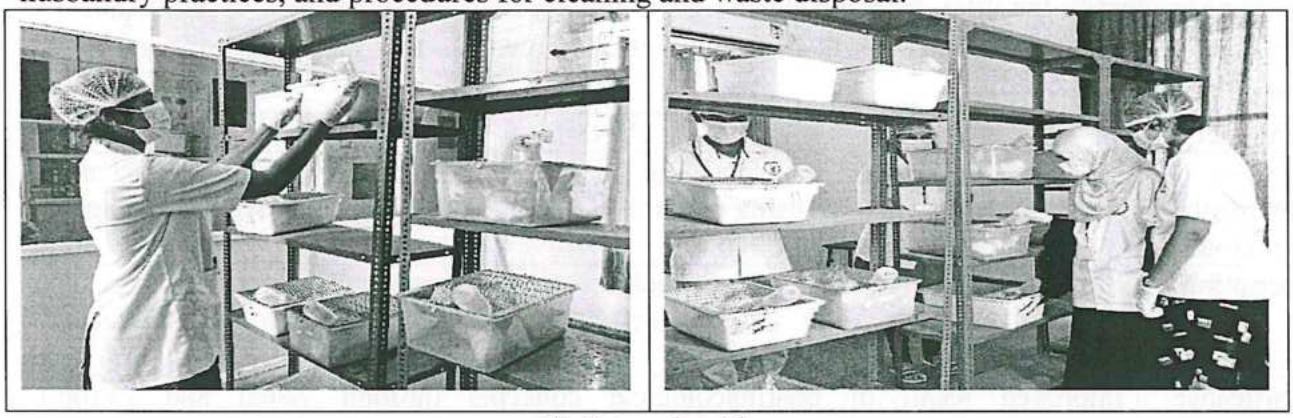
b) Visit to Animal House

Animal experiments are essential to understand drug action and evaluate efficacy and safety. During practical sessions, students are briefed on regulatory norms for breeding and maintaining small animals. They are also introduced to animal house operations, including the two-corridor system, husbandry practices, and procedures for cleaning and waste disposal.



Visit to animal house

Aspect	Details
Objective (Statement of Clear Goals)	To familiarize students with animal models used in pharmacological and toxicological studies, understand ethical handling, housing standards, and experimental protocols.
Description	A guided academic tour to the institution's or affiliated animal house facility, focusing on learning about animal care, standard operating procedures (SOPs), CPCSEA guidelines, and laboratory animal applications in drug discovery.
Significance of Results	Improved conceptual clarity in preclinical testing and ethical pharmacology practices. Preparedness for research and industry standards.
Methodology	Observation, interaction with animal facility staff, and faculty-led explanations, followed by reflective discussion/report.

Mapping with Program Outcomes

PO	Program Outcome	Relevance to Activity
PO1	Pharmacy Knowledge	Students observe application of pharmacology in preclinical drug testing.
PO3	Problem Analysis	Understanding animal models used for analyzing drug effects and toxic responses.
PO4	Modern Tool Usage	Exposure to equipment and techniques used in animal experimentation.
PO6	Professional Identity	Students realize their role and responsibility in ethical research practices.
PO7	Pharmaceutical Ethics	CPCSEA and animal handling rules stress ethical considerations.
PO11	Life-long Learning	Encourages interest in research and further exploration in pharmacological studies.

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c)Computer Assisted Learning for understanding drug biological response

The ANCP Department of Pharmacology focuses on experimental hand-on training. Although conventional demonstrations in animal models are informative, regulation imposes constraints in using animals. This has been overcome through Computer Assisted Learning (CAL) programs that model pharmacological experiments on models such as the heart, eye, ileum, and blood pressure. Interactive, animated software imitates laboratory conditions precisely to enable the visualization and perception of drug action without live animals.

Alternative Animal Experimentation (Simulation tools)

S.No.	Name of the software	Category	Applications
1.	Ex-Pharma	Subscribed	This is a computer assisted learning package containing various programs which simulate animal experiments in *Pharmacology*
2.	Micromedex	Subscribed	This indexing database provides access to full-text tertiary literature. This tertiary literature is unbiased, referenced information about drugs, toxicology, diseases, acute care, and alternative medicine.

Mapped Program Outcomes

PO	Program Outcome	Justification
PO1	Pharmacy Knowledge	Deepens understanding of pharmacological principles via simulation.
PO3	Problem Analysis	Helps analyze drug actions and predict therapeutic outcomes using virtual models.
PO4	Modern Tool Usage	Applies computing tools in pharmacological education — key digital skill.
PO7	Pharmaceutical Ethics	Reduces animal use, aligning with ethical and regulatory standards.
PO11	Life-long Learning	Encourages use of evolving tech tools for ongoing skill enhancement.

Patient counselling

The steps in patient counselling will vary according to the environment and practice conditions. Counselling is beneficial to students since it is a learning experience. Students will be able to listen and learn about the patients concerns, questions, and needs; helps student to ask questions, show empathy and encouragement, tailor counselling to meet the patients' needs, and motivate patients. They will also learn to effectively communicate in simple language and tailor the necessary information according to the patients understanding.

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Patient Counselling in GGH, at Kadapa

Mapping of Program Outcomes

PO	Program Outcome	Justification
PO1	Pharmacy Knowledge	Applies drug knowledge to real-world patient scenarios.
PO5	Leadership Skills	Encourages taking initiative in healthcare communication.
PO6	Professional Identity	Reinforces the pharmacist's clinical and public role.
PO7	Pharmaceutical Ethics	Fosters responsible, ethical interaction with patients.
PO8	Communication	Core outcome — strengthens verbal and non-verbal patient communication.
PO9	Pharmacist and Society	Connects pharmacy practice with public health outcomes.
PO11	Life-long Learning	Continuous improvement in patient care and soft skills.

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c) Drug information

This service is intended to provide advice for health care providers regarding the various aspects of drug therapy and its management. This provides an evidence-based information from literature search. Drug related queries from physician during ward rounds will be addressed by the students. Information gathered will be synthesized and conveyed based on the priority.

With this service students will be able to

- Understand how to retrieve and interpret drug and biomedical literature.
- Provide systematic approach to address the query
- Develop communication skills
- Understand the disease and therapeutic information

Drug Information Centre

Mapping with Program Outcomes

PO	Program Outcome	Justification
PO1	Pharmacy Knowledge	Applies core knowledge in evaluating pharmacological, clinical, and pharmaceutical data.
PO2	Planning Abilities	Involves timely research and organized presentation of drug information.
PO3	Problem Analysis	Analyzes drug interactions, side effects, and therapeutic alternatives.
PO4	Modern Tool Usage	Utilizes digital databases and tools for literature search and reporting.
PO6	Professional Identity	Reinforces pharmacist's role in guiding drug-related decisions.
PO8	Communication	Focuses on effectively communicating complex drug information.
PO11	Life-long Learning	Encourages continual learning to keep up with new medications and evidence.

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2. ICT BASED LEARNING

a) Teachers use ICT Enabled tools for effective teaching-learning process

Annamacharya College of Pharmacy integrates a variety of ICT tools into its teaching-learning process, enhancing students' learning potential, fostering active participation, and building self-confidence and self-esteem. The college provides a robust IT infrastructure, including computers, LAN connectivity, and internet access with a speed of 40 Mbps to support technology-enabled education. Classrooms are equipped with LCD projectors, and e-classrooms have been established to facilitate virtual learning experiences.

Faculty members effectively utilize Learning Management Systems (LMS) and online platforms like Google Meet, Cisco Webex, and Microsoft Teams for conducting classes. They also incorporate teaching aids such as MOOCs, e-PG Pathshala, and SWAYAM. The institution previously employed the Clinical Learning Pharmacology Package for pharmacology experiments, now replaced by the Ex-Pharm Series. Additionally, the college subscribes to *Micromedex*, a comprehensive drug information database.

The Digital Library is equipped with computers for accessing e-books, e-journals, and databases such as KNIMBUS , along with resources like e-ShodhSindhu and e-ShodhGanga. Library operations are automated using TLSS software. Faculty members stay updated by conducting literature searches through research databases like Web of Science, PubMed, Google Scholar, Elsevier, and Springer, ensuring the teaching-learning process remains relevant and well-informed.

b) ICT Supported Learning with LCD projectors, Power point Presentation, NPTEL,

S.NO	Room number or Name of classrooms/Seminar Hall with LCD / wifi/LAN facilities with room numbers	Type of ICT facility
1	Room No.F006 LECTURE HALL 1	Laptop, Projector &Wi-Fi Facility
2	Room No. F007 LECTURE HALL 2	Laptop, Projector &Wi-Fi Facility
3	Room No. F008 LECTURE HALL 3	Laptop, Projector &Wi-Fi Facility
4	Room No .F021LECTURE HALL 4	Laptop, Projector &Wi-Fi Facility
5	Room No: F022 LECTURE HALL 5	Laptop, Projector &Wi-Fi Facility
6	Room No: F023 SMART CLASS ROOM	Smart TV, Laptop, Projector &Wi-Fi Facility
7	Room No: S008 LECTURE HALL 7	Laptop, Projector &Wi-Fi Facility
8	Room No. S009 LECTURE HALL 8	Laptop, Projector &Wi-Fi Facility
9	Room No. S010 LECTURE HALL 9	Laptop, Projector & Wi-Fi Facility
10	Room No. S039 LECTURE HALL 10	Laptop, Projector &Wi-Fi Facility
11	Room No. S040 LECTURE HALL 11	Laptop, Projector &Wi-Fi Facility
12	Room No. S041 LECTURE HALL 12	Laptop, Projector &Wi-Fi Facility
13	Room No. S004 LECTURE HALL 13	Laptop, Projector &Wi-Fi Facility
14	Room No. S006 LECTURE HALL 14	Laptop, Projector &Wi-Fi Facility
15	Room No. S012LECTURE HALL 15	Laptop, Projector &Wi-Fi Facility
16	Room No. S024 LECTURE HALL 16	Laptop, Projector &Wi-Fi Facility
17	Room No. S027 LECTURE HALL 17	Laptop, Projector &Wi-Fi Facility
18	Room No. S038 LECTURE HALL 18	Laptop, Projector &Wi-Fi Facility
19	Room No.S047 LECTURE HALL 19	Laptop, Projector &Wi-Fi Facility
20	Room No.S047 LECTURE HALL 20	Laptop, Projector &Wi-Fi Facility
21	Room No.G030 (SEMINAR HALL)	Laptop, Projector & Wi-Fi Facility

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c) ICT Enabled Teaching:

IT Facilities in the college

S. No.	IT Facility	Available No.
1.	Computers	135
2.	Printers	10
3.	Scanners	4
4.	Hard disk	3
5.	LCD Projectors	17
6.	Xerox machines	4
7.	Laptops	2
7.	CCTV Footage	19
8.	Broad band	BSNL
9.	Bandwidth	40MBPS

d) Digital Library

S. No	Components	Description
1.	No. of Computers	09
2.	Internet Speed	40 MBPS
3.	Configuration	Processor: Intel (R) Pentium (R) CPU G2020@2.90 GHZ RAM : 4.00GB ROM : 500 GB WINDOWS 8.1 Enterprise
4.	Library Automation	TLSS
5.	e-Journals	KNIMBUS

e) **Digital Library resources** (KNIMBUS)

The use of ICT (Information and Communication Technology) enabled tools in the teaching-learning process is highly encouraged. These tools enhance the effectiveness of education by making it more interactive, accessible, and student-centered. Here's how ICT-enabled tools are utilized for effective teaching and learning.

Seminar Rooms- Seminar hall is equipped with all digital facilities, projector, mike, and computer system.

Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom

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S.no	Name of the faculty	Content	Slide share link
1	Dr C.Suryaprakash Reddy Professor Department of pharmaceutics	Pilot Plant Scale Up Techniques	https://www.slideshare.net/slideshow/1-pilot-plant-scale-up-techniques-introduction-pdf/280572077
2	Dr C.Suryaprakash Reddy Professor Department of pharmaceutics	Regulatory Affairs	https://www.slideshare.net/slideshow/1-regulatory-affairs-introduction-pdf/280572078
3	Dr C.Suryaprakash Reddy Professor Department of pharmaceutics	Total Quality Management (TQM) in pharmaceutical Industry	https://www.slideshare.net/slideshow/1-total-quality-management-tqm-in-pharmaceutical-industry-pdf/280572081
4	Dr C.Suryaprakash Reddy Professor Department of pharmaceutics	WHO Guidelines for technology transfer.	https://www.slideshare.net/slideshow/1-who-guidelines-for-technology-transfer-pdf/280572079
5	Dr M.Deepa Professor Department of pharmaceutical chemistry	Significance of computational tools in drug discovery	https://www.slideshare.net/slideshows/significance-of-computational-tools-in-drug-discovery/266455270
6	Dr M.Deepa Professor Department of pharmaceutical chemistry	Empowering women on Latest Technology Where do we stand	https://www.slideshare.net/slideshow/empowering-women-on-latest-technology-where-do-we-stand/280576959

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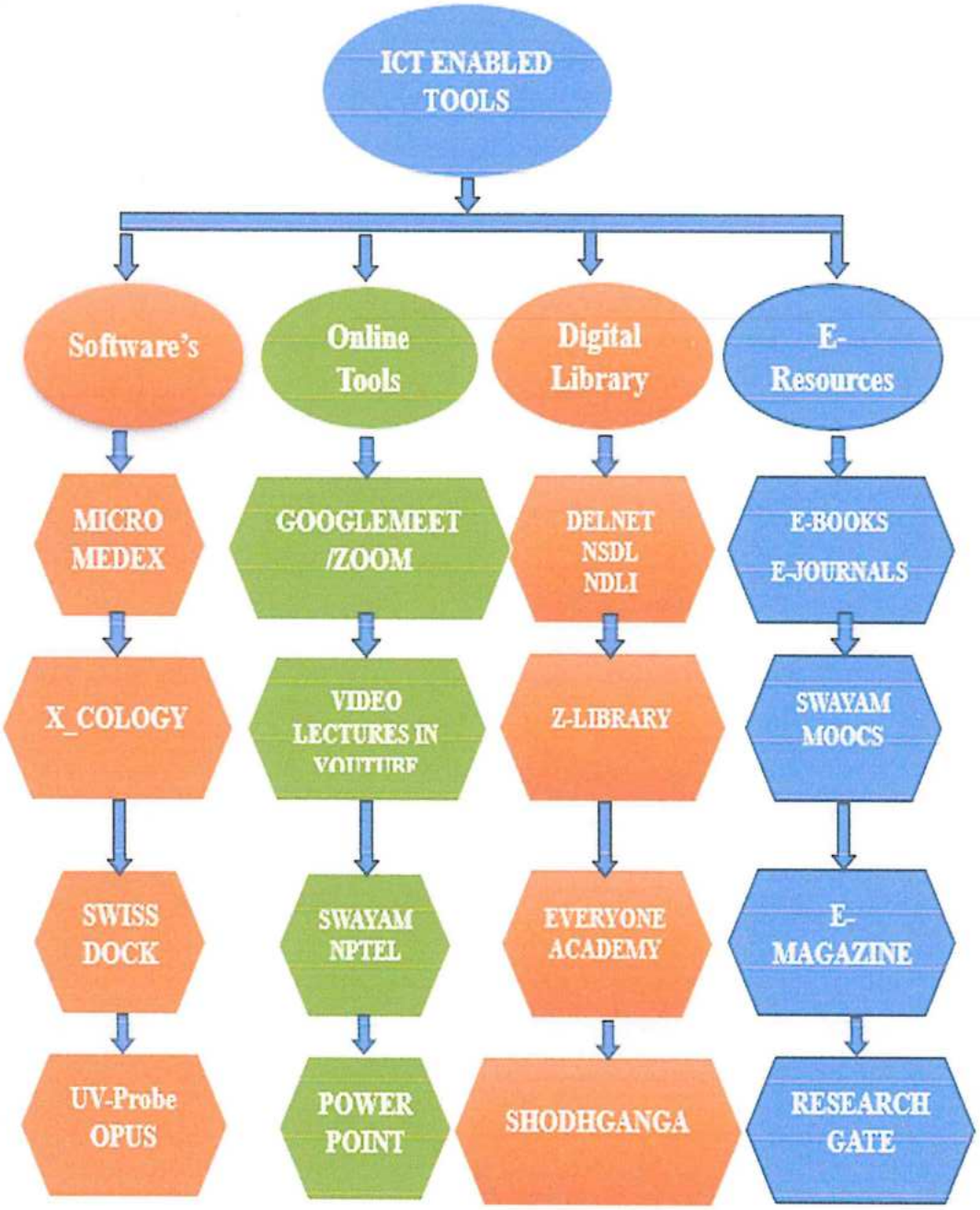

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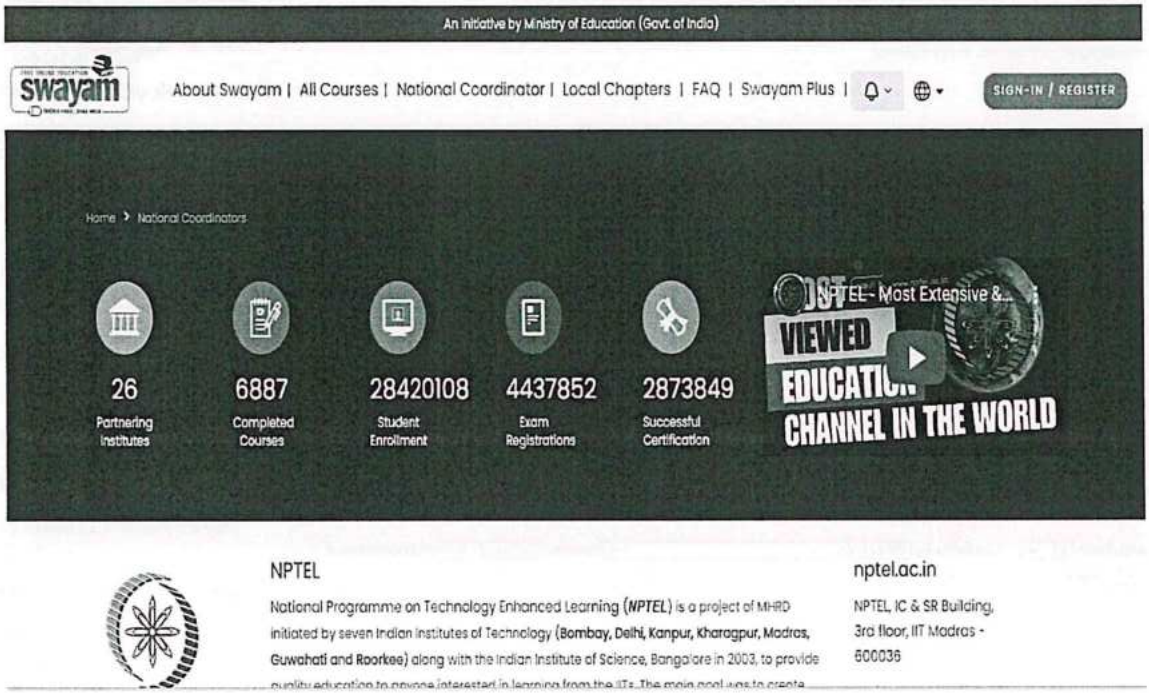
NATIONAL DIGITAL LIBRARY OF INDIA (NDLI)

SWAYAM-NPTEL



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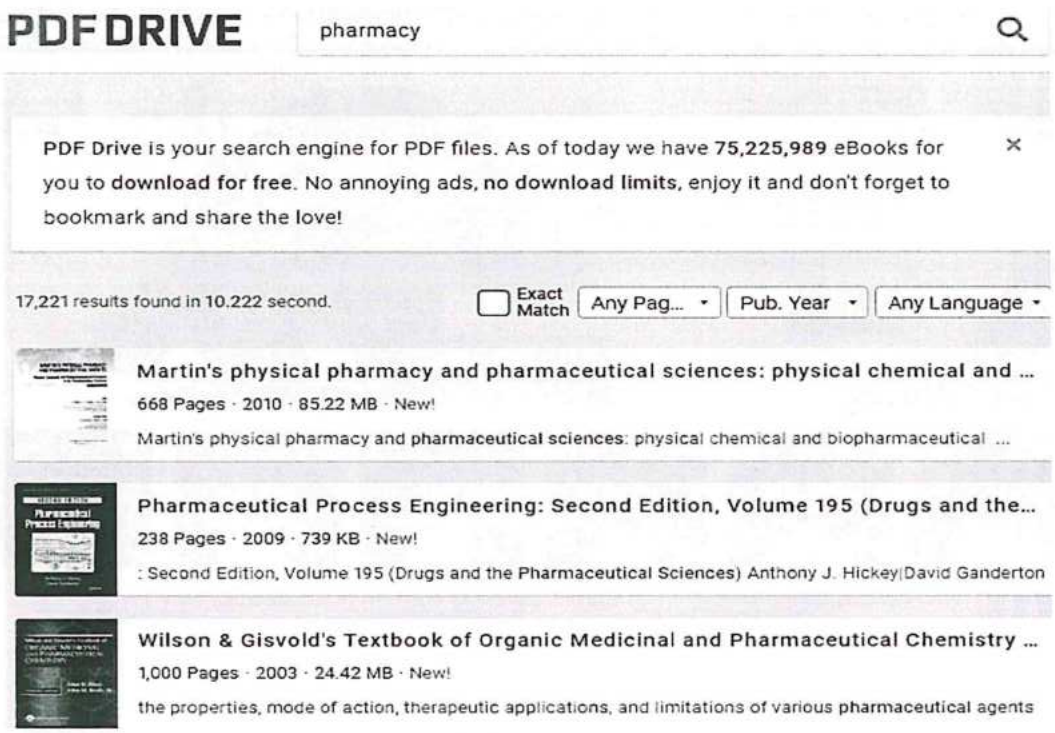
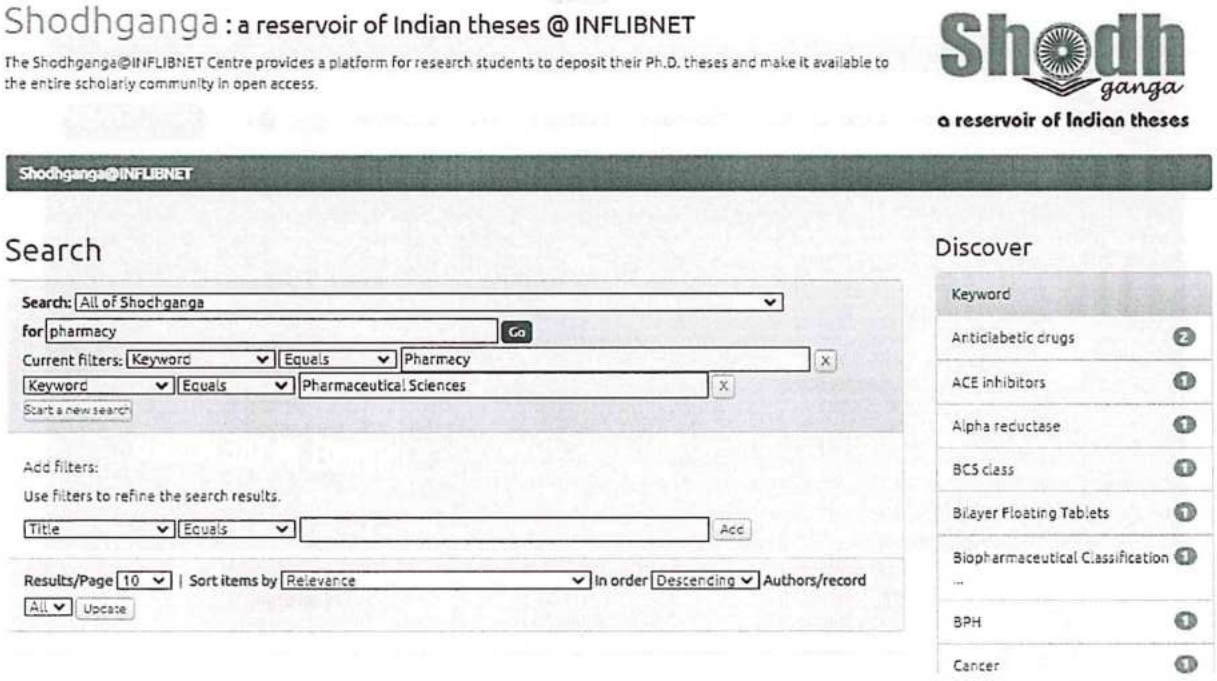
PDF DRIVE



E-SHODHGANGA



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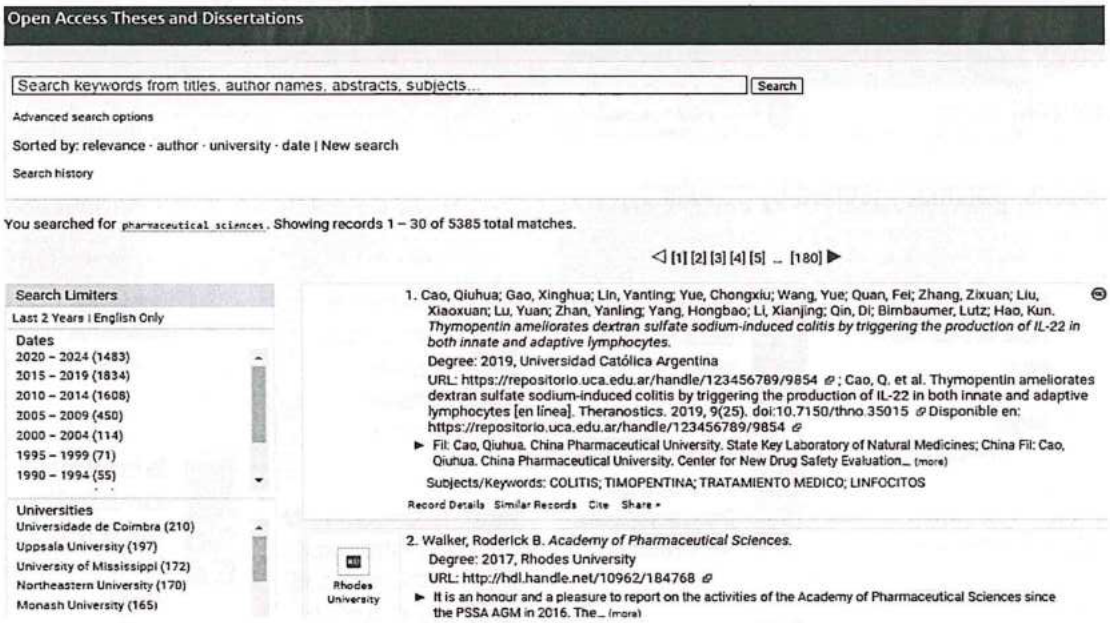
E-SHODHSINDHU

New@eSS

Off-Campus (Remote) access to online resources
posted on 31 Mar 2020

AICTE Suggested Engineering Books of

OPEN ACCESS THESIS AND DISSERTATION (OATD)



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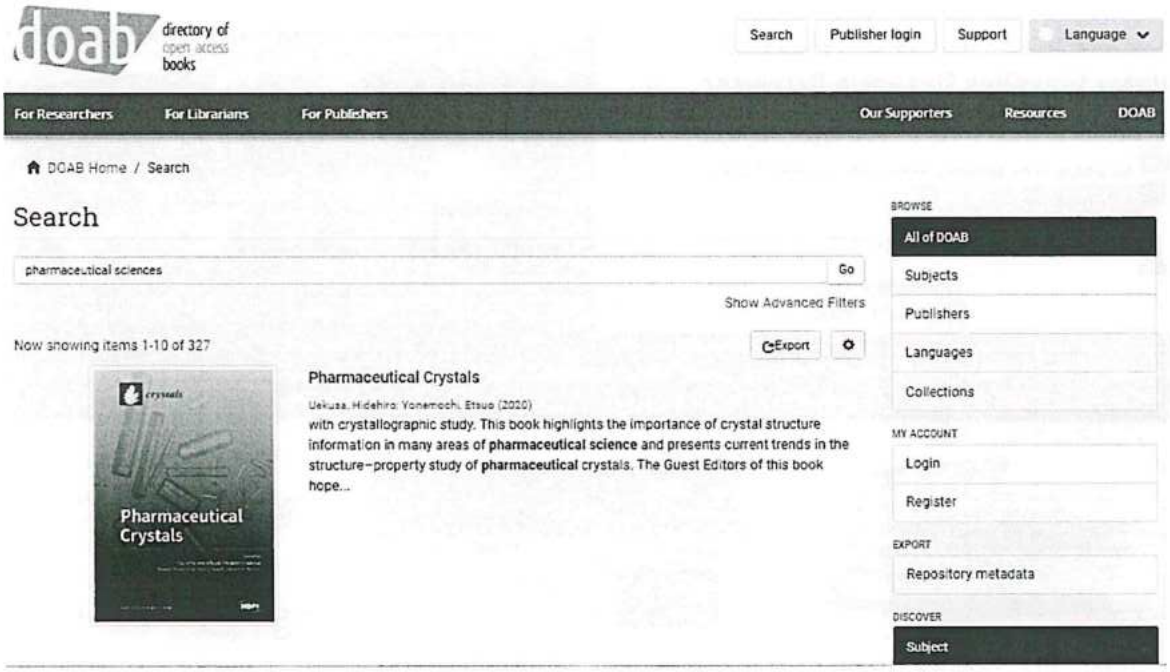
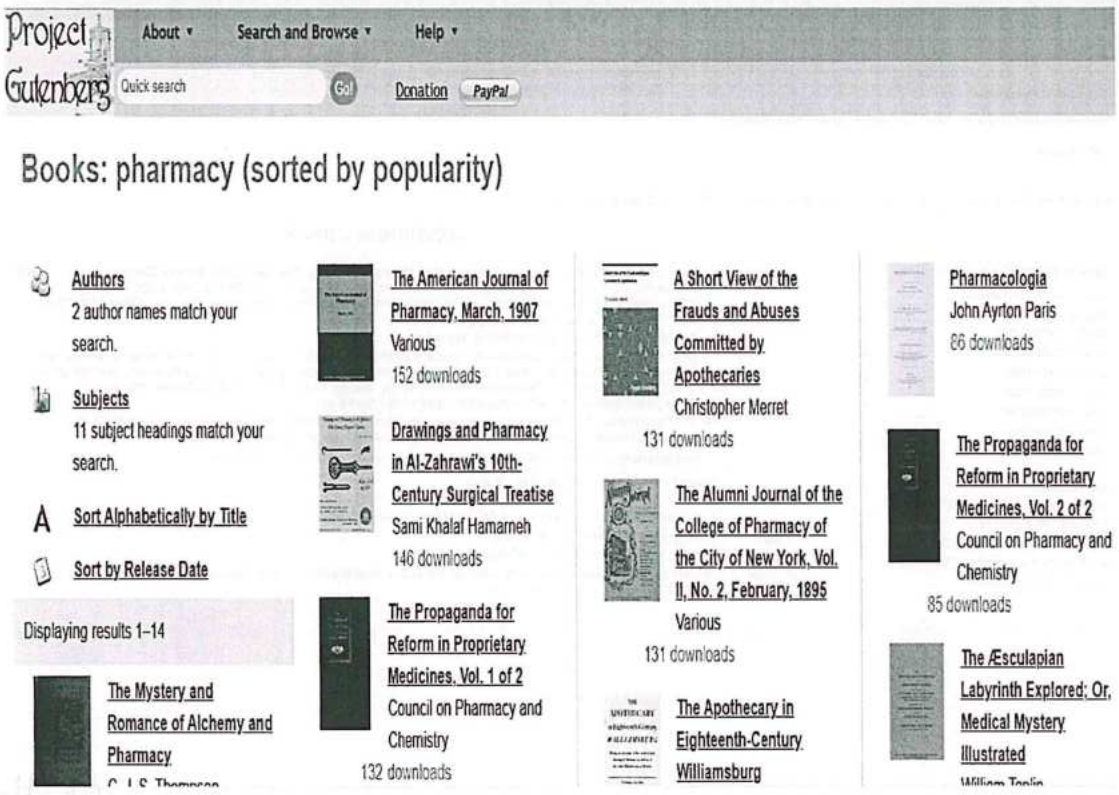
DIRECTORY OF OPEN ACCESS BOOKS



PROJECT GUTENBERG



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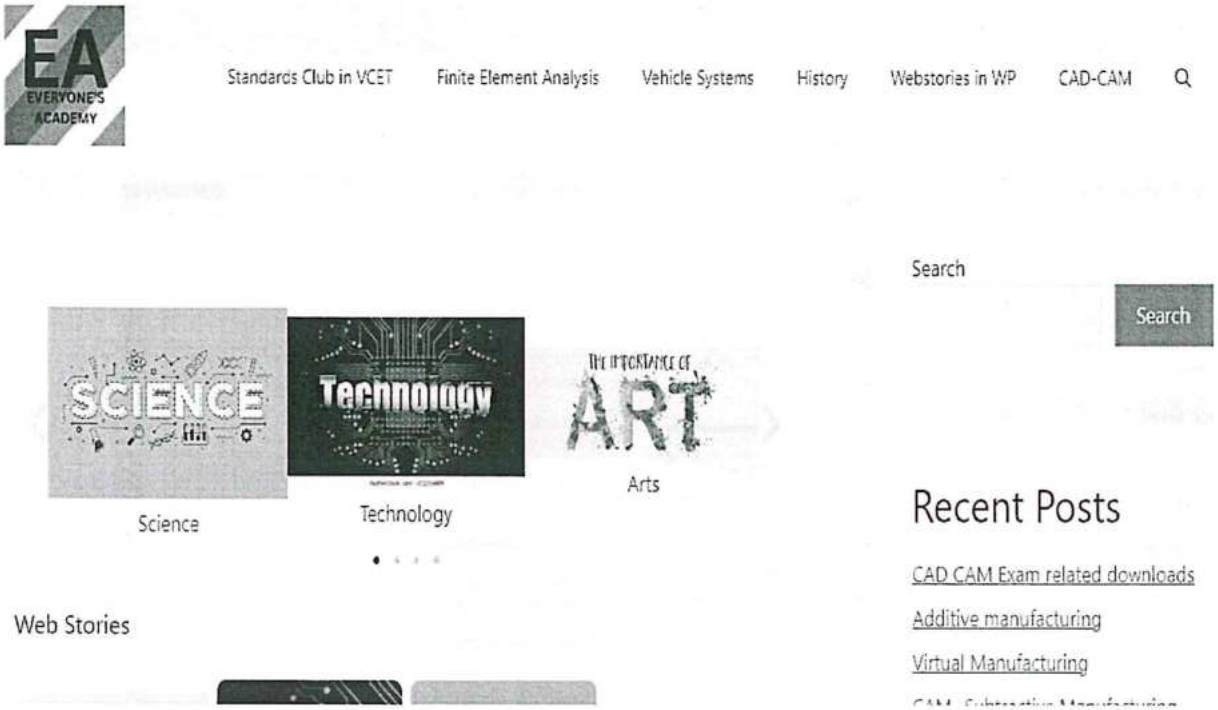
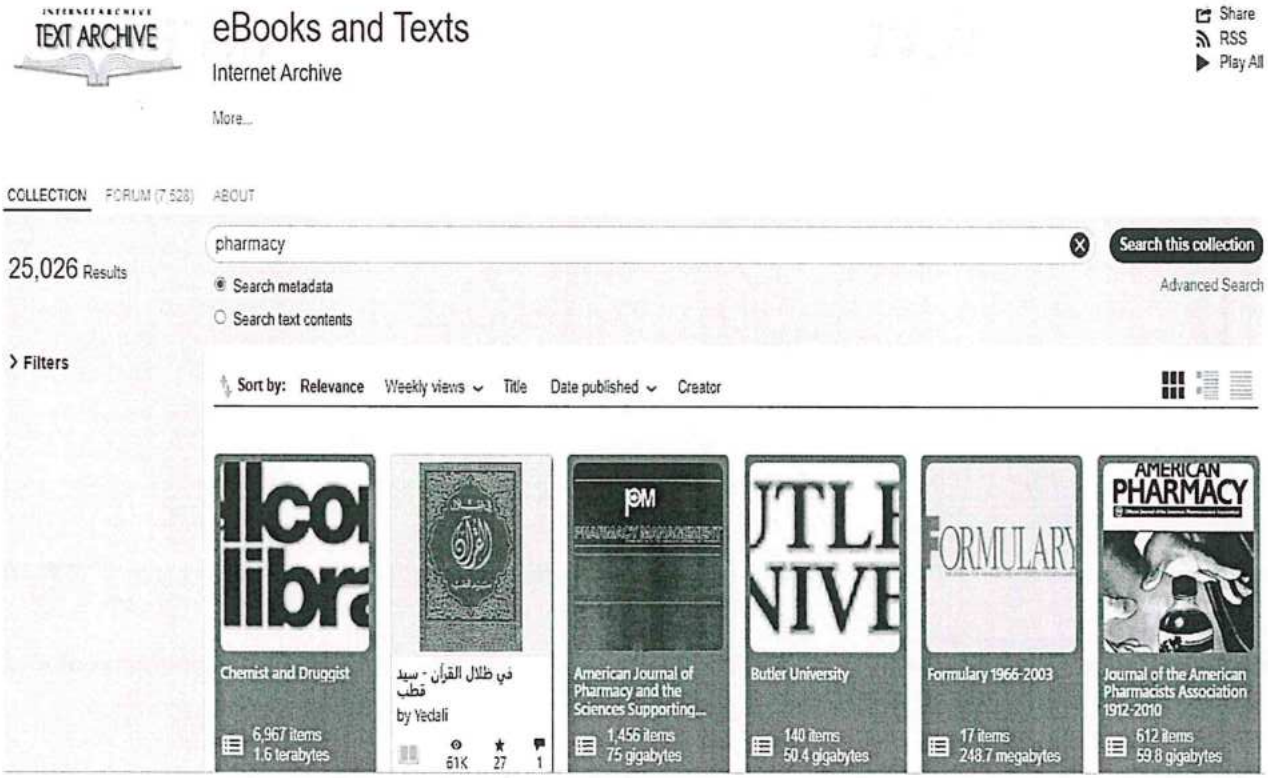
EVERYONE ACADEMY



INTERNET ARCHIVE



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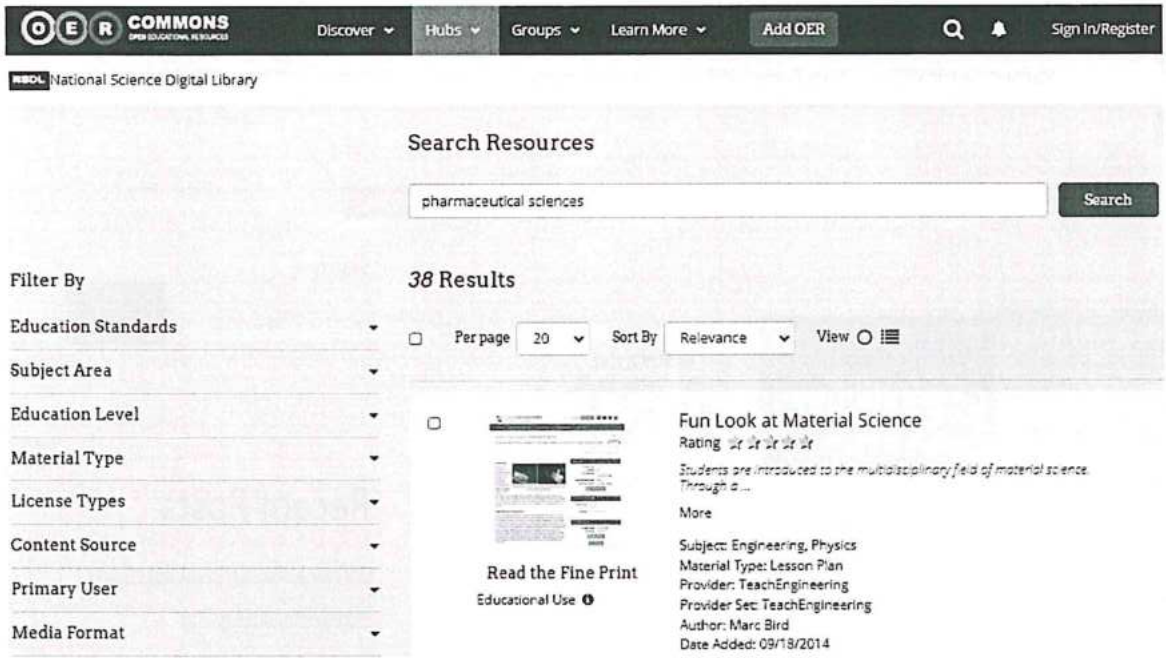
NATIONAL SCIENCE DIGITAL LIBRARY (NSDL)



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3.VIRTUAL TEACHING

Methodology employed: Teaching through Virtual tools such as

- Swiss dock
- Swiss ADME
- Auto Dock
- Openbabel
- Chemspider
- Chemdraw

- **List of open-source and subscribed software support for advanced learning**

S. No	Name of the software	Category	Applications
1.	**AutoDock 4.2.0**	**Opensource**	AutoDock 4.2.0 is a widely used molecular docking software developed by the Scripps Research Institute. It is designed to predict the preferred orientation of a small molecule (ligand) when bound to a large molecule (typically a protein or DNA)
2.	**Way2drug**	**Opensource**	The Way2Drug informational-computational platform provides access to the data on drugs approved for medicinal use in the USA and Russian Federation, as well as computational possibilities for the prediction of biological activity of drug-like organic compounds
3.	**Open babel**	**Open source**	**Open Babel** is a chemical informatics toolkit that allows for the conversion of chemical file formats, analysis, and manipulation of molecular structures. It is widely used in computational chemistry, bioinformatics, and cheminformatics due to its flexibility and broad compatibility with various chemical data formats.
4.	**OBS**	**Open source**	**OBS**, short for **Open Broadcaster Software,** is a popular free and open-source software suite used for video recording and live streaming. OBS Studio, its most commonly known version, is favored by gamers, content creators, educators, and professionals for its versatility and wide range of features.
5.	**Swiss Dock**	**Open source**	Molecular docking between ligand and receptor
6.	**Swiss ADME**	**Open source**	Prediction of ADME properties
7.	**PaDEL**	**Opensource**	Calculation of different descriptors of QSAR
8.	**Chemspider**	**Opensource**	*ChemSpider* is a free chemical structure database providing fast text and structure search access to over 100 million structures from hundreds of data sources.

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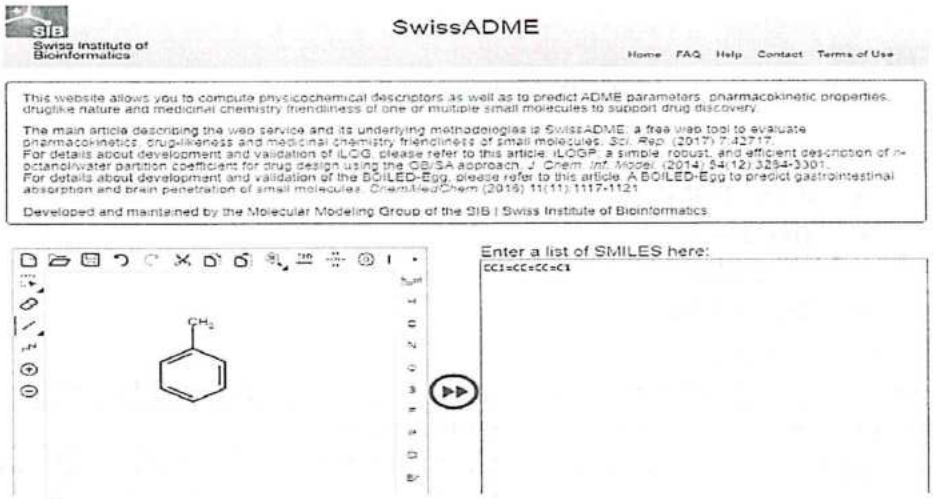
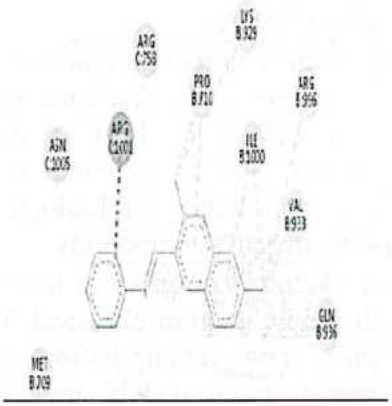


Compound 01 docking interactions with SARS Spike Glycoprotein human ACE2 inhibitor



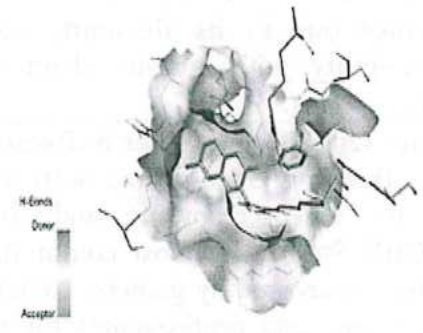
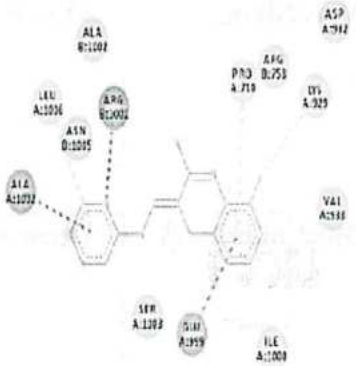


Figure 5.1: a) represents 2D interactions of compound 01, b) represents 3D interaction formed by the compound 01 with drug target.

Compound 02 docking interactions with SARS Spike Glycoprotein human ACE2 inhibitor



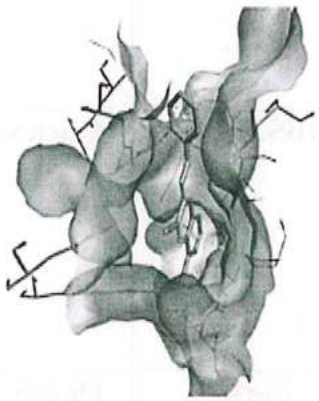


Figure 2: a) represents 2D interactions of compound 02, b) represents 3D interaction formed by the compound 02 with drug target.

Prediction of binding interactions using Swiss dock

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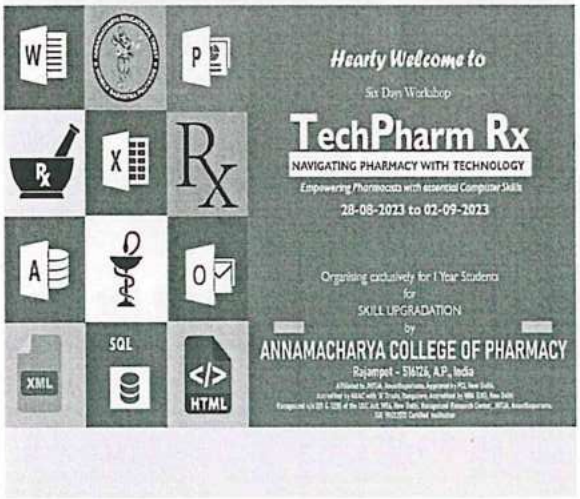
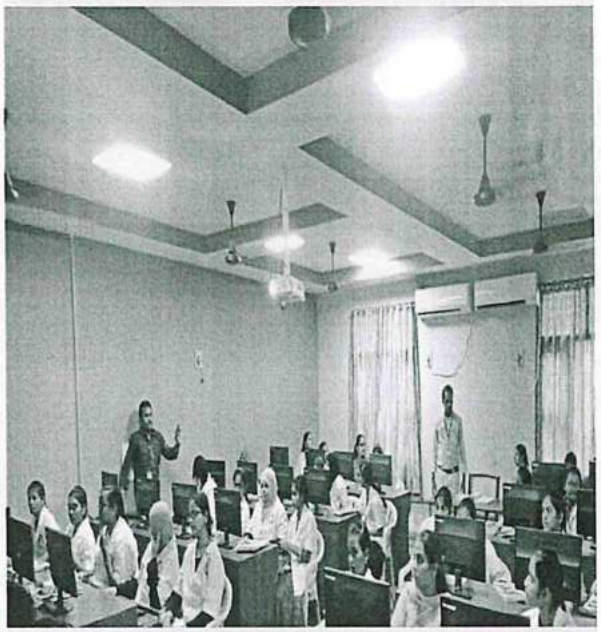
VIRTUAL TEACHING

a) TechPharm Rx under Virtual Teaching





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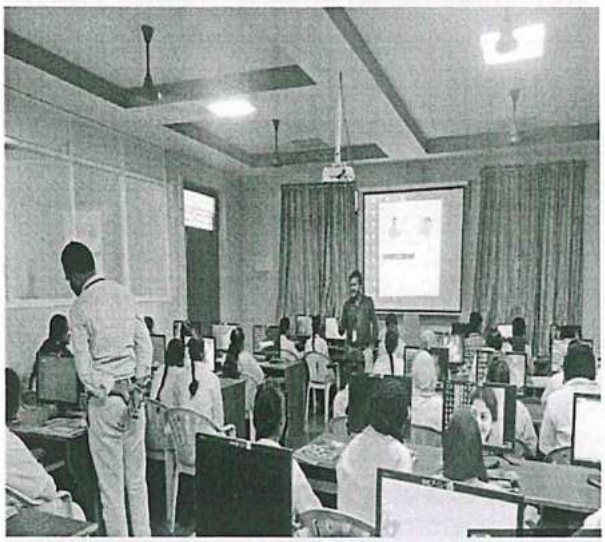

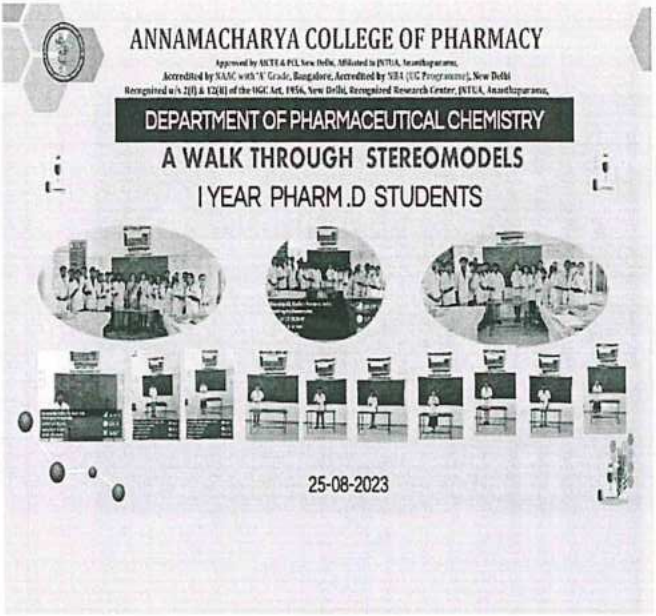

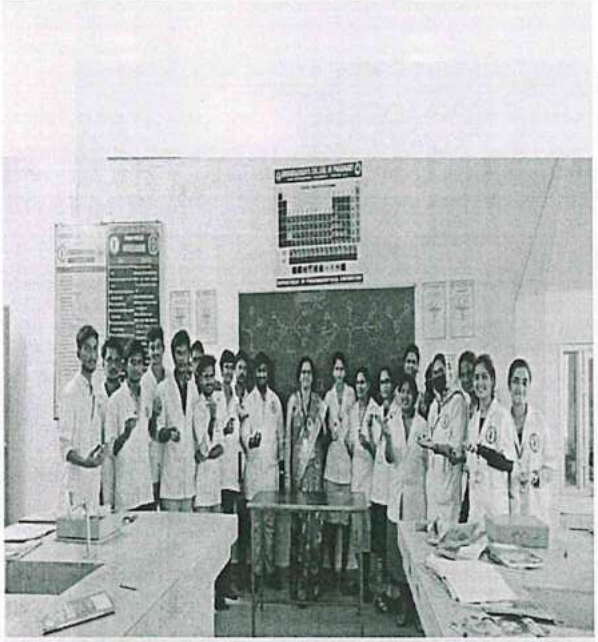

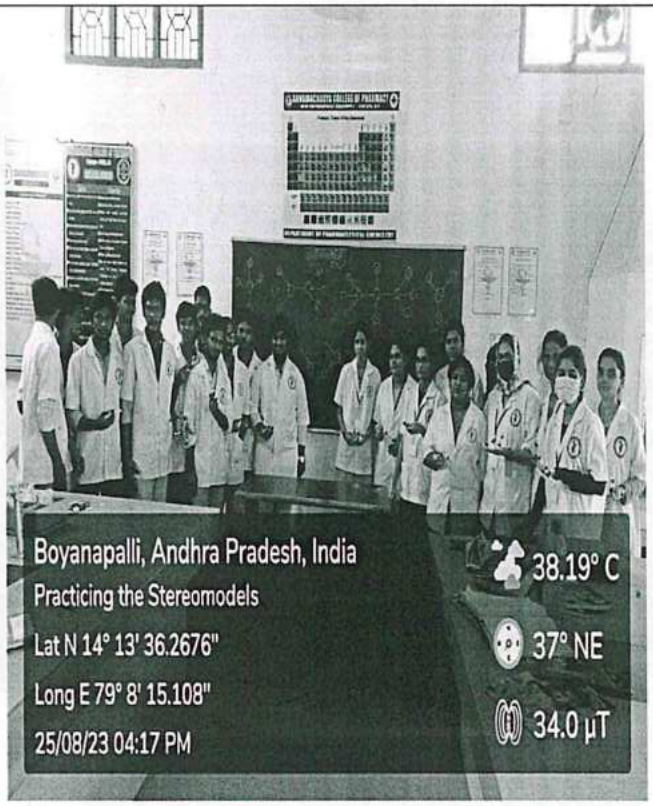

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b) Virtual Lab:

To provide remote-access to simulation-based Labs in various disciplinesof Pharmacy.

Simulation tools:

S.No	**Name of the software**	**Category**	**Applications**
1.	Ex-Pharma	Subscribed	This is a computer assisted learning package containing various programs which simulate animal experiments in *Pharmacology*
2.	Micromedex	Subscribed	This indexing database provides access to full-text tertiary literature. This tertiary literature is unbiased, referenced information about drugs, toxicology, diseases, acute care, and alternative medicine.

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Gmail

Annamacharya College of Pharmcy <ancpaet@gmail.com>

Annamacharya CoP: Micromedex Renewal confirmation 2024-25

1 message

Amarnath N <amarnathn@daiknow.com> Wed, Jul 3, 2024 at 5:04 PM
To: "Principal (Annamacharya CoP)" <ancpaet@gmail.com>, "Library (Annamacharya CoP)" <ancplibrarym7@gmail.com>
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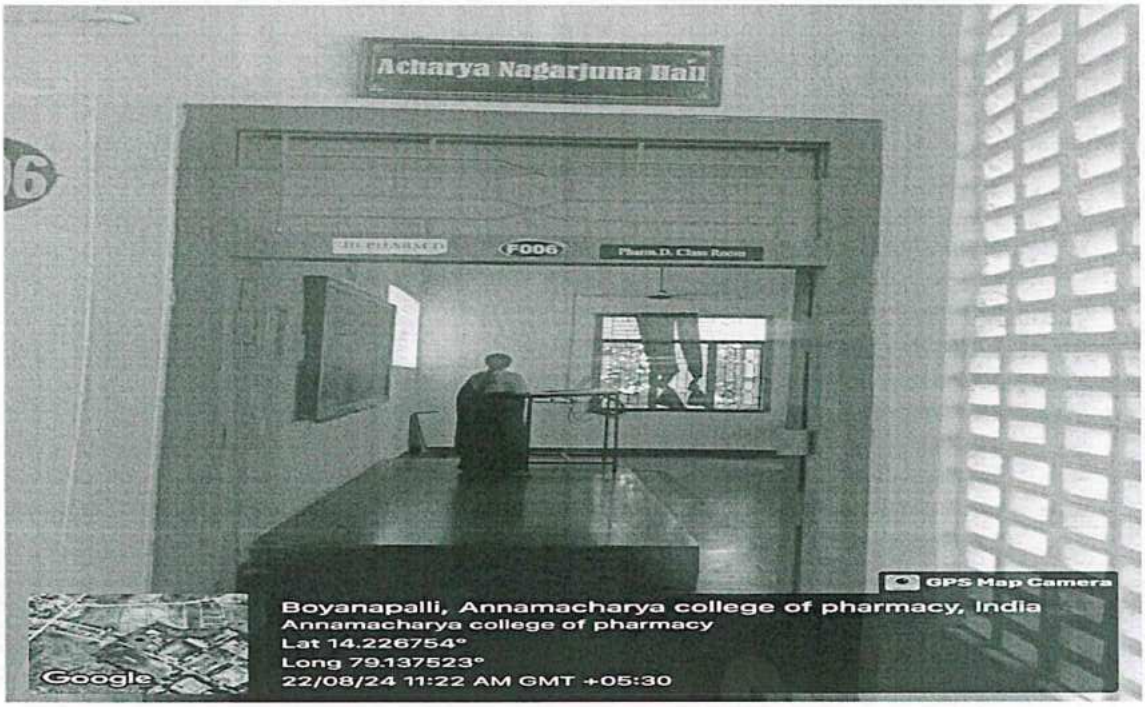
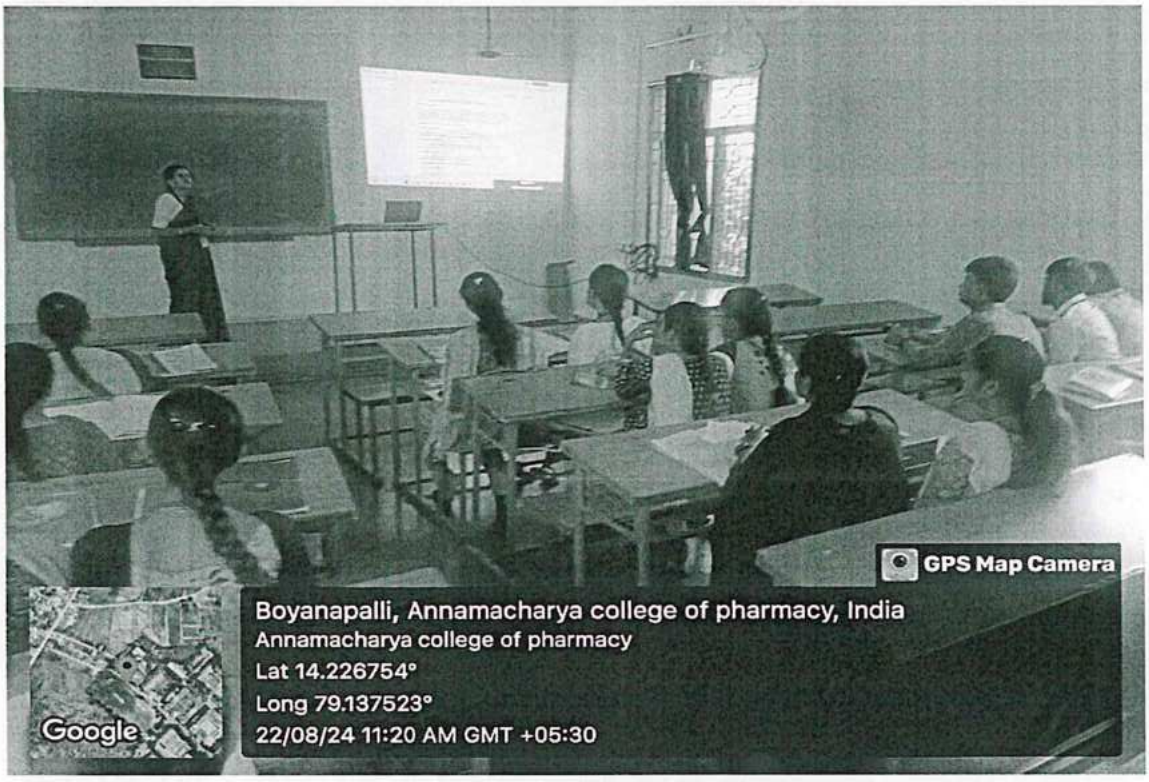
Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.



Faculty using ICT Tool in Acharya Nagarjuna Hall



Faculty using ICT Tool in Acharya Nagarjuna Hall F006LECTUREHALL1

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NEW BOYANAPALLI - 516 126
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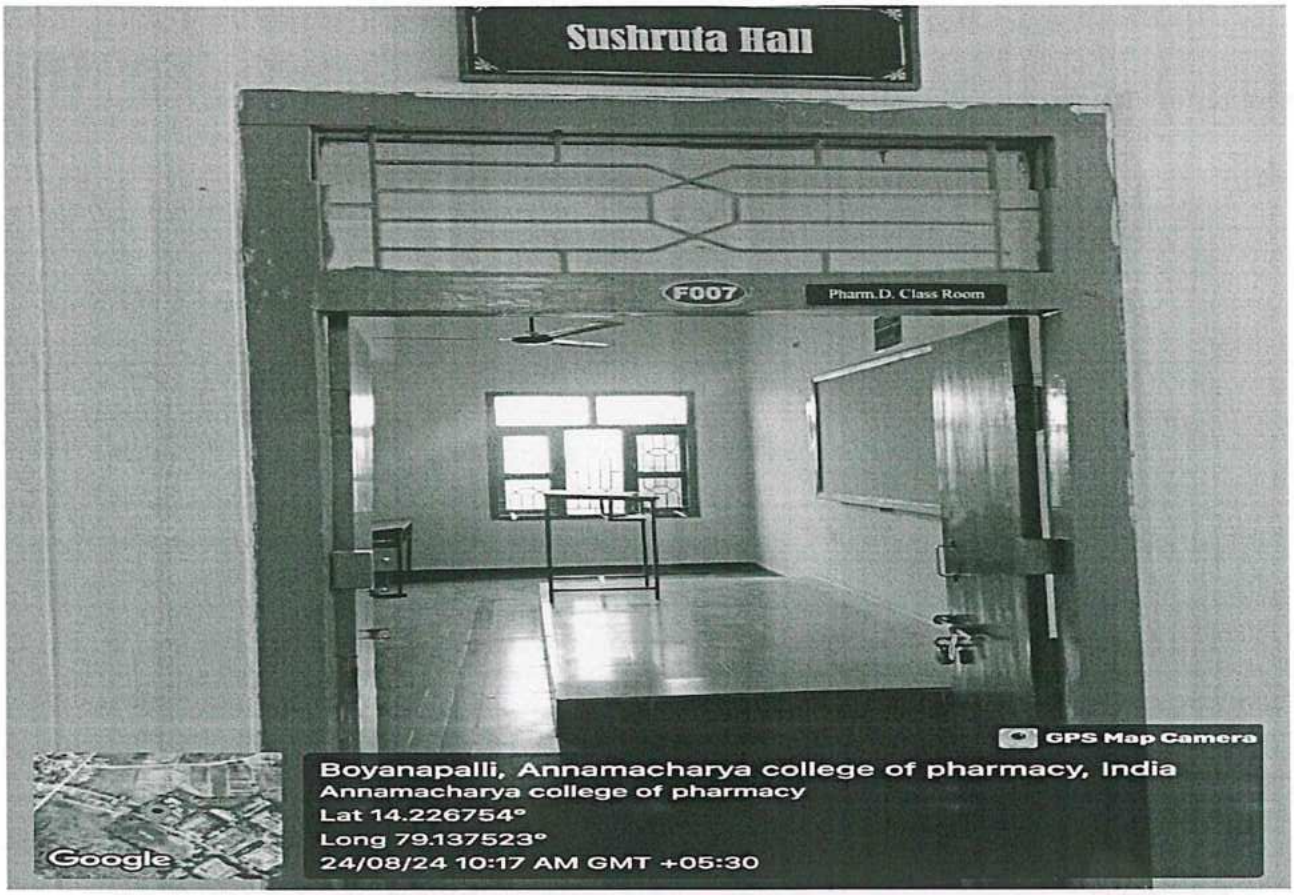
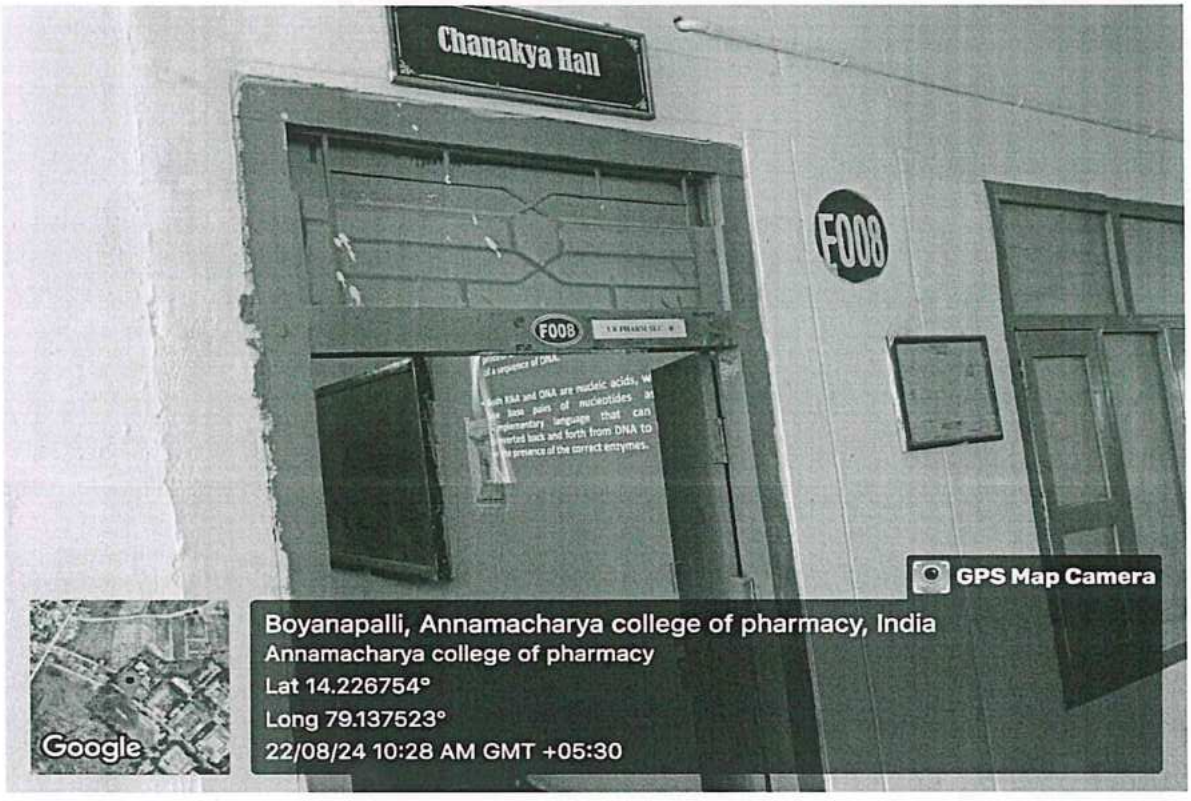
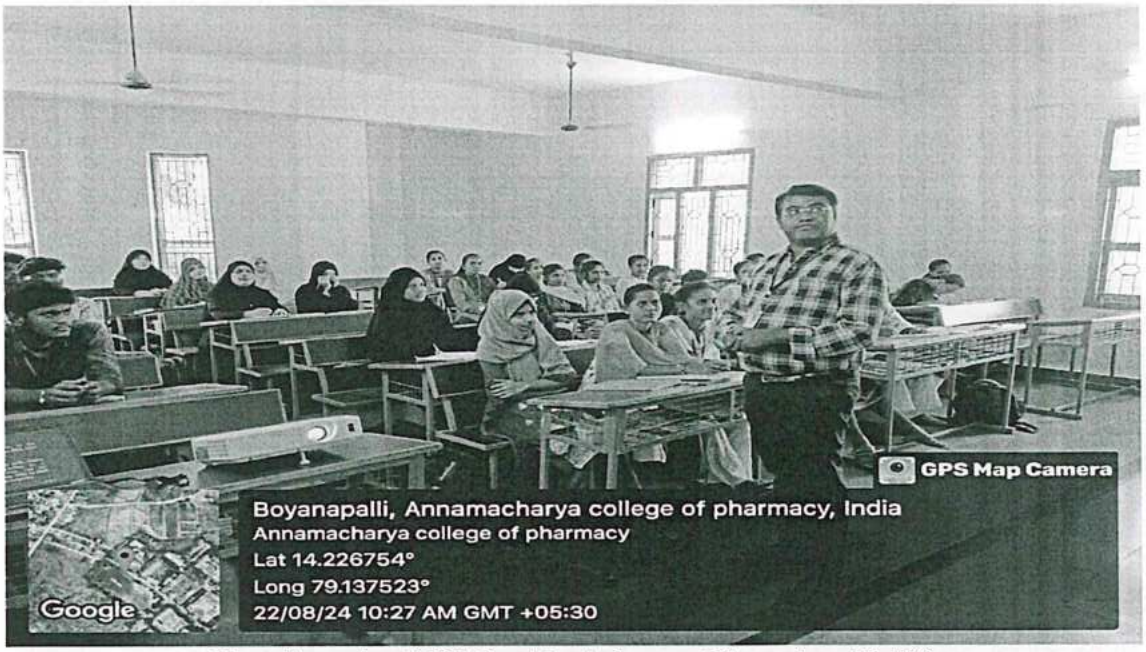


ICT Tools in F007LECTUREHALL



Acharya Chanakya Hall 2

PRINCIPAL
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI - 516 126
RAJAMPET, ANNAMAYYA Dist. A.P



Faculty using ICT Tool in Acharya Chanakya Hall 2

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NEW BOYANAPALLI - 516 126
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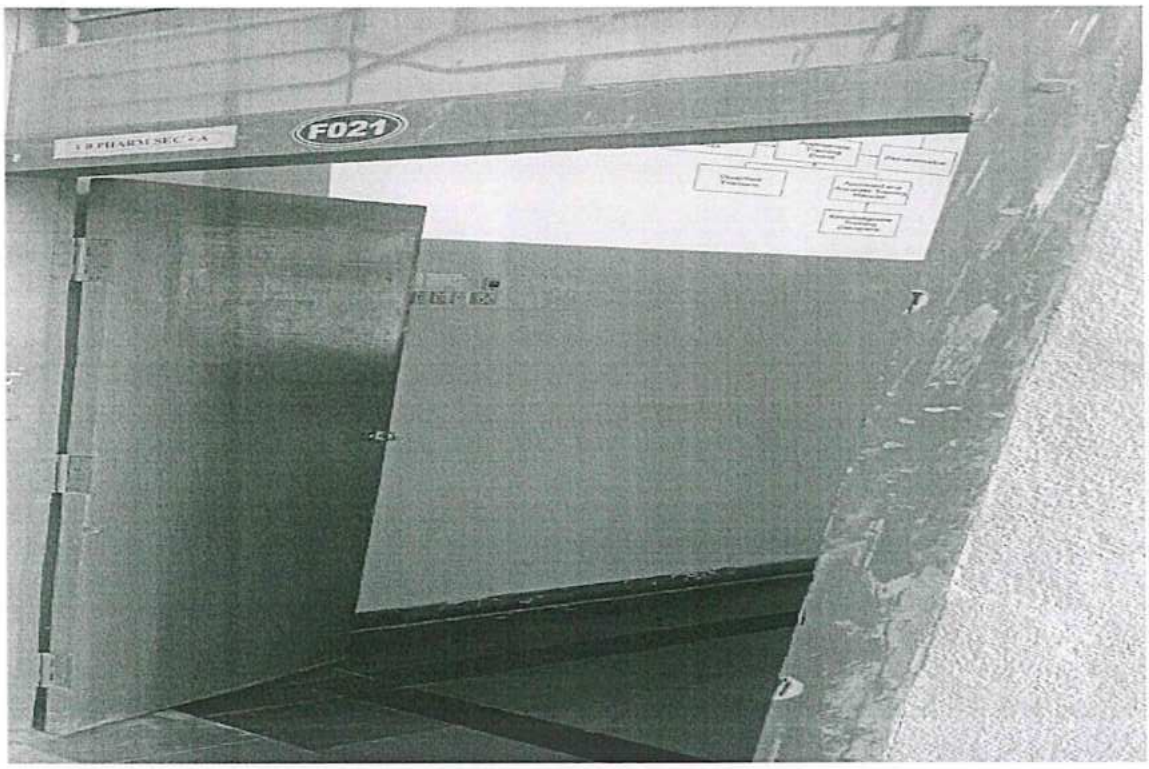
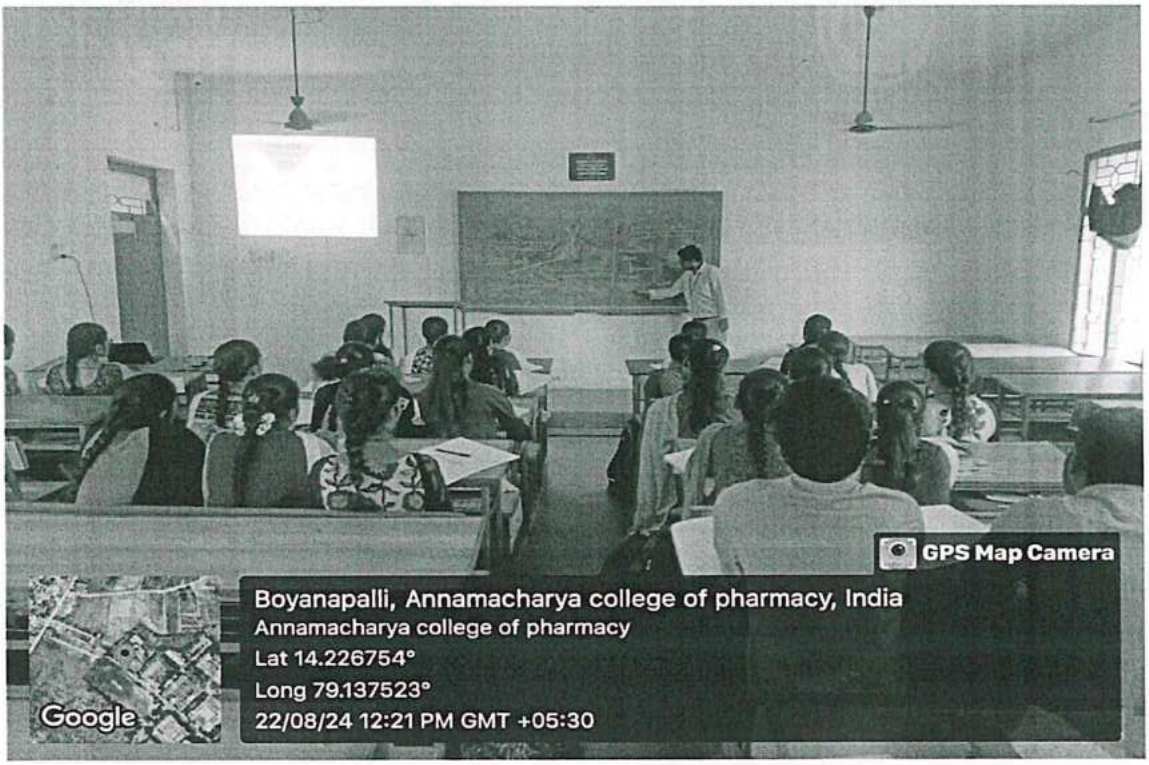


F021LECTUREHALL 3



Faculty using ICT Tool in LECTUREHALL 3

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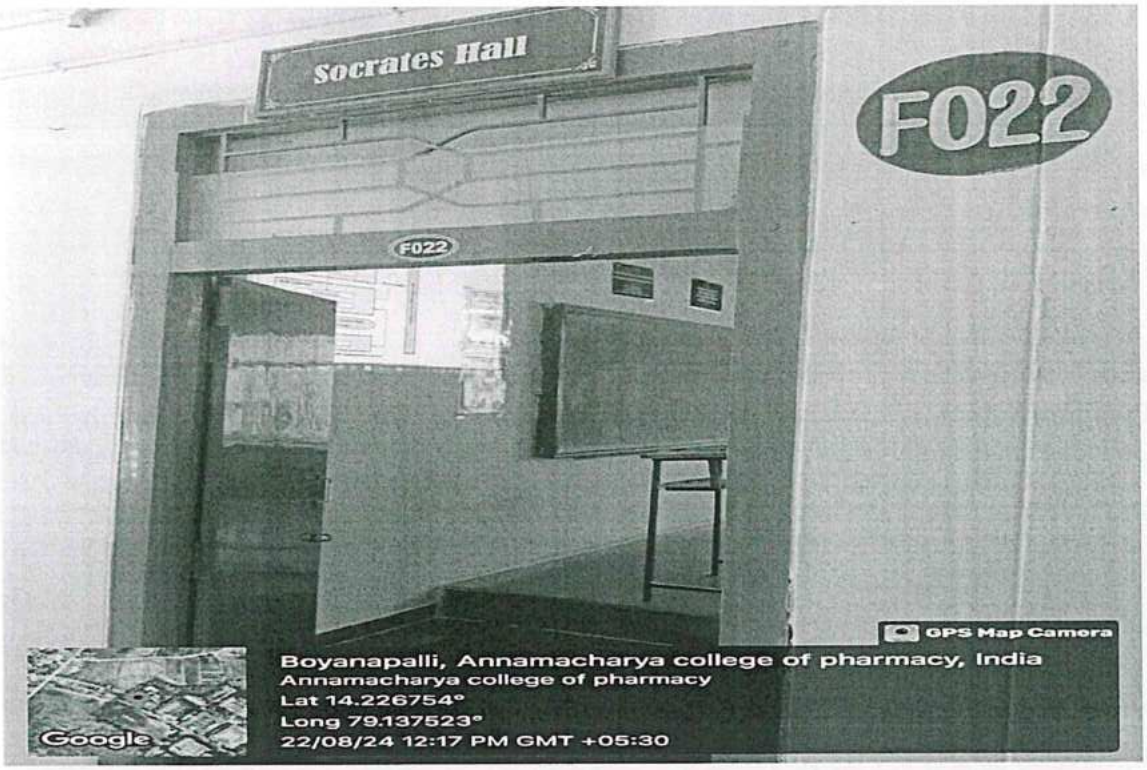

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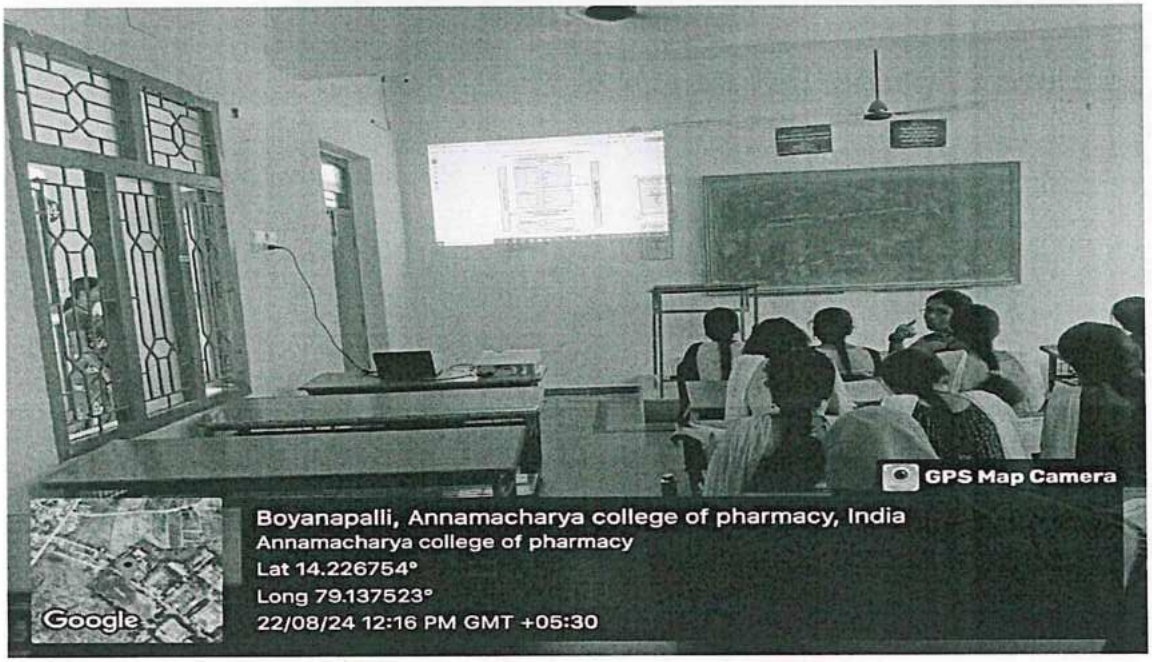

ICT Tool in F022LECTUREHAL 5

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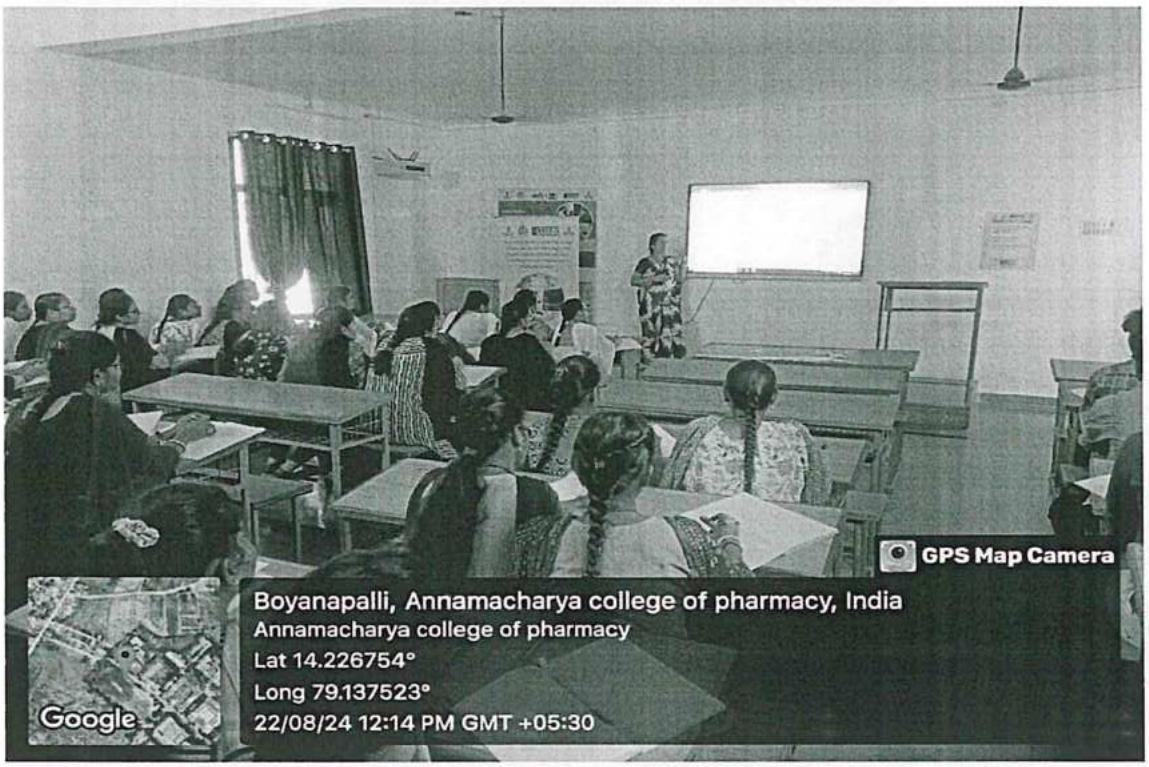
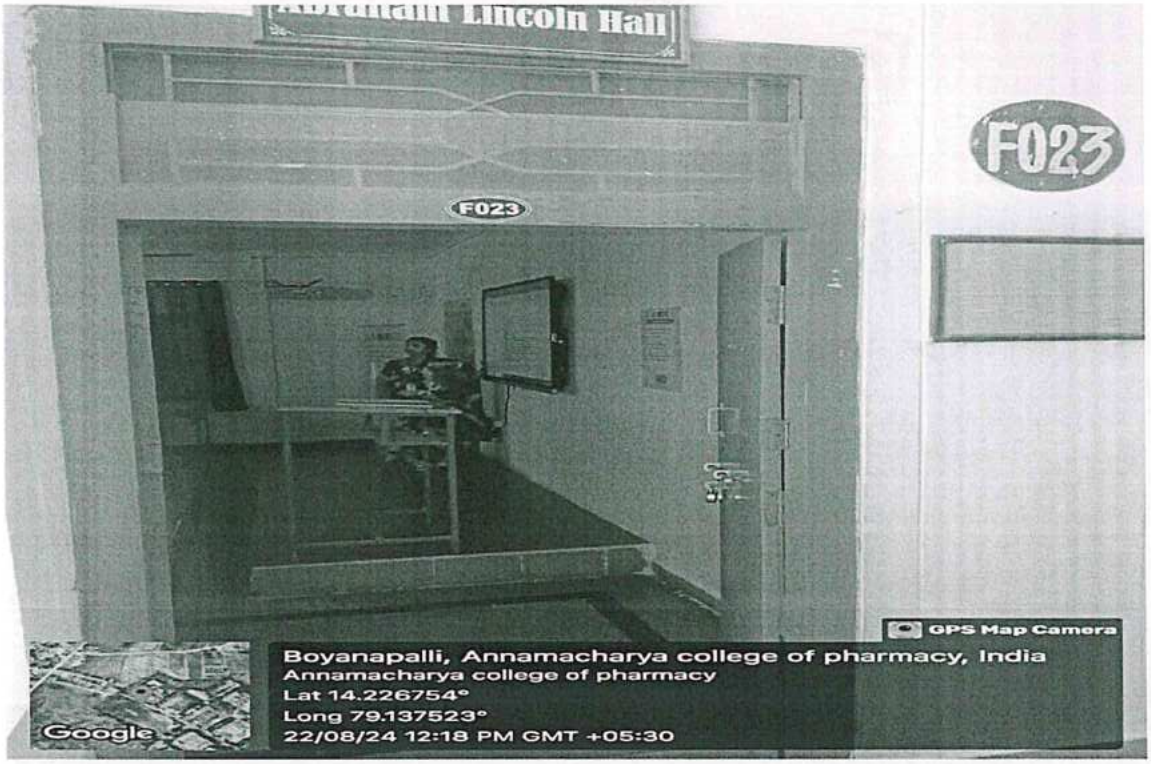
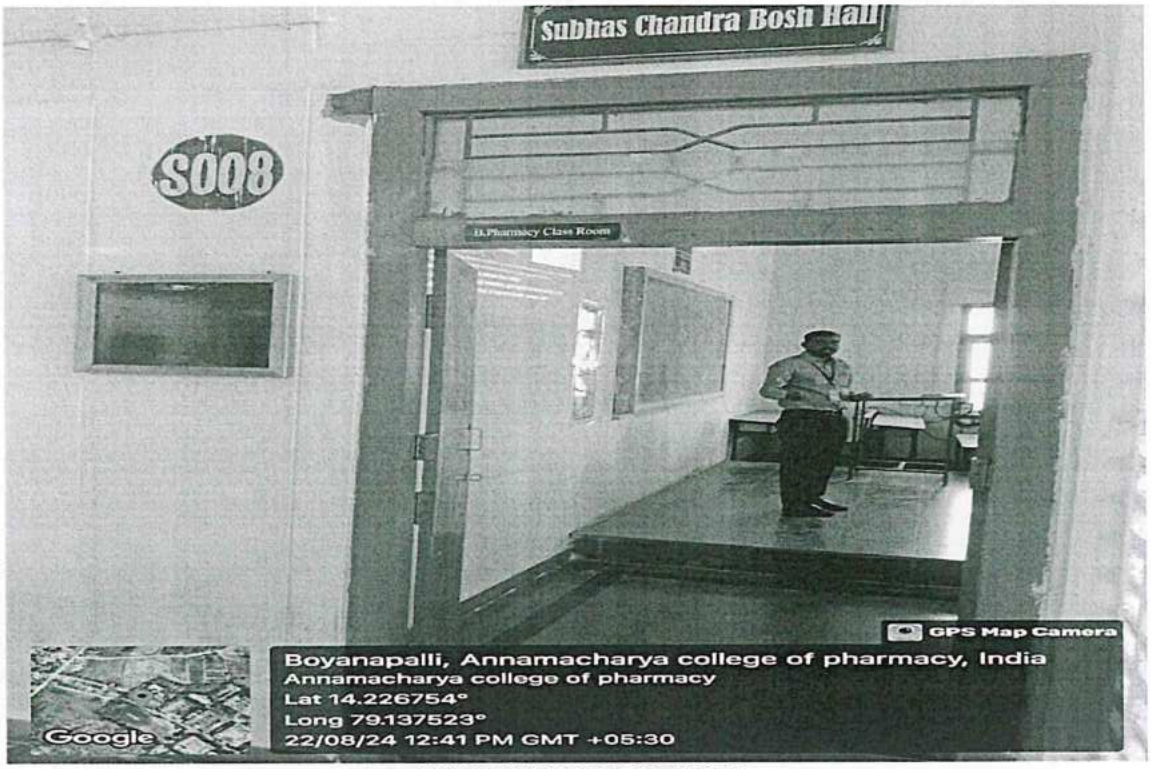


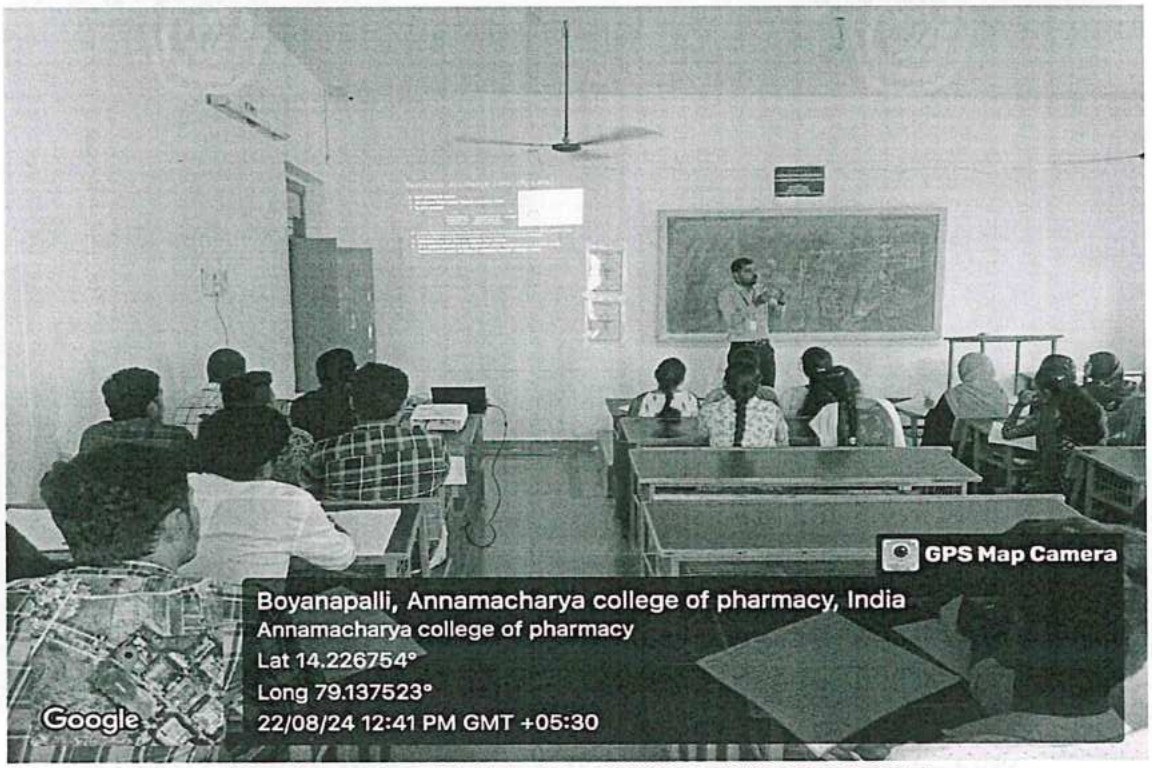


Faculty using Interactive Board in F023SMART CLASS ROOM

PRINCIPAL
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI - 516 126
...PET, ANNAMAYYA Dist. A.P



S008LECTUREHALL7



Faculty using ICT Tool in S008LECTUREHALL7

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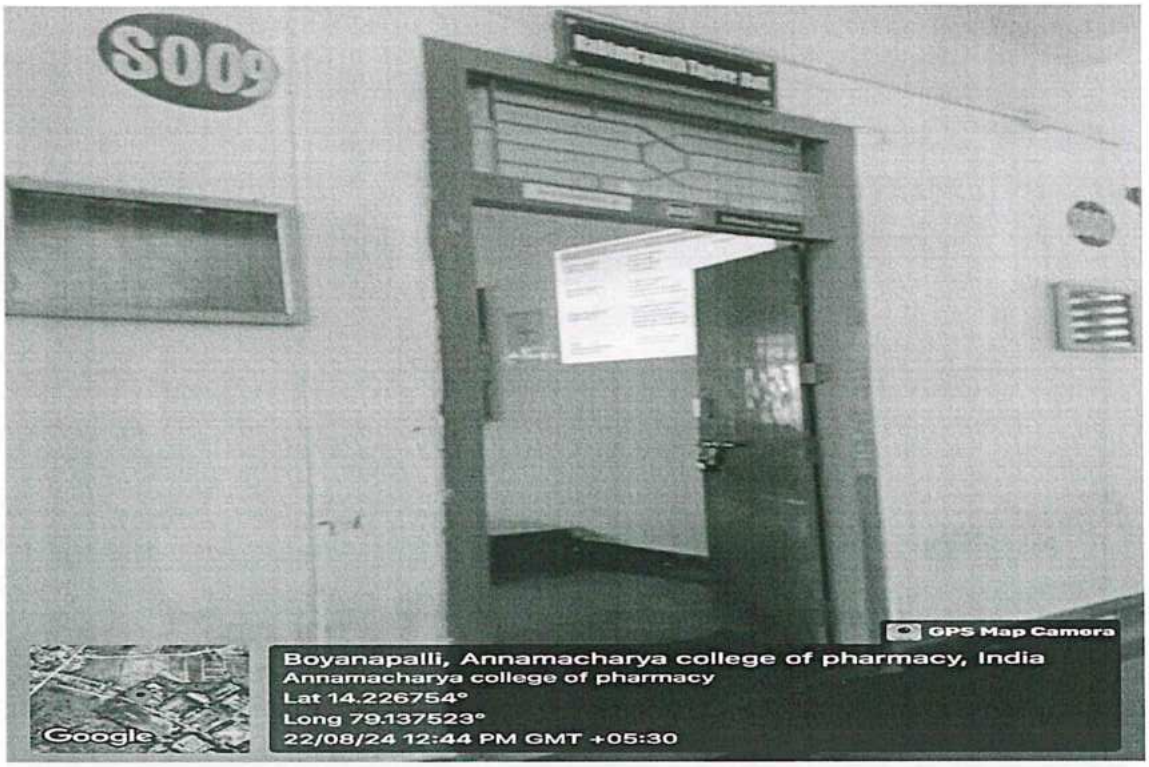

S009LECTUREHALL8

Students listening classes using ICT Tool in S009LECTUREHALL8

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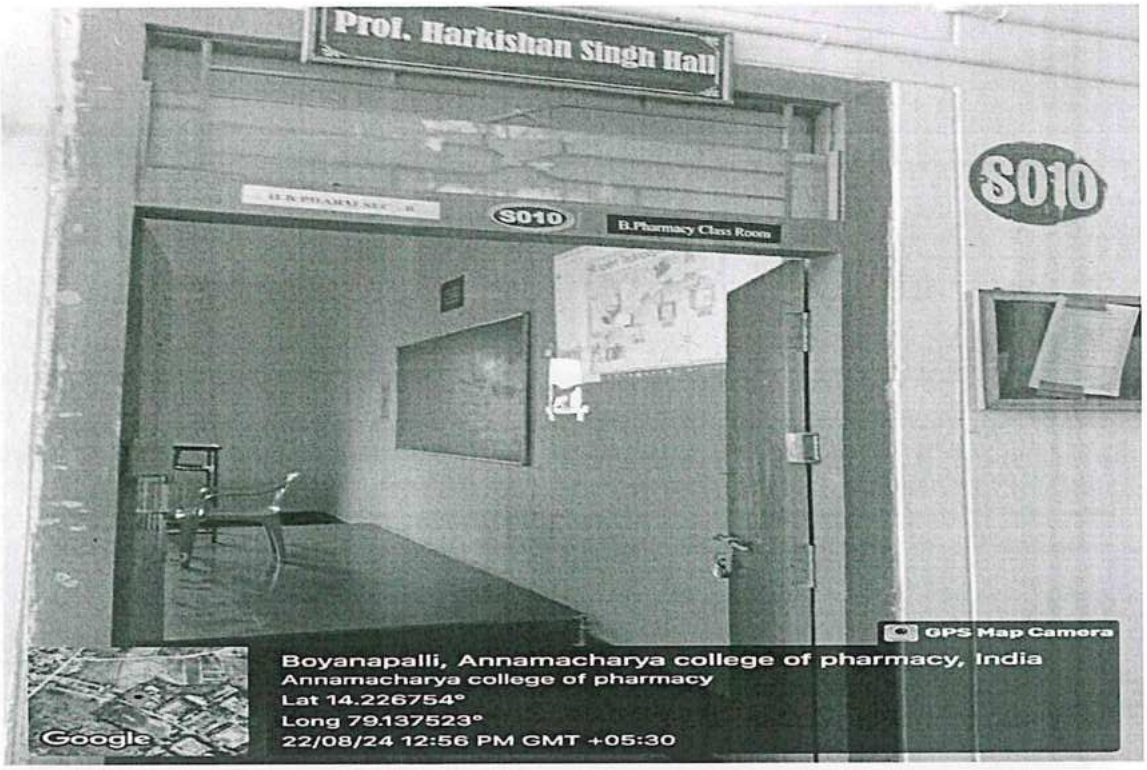
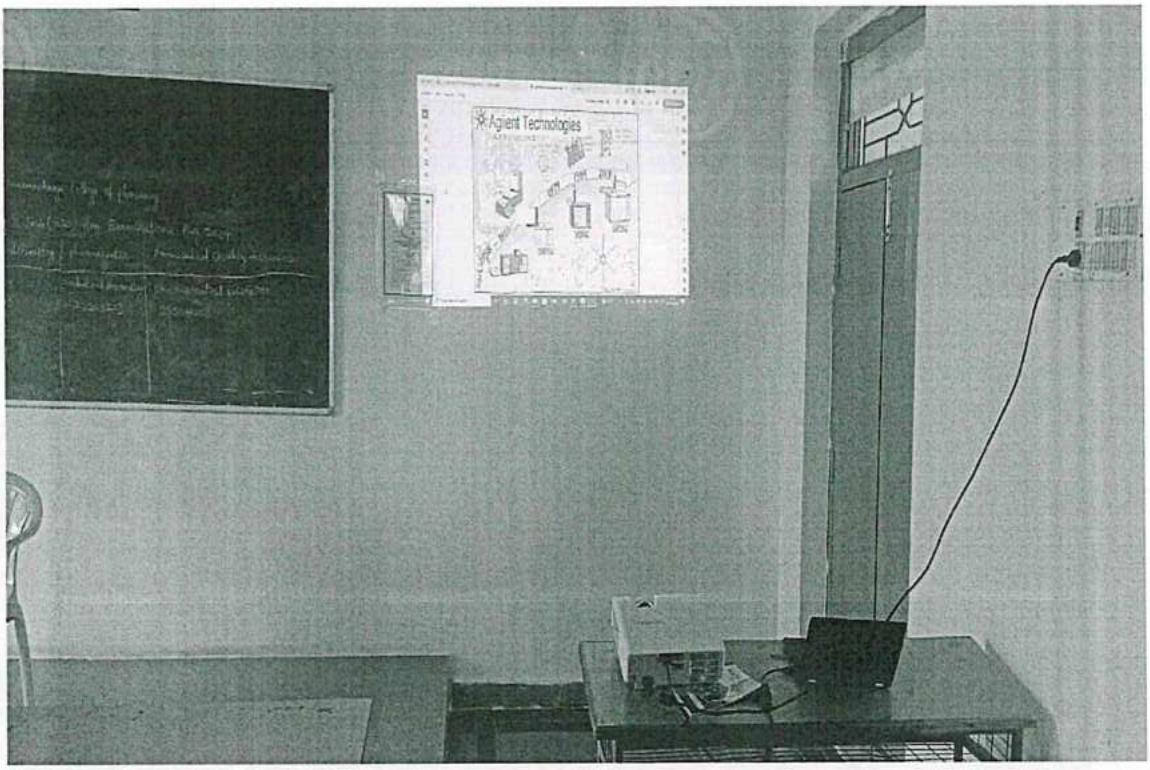


S010LECTUREHALL9



ICT Tool in S010LECTUREHALL9

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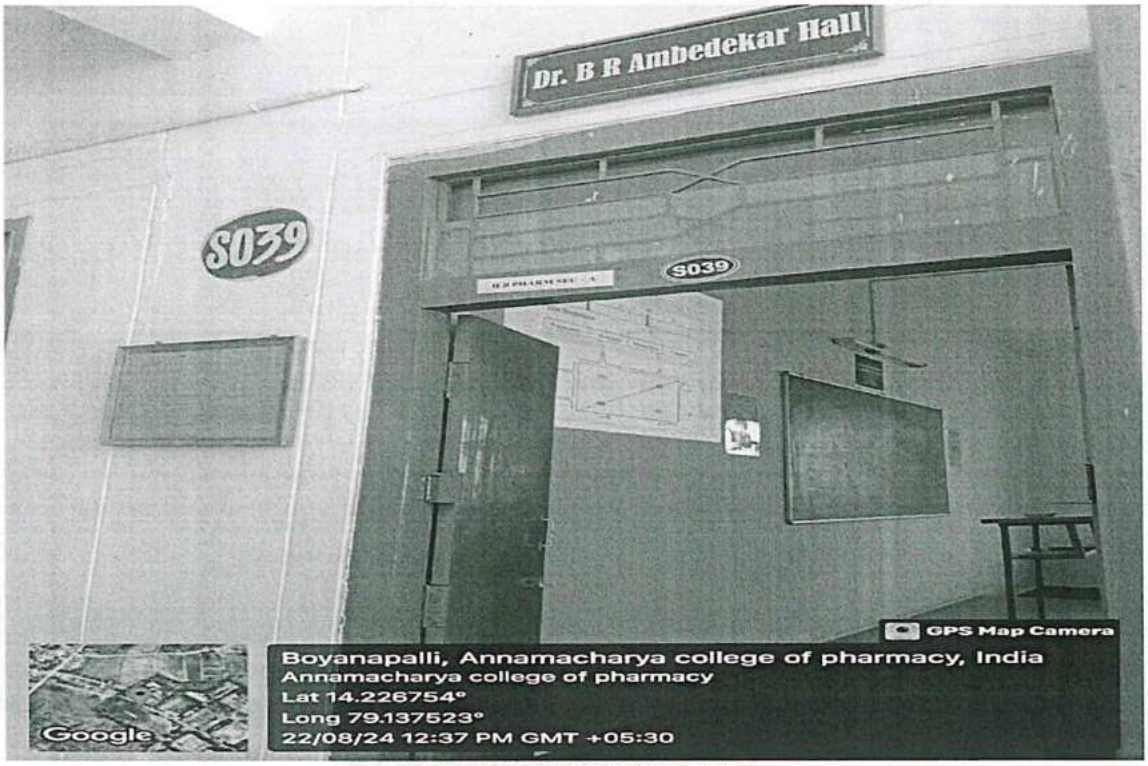

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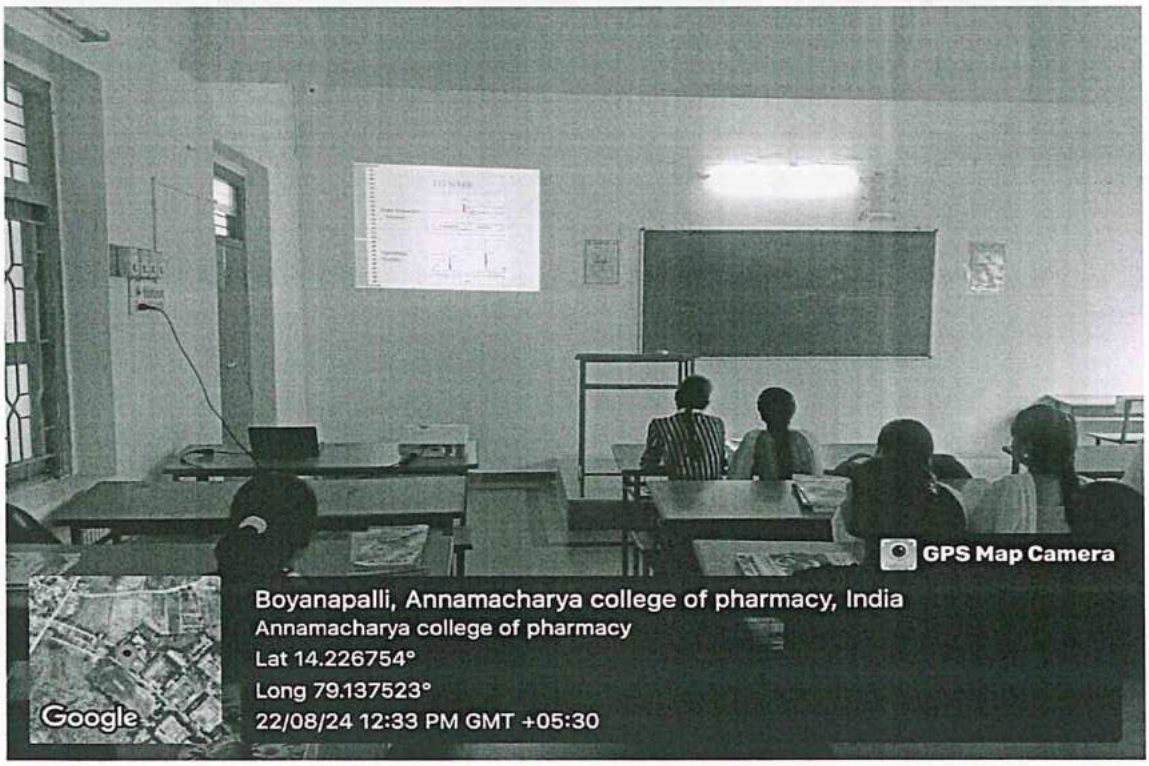

ICT tools in S039LECTUREHALL10

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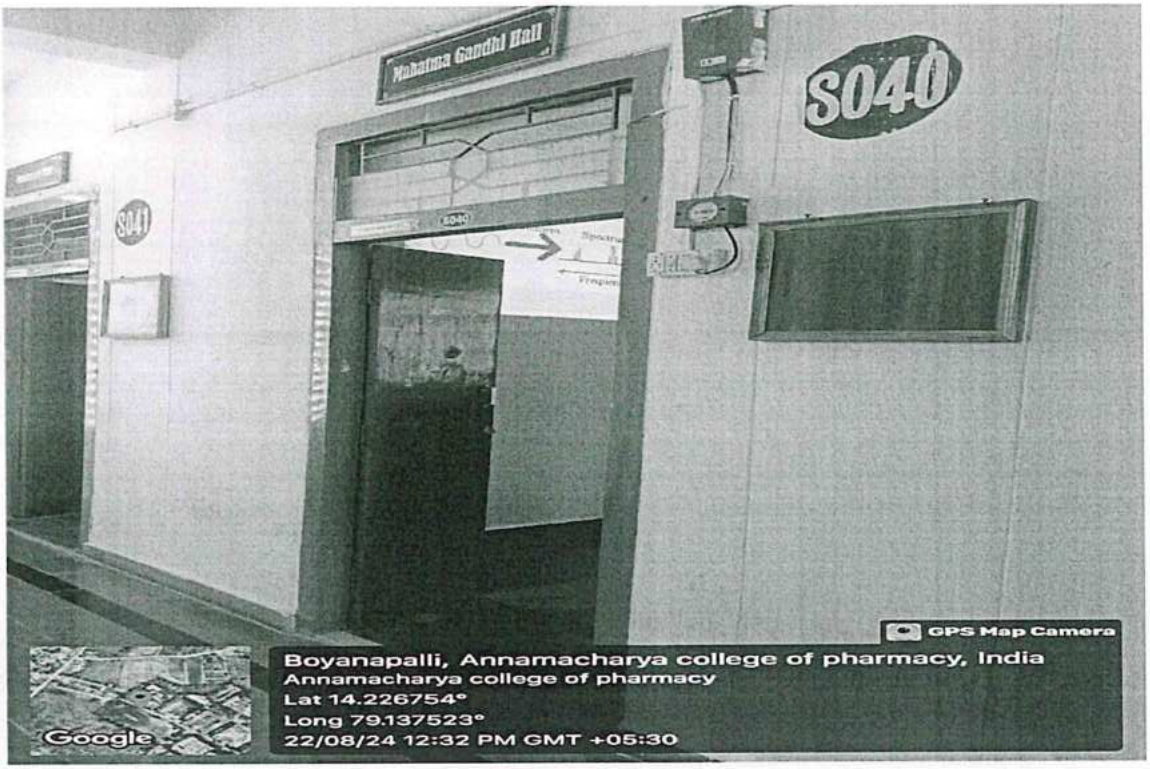
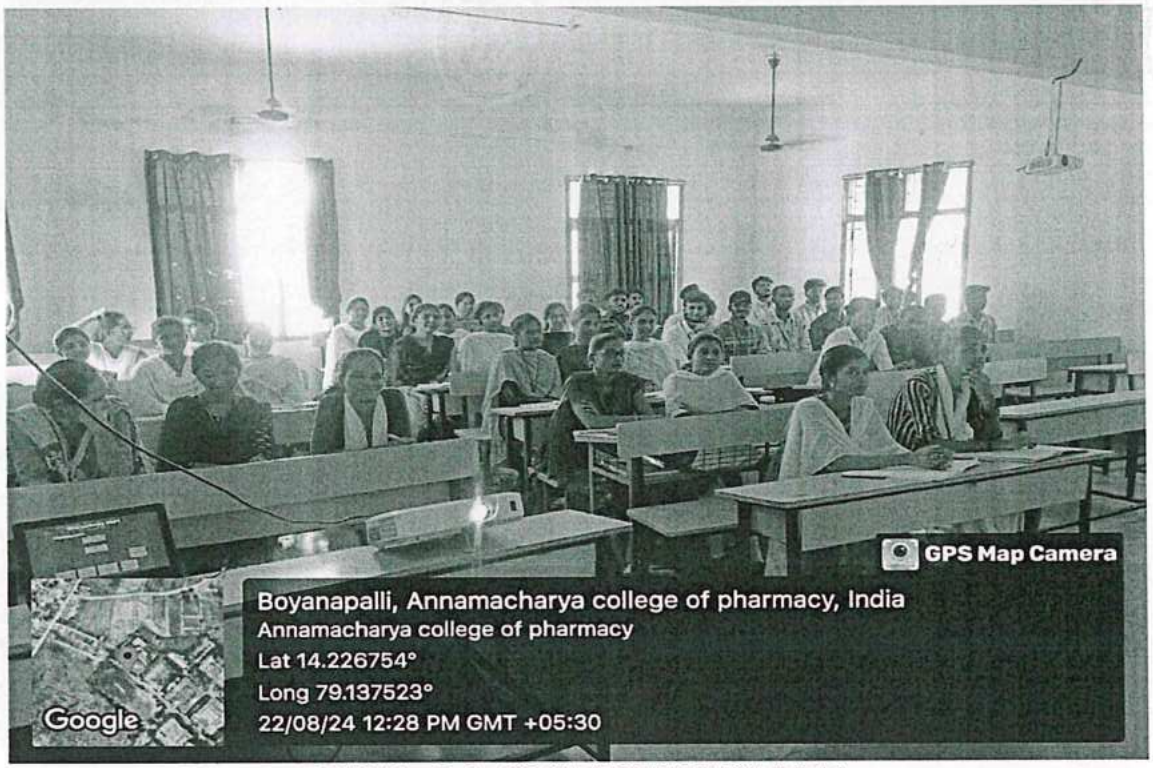


S040LECTUREHALL11



ICT Tools in S040LECTUREHALL11

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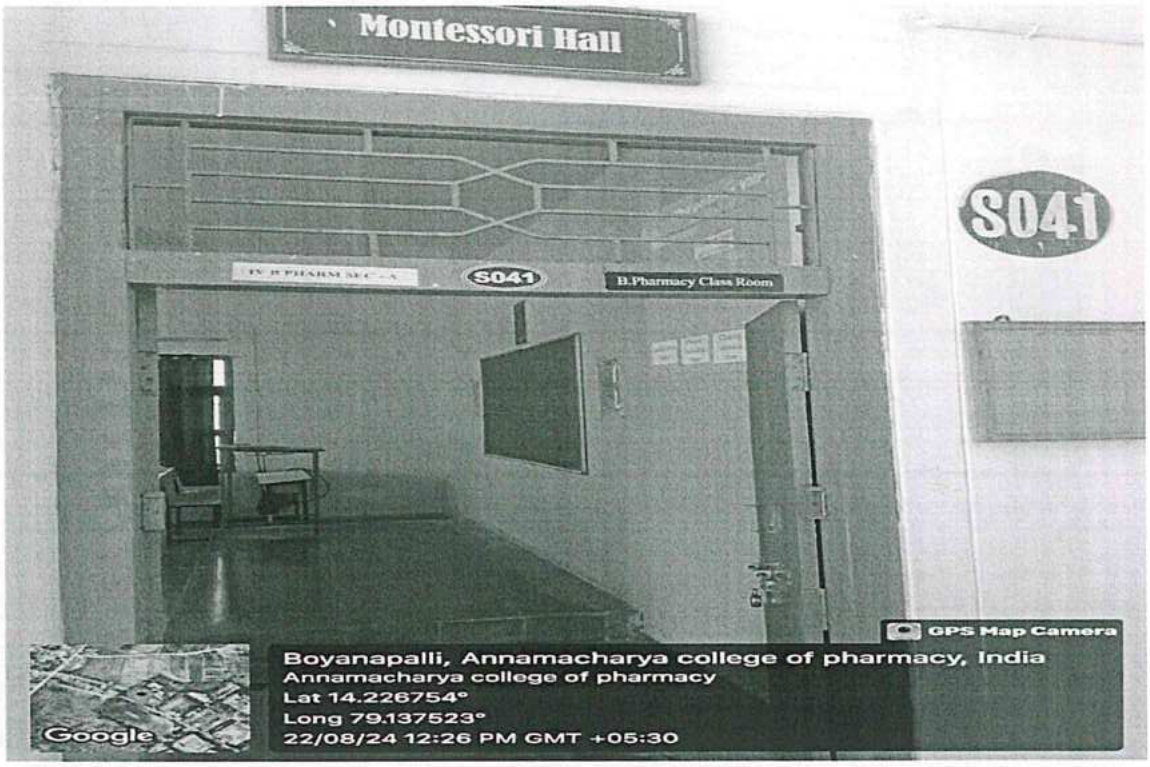
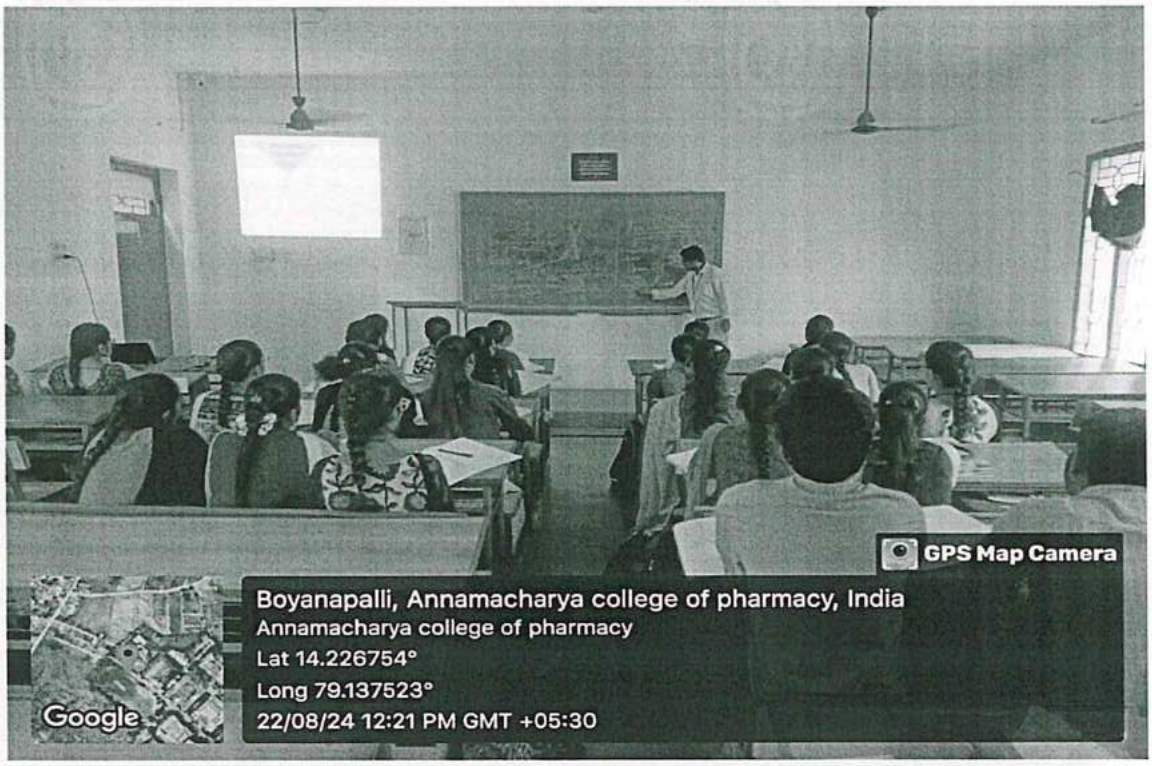


S041LECTUREHALL12



Faculty using ICT Tools in S041LECTUREHALL12

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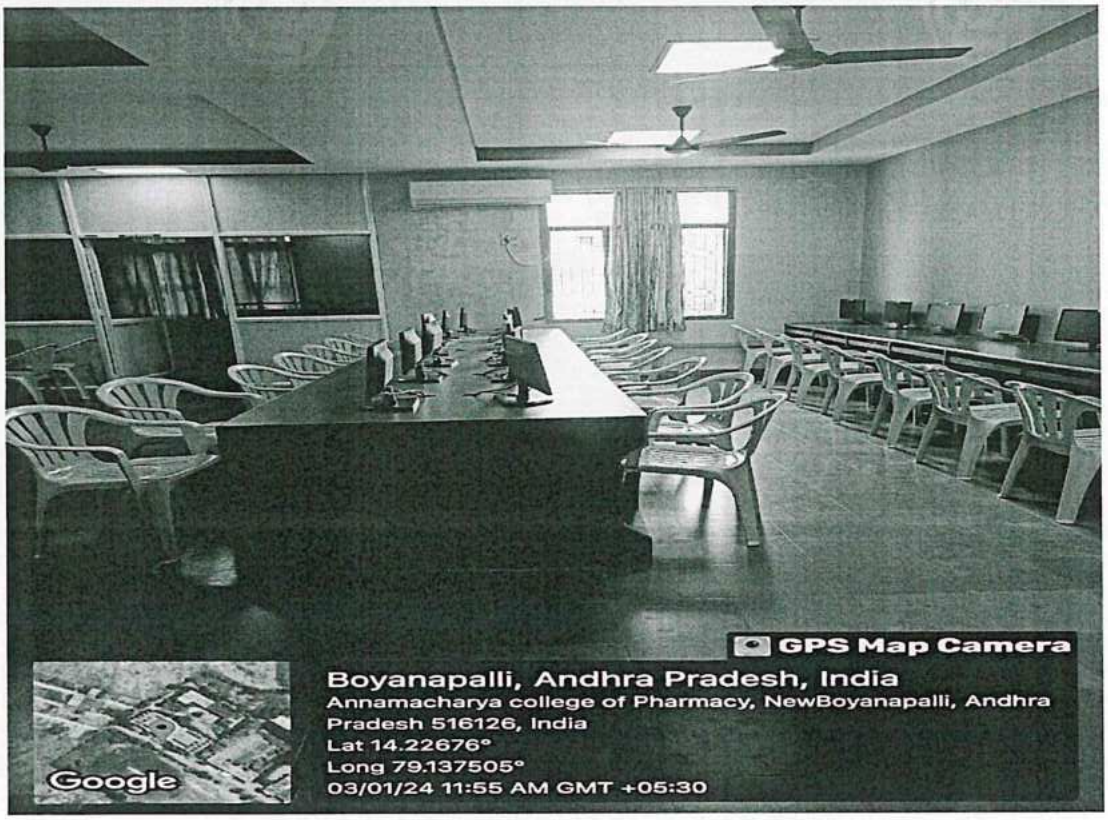
S004LECTUREHALL13(Out Side)



S004LECTUREHALL13 Advanced Communication Skills Lab(In Side)

PRINCIPAL
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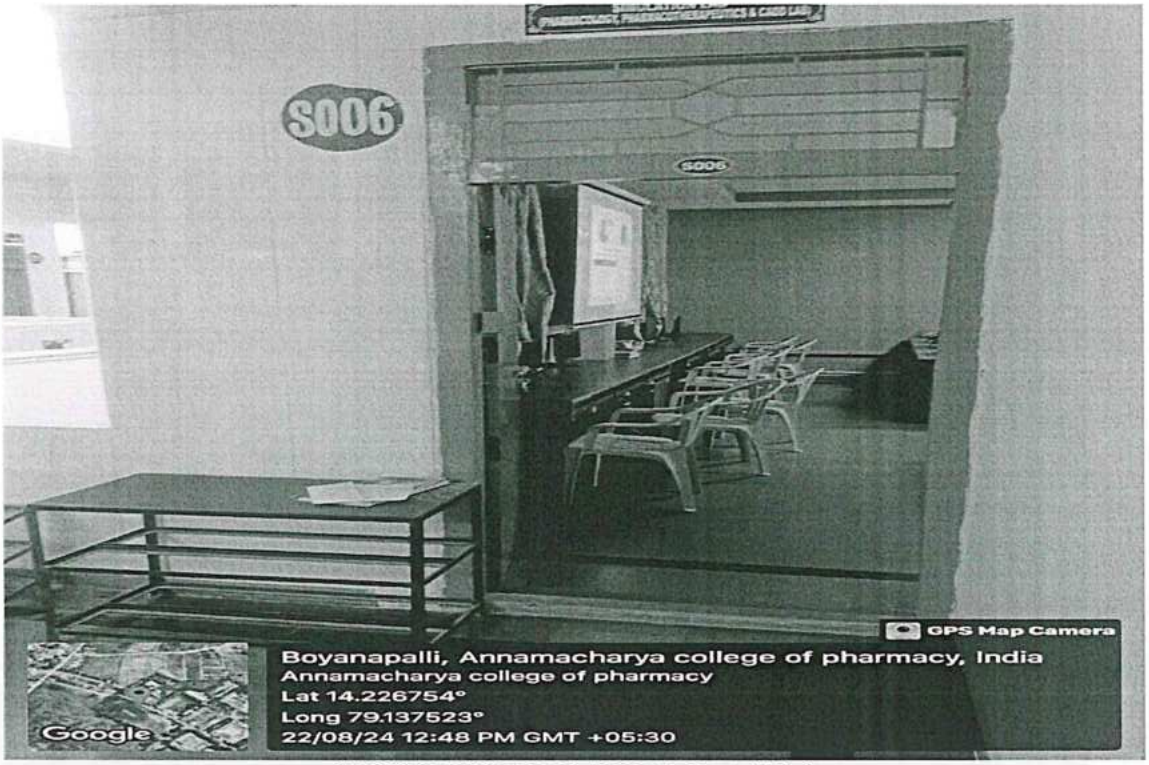
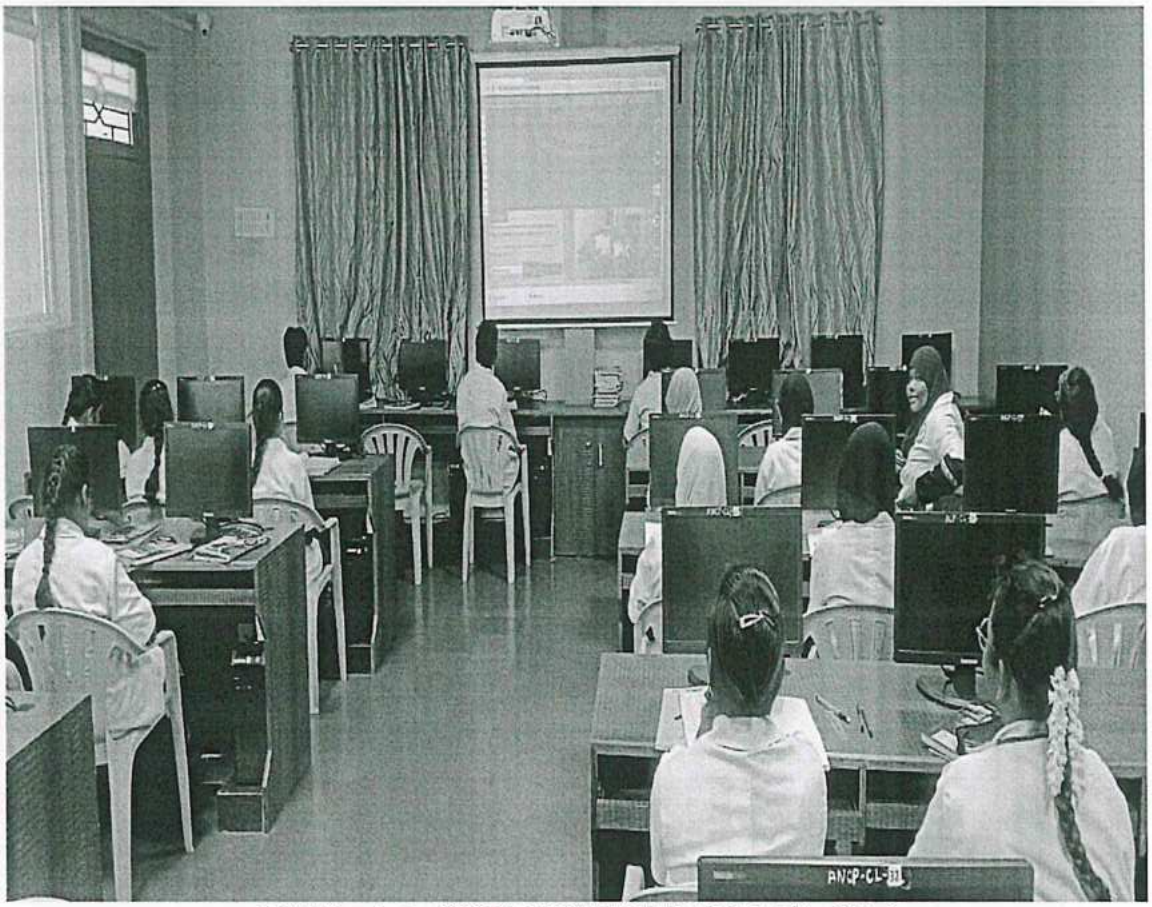


S006LECTUREHALL14(Out Side)



ICT Tools in S006LECTUREHALL14(In Side)

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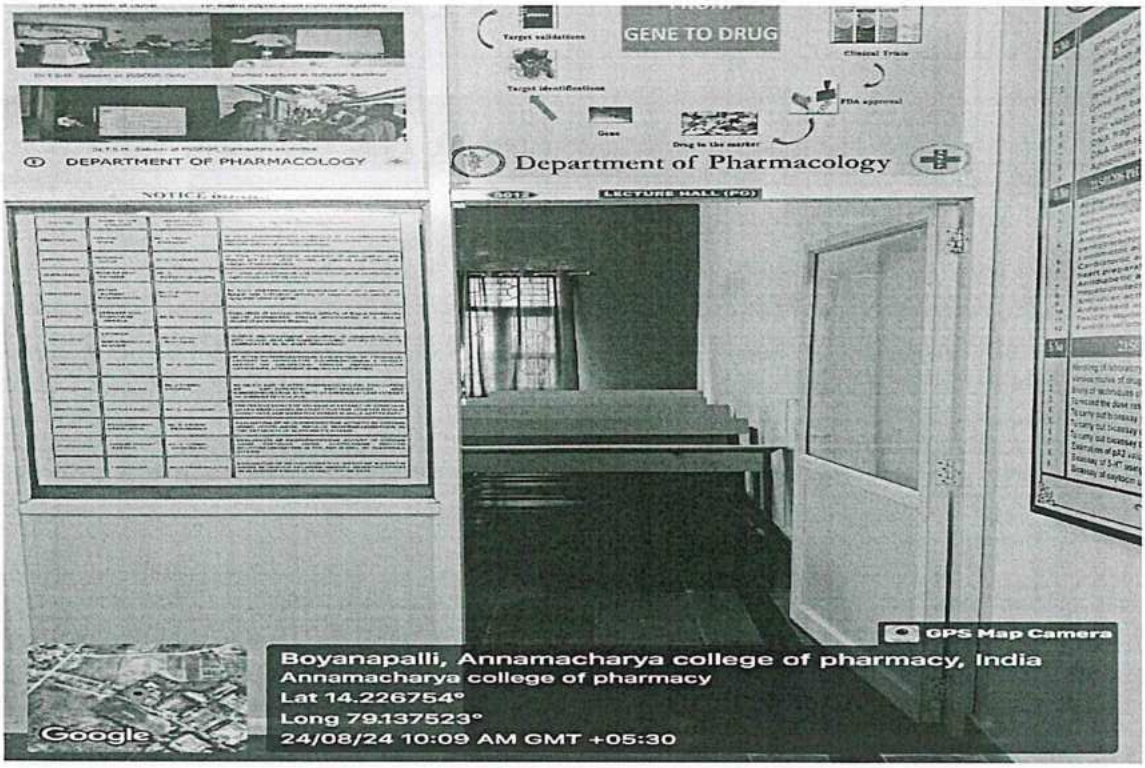
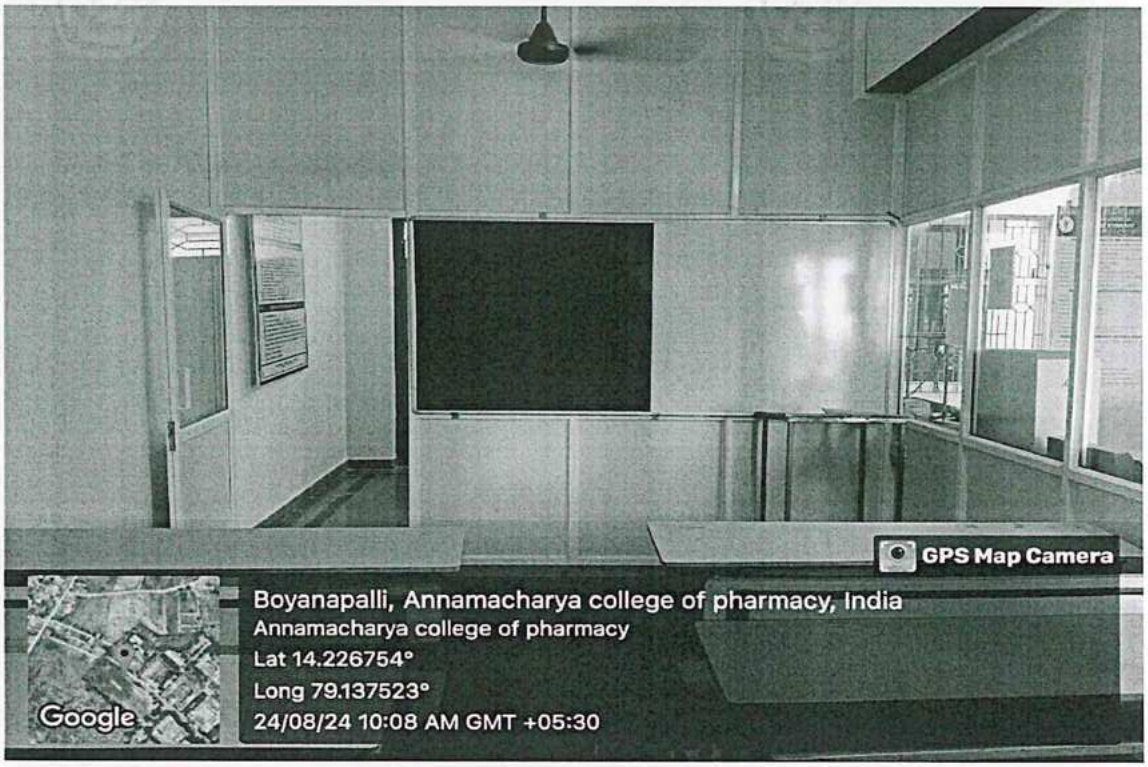


S012LECTUREHALL15(OutSide)



S012LECTUREHALL15(In Side)

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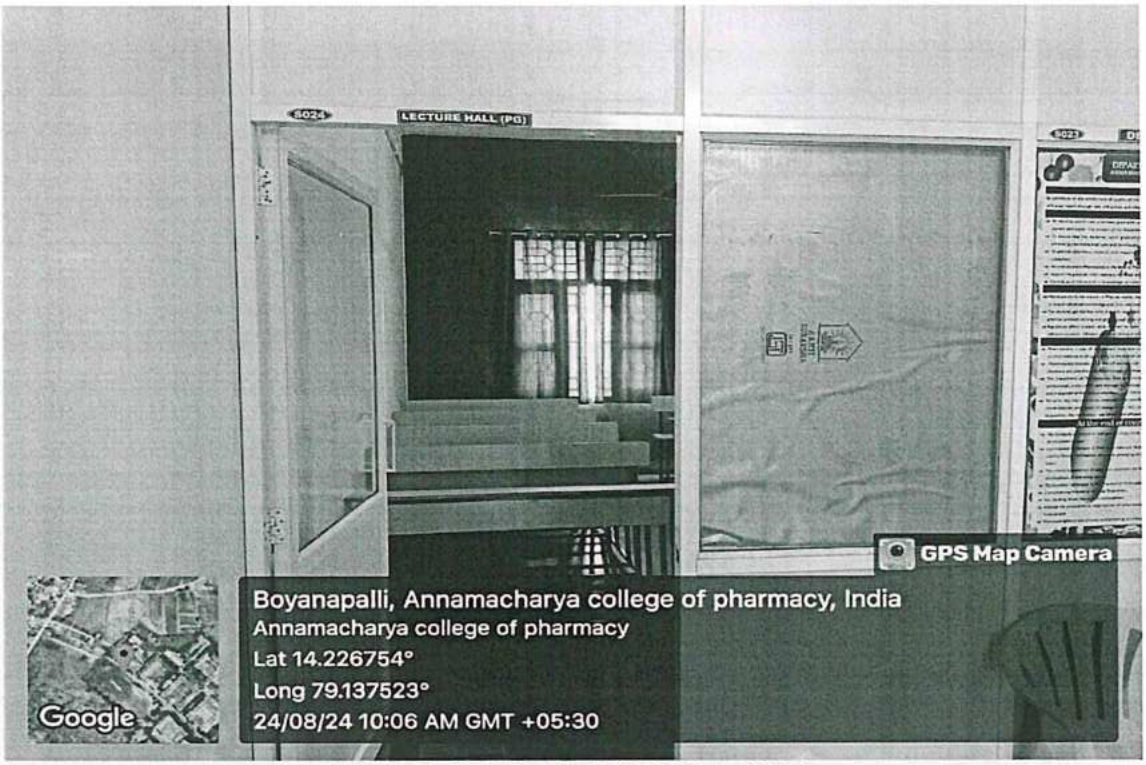
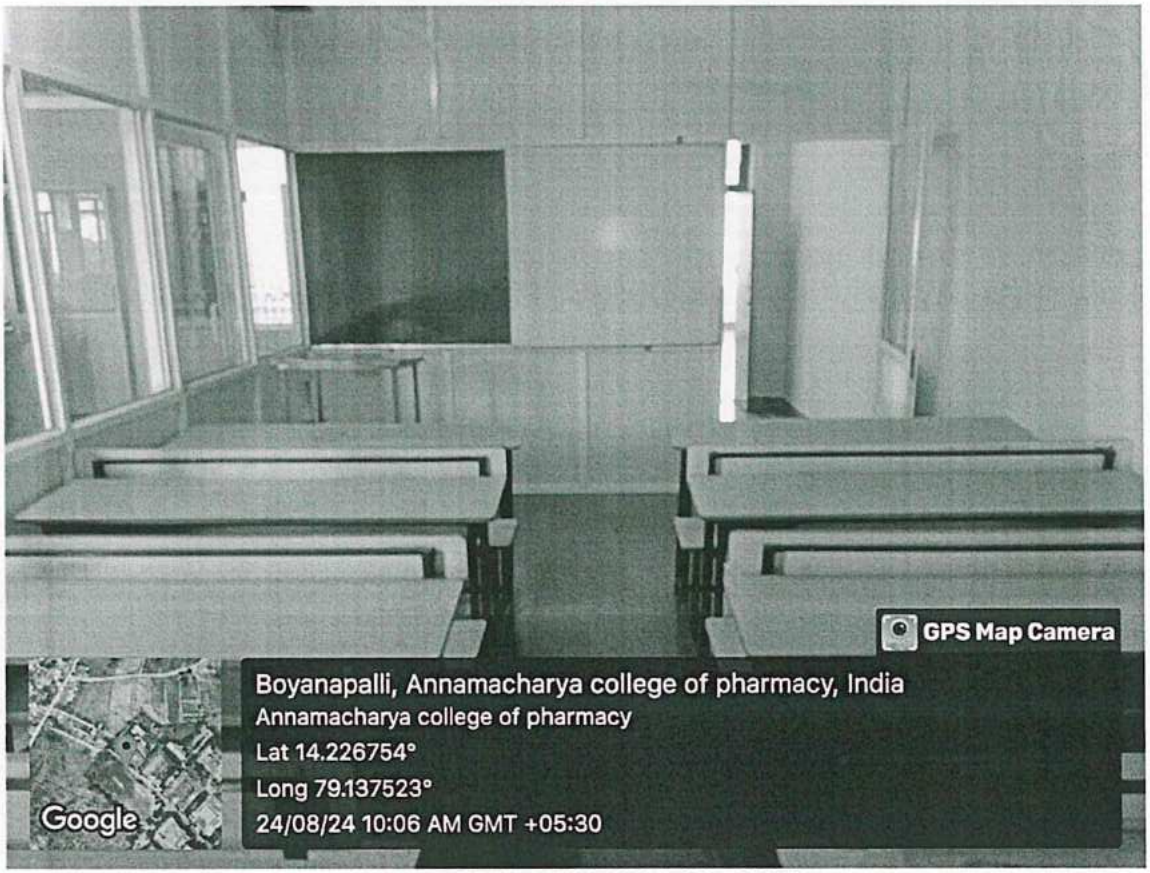


S024LECTUREHALL16(Out Side)



S024LECTUREHALL16(In Side)

PRINCIPAL
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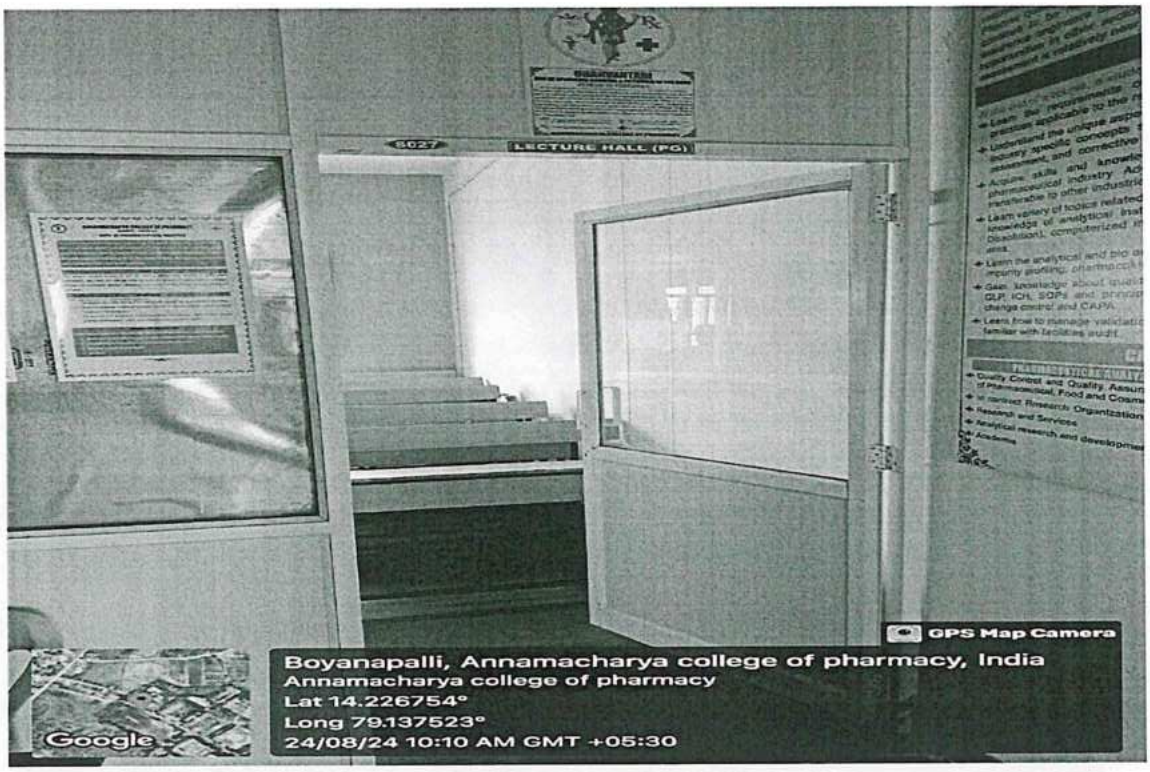
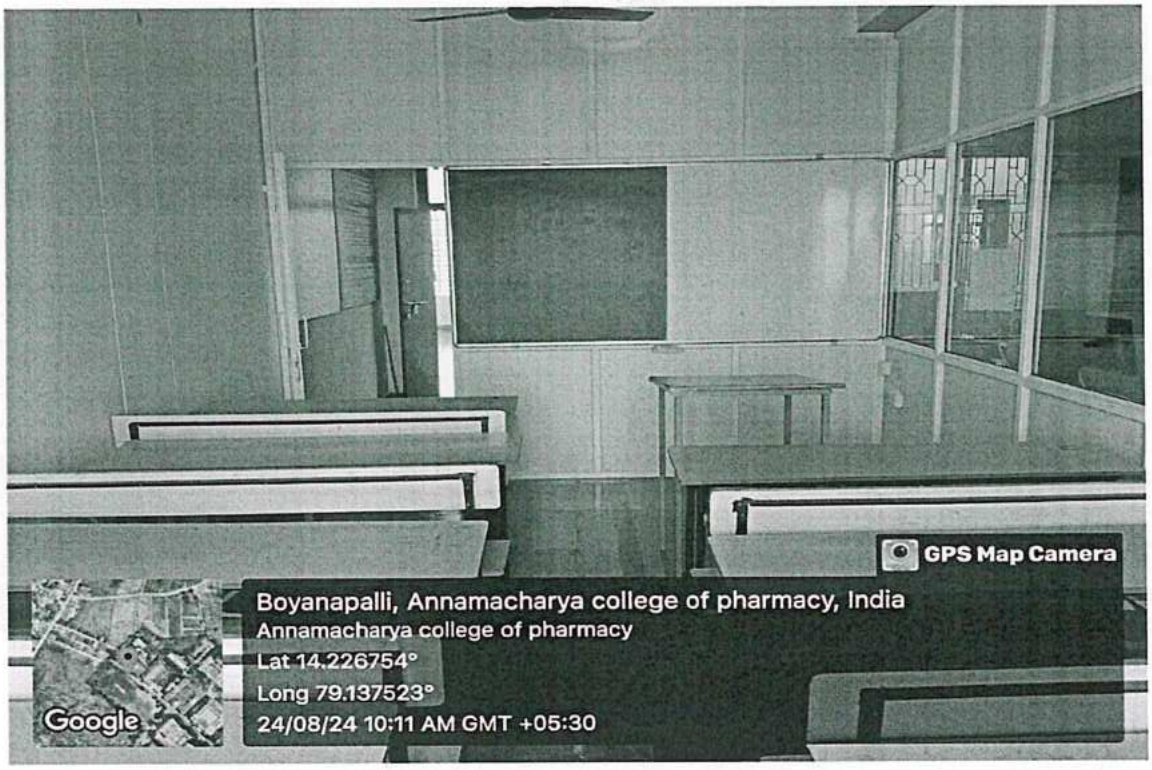


S027 LECTUREHALL17 (Out Side)



S027 LECTUREHALL17(In Side)

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NEW BOYANAPALLI - 516 126
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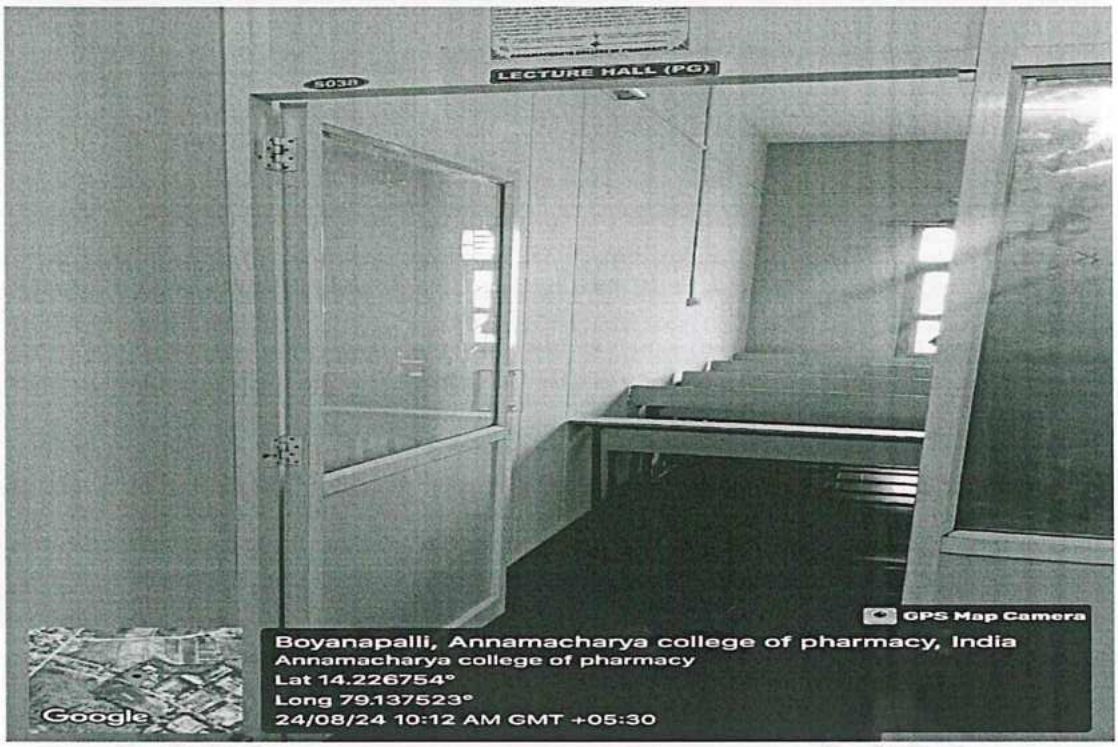
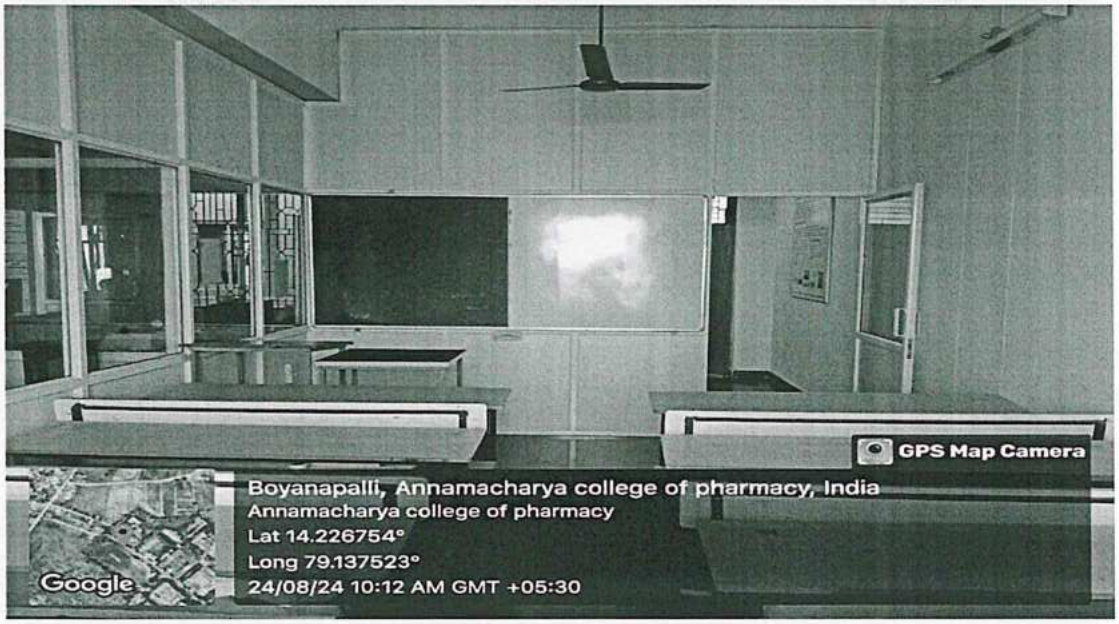


S038 LECTUREHALL 18(Out Side)



S038 LECTUREHALL 18(In Side)

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NEW BOYANAPALLI - 516 126
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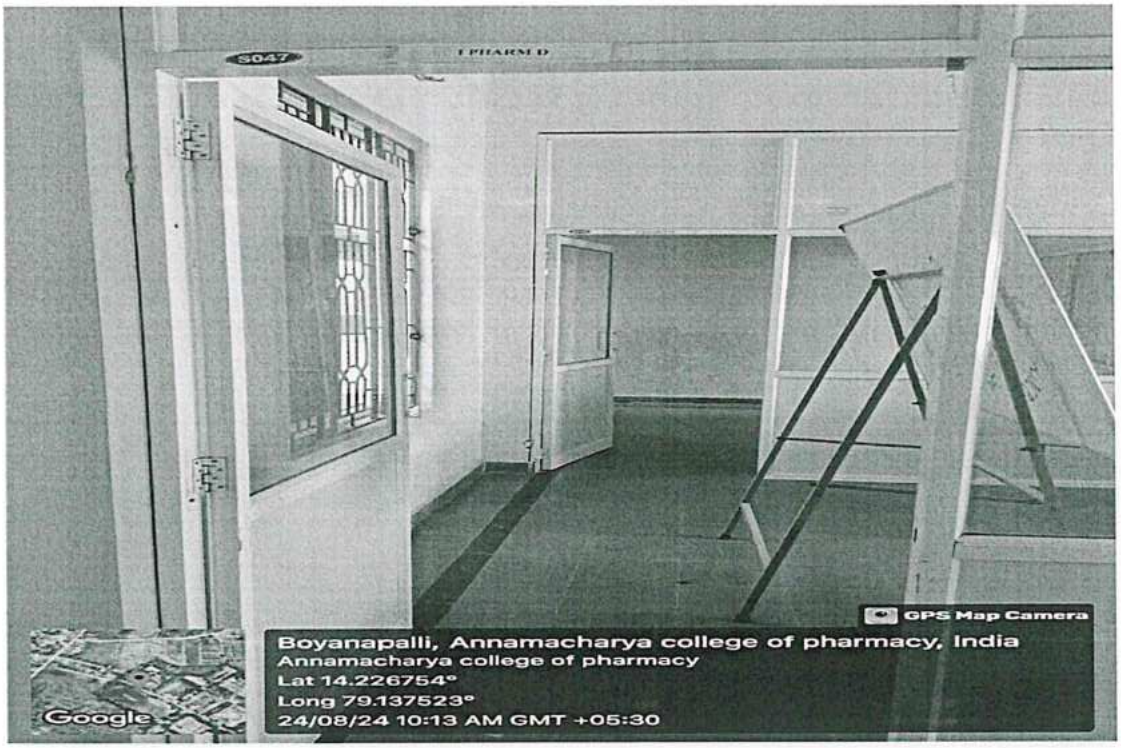
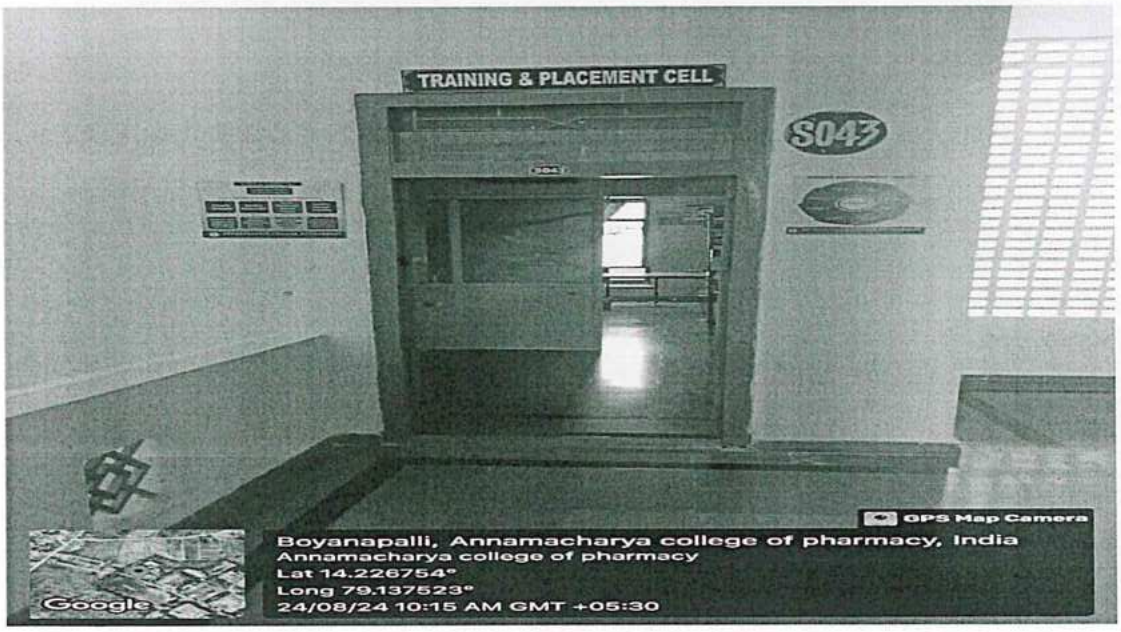


S047 LECTUREHALL 19



S043LECTUREHALL20

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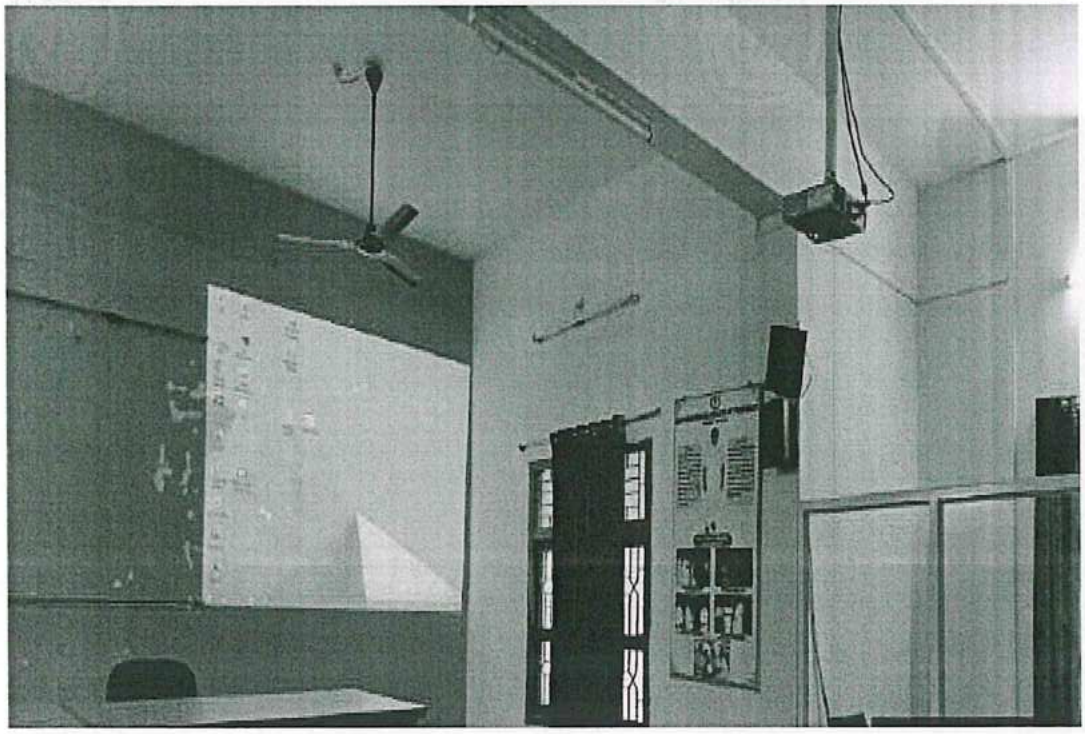
G030 SEMINARHALL 21(Out Side)



ICT Tools in G030 SEMINARHALL 21(IN Side)

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DIGITAL LIBRARY

LIST OF REMOTE ACCESS TO E-RESOURCES

1. NDLI- https://ndl.iitkgp.ac.in
2. SWAYAM NPTEL - https://swayam.gov.in
3. Pdf Drive net - https://www.pdfdrive.com/
4. eShodhganga - https://shodhganga.inflibnet.ac.in/
5. eShodhsindhu - https://ess.inflibnet.ac.in/
6. Open Access Theses and Dissertations - https://oatd.org
7. Directory of Open Access Books - https://www.doabooks.org/
8. Directory of Open Access Journal - https://doaj.org
9. Project Gutenberg - https://www.gutenberg.org/
10. Everyone Academy - https://everyonepharma.blogspot.com/
11. Internet Archive - https://archive.org/
12. NSDL - https://nsdl.oercommons.org/

SUBSCRIPTION TO E-RESOURCES

S. No.	E-Resource	Link
1.	e – journals	https://ancpap.in/library/ejournals
2.	e-books	https://ancpap.in/library/ebooks
3.	e-ShodhSindhu	https://ancpap.in/library/e-ShodhSindhu
4.	Shodhganga	https://ancpap.in/library/Shodhganga
5.	Databases	https://ancpap.in/library/databases

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LIST OF E-VIDEOS (DOWNLOADED)

S. No.	Name of the E-Video downloaded
1.	Analytical technologies in biotechnology
2.	Animal physiology
3.	Enzyme science and engineering
4.	Fundamentals of biology and biotechnology
5.	Streaming process
6.	Advanced metallurgical thermodynamics
7.	Nanostructure materials and properties
8.	Nanostructures and nonmaterial characteristics
9.	Group discussion and research
10.	Biochemistry of carbohydrates
11.	Enzymatic inhibition and line weaver Burker plots
12.	Introduction to biochemistry
13.	Amino acids
14.	Types of enzymes and their functions
15.	Working mechanism of enzymes
16.	Biotechnology principles
17.	Challenges in chemical engineering
18.	Chemical engineering a new era
19.	Crystal graphics
20.	Chemical engineering analysis
21.	Future technology and rise of nanotechnology
22.	Chromatography
23.	Differential pulse anodic stripping voltametry
24.	Flourescence spectrometer
25.	HPLC instrumentation
26.	HPLC theory
27.	Agarose gel electrophoresis
28.	Quadrapole mass spectrometer
29.	Atomic force microscopy
30.	Polyacryl amide gel electrophosis
31.	Mass spectrometry

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Utilizing E-Classrooms and ICT-enabled infrastructure enhances comprehension of subjects of interest

The faculty members frequently utilize these E-Classrooms. Moreover, they are employed to facilitate interactive sessions conducted by subject experts, enhancing ICT-enabled teaching and learning.

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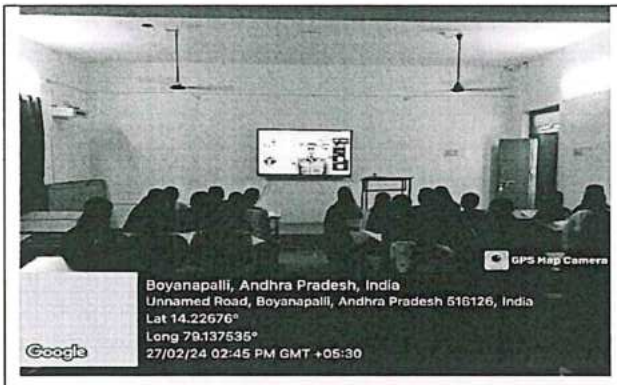
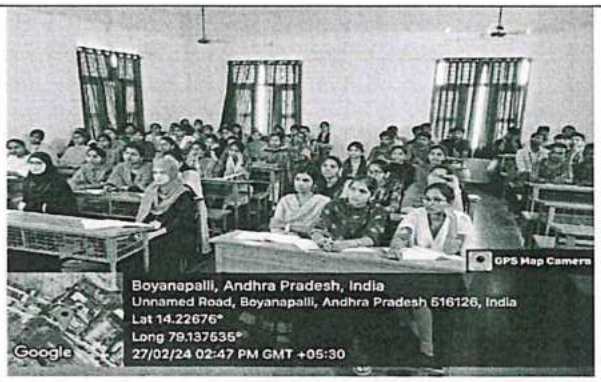
<td> 

E-Classroom</td>
<td> 

E-Classroom</td>
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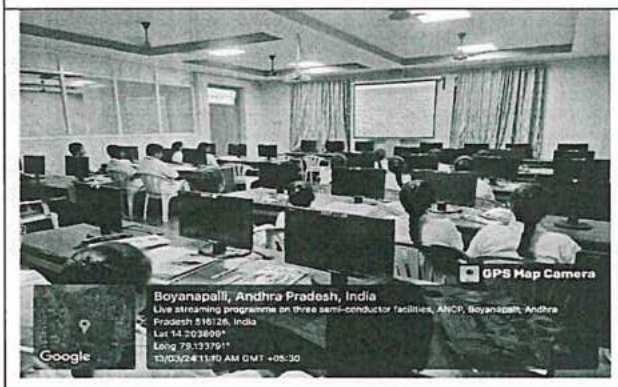
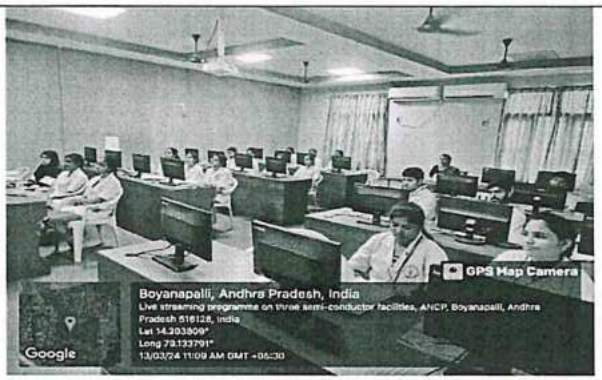
<td> 

Computer Laboratory</td>
<td> 

Computer Laboratory</td>
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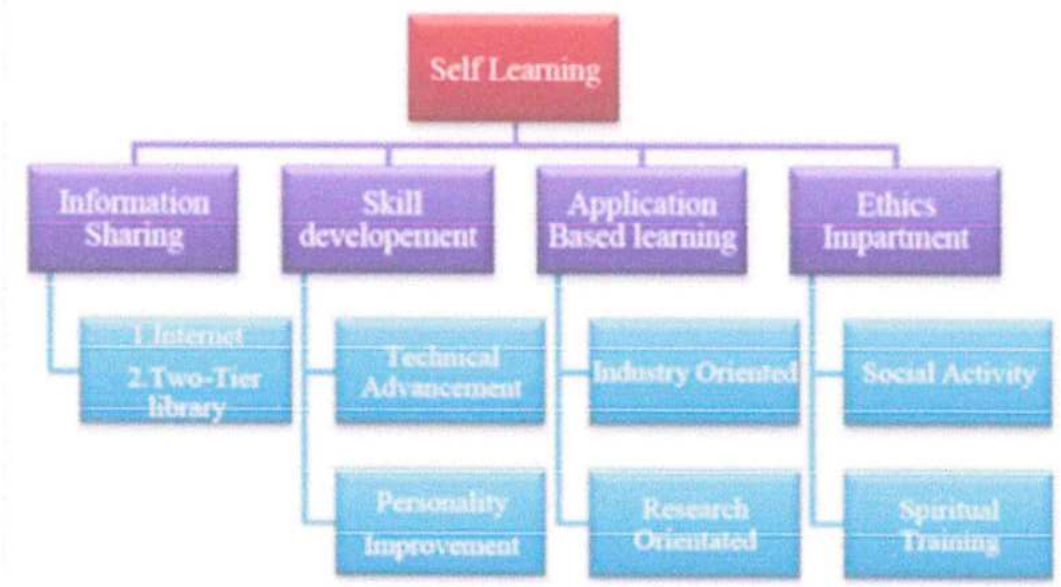
4.SELF LEARNING

Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the needs for another individual to teach it. For self-learning or learning beyond syllabus during the semesters we provide information sharing material and organize different types of activities like workshop, training, conferences, club activities, quiz etc. For these activities academic calendar has sufficient provisions and HOD is authorized to change in schedule with permission of respective authorities.

Scope of Self – Learning

- Assignments
- Professional bodies
- Web based learning
- Library
- Industrial visits



NPTEL:

Faculty members and students are motivated to take up online courses for their subjects from various eminent platforms like NPTEL.

The main objective of the National Programme on Technology Enhanced Learning (NPTEL) is to enhance the quality of science education in the country by developing content for undergraduate and postgraduate curricula using video and web-based courses. These courses cover the syllabi prescribed by universities and approved by AICTE.

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NPTEL Initiatives Courses NPTEL STARS Coordinators NPTEL Testimonials Help Videos More Log In

NPTEL > Local Chapter

SPOC Details | Course Wise | Toppers Details

ANNAMACHARYA COLLEGE OF PHARMACY, RAJAMPET
NEW BOYANA PALLI, RAJAMPET-516126, A.P, INDIA
Url: https://ancpap.in/

Image of the professor

- SPOC Name -DR. P. DWARAKANADHA REDDY
- Designation -PROFESSOR & HOD
- Partnering since -2019-11-19
- College Id -3308 Institute Type -HEALTH SCIENCE INSTITUTION/ MEDICAL

NPTEL Initiatives Courses NPTEL STARS Coordinators NPTEL Testimonials Help Videos More Log In

NPTEL > Local Chapter

SPOC Details | Course Wise | Toppers Details

Sr No	Course Name	Present	Gold	Elite	Silver	Sucessful	Participation
1	Application of Spectroscopic Methods in Molecular Structure Determination	1	0	0	0	1	0

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VALIKALA VISWANATH

for successfully completing the course

Drug Delivery: Principles and Engineering

with a consolidated score of 48 %

Online Assignments	15.91/25	Proctored Exam	31.79/75

Total number of candidates certified in this course: 337

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jul-Oct 2023
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore

Indian Institute of Science Bangalore

swayam

Roll No: NPTEL23BT37S738401576 To verify the certificate

No. of credits recommended: 3 or 4

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SWAYAM ONLINE COURSE CERTIFICATION

Roll No. : AP16010365

This certificate is awarded to
Golla Venkata Sowmyasree
for successfully completing the 4 credit course
Psychology of Development and Learning
with a consolidated score of 59%
from the evaluation based on continuous online assessments and the proctored examination held in month of October 2023.

This course was offered by Dr. A .Hameed, of University of Calicut

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	29	100	59

J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi

CEC

Dr. Jos. T. Puthur
Director, IQAC
University of Calicut

Issued On : 30/11/2023

To validate and check scores: https://swayam.gov.in

SWAYAM ONLINE COURSE CERTIFICATION

Roll No. : 1113130213

This certificate is awarded to
Golla Venkata Sowmyasree
for successfully completing the 4 credit course
Functional Foods and Nutraceuticals
with a consolidated score of 85%
from the evaluation based on continuous online assessments and the proctored examination held in month of August 2022.

This course was offered by Dr. Rekha Sharma of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	55	100	85

J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi

CEC

Dr. Raju Hiwase
Registrar
Rashtrasant Tukadoji Maharaj
Nagpur University

Issued On : 04/11/2022

To validate and check scores: https://swayam.gov.in

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NEW BOYANAPALLI - 516 126
RAJAMPET, ANNAMAYYA Dist. A.P

b. LIST OF STUDENTS DONE NPTEL COURSE

S.No.	Name of the Student	Course
1	Shaik Muneera	Experimental biotechnology
2	Nagamani somisetty	Experimental biotechnology
3	Arveti Divya vani	Experimental biotechnology
4	Meesala Anudeepika	Experimental biotechnology

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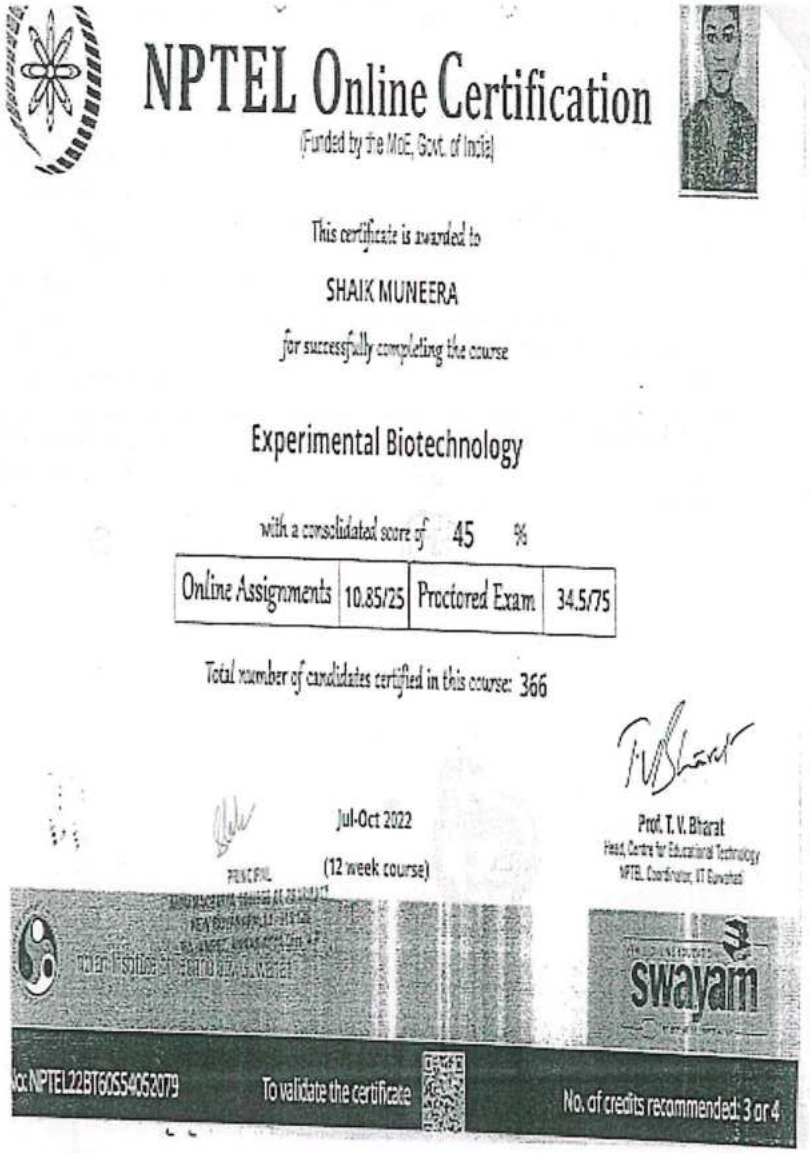

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SHAIK MUNEERA

for successfully completing the course

Experimental Biotechnology

with a consolidated score of 45 %

Online Assignments	10.85/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: 366

Jul-Oct 2022

(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

PRINCIPAL

swayam

No: NPTEL22BT60S54052079 To validate the certificate No. of credits recommended: 3 or 4

Faculty members and students are motivated to take up online courses for their subjects from various eminent platforms like EDX

EDX, UGC-MMTTC

The main objective of th National Programme on Technology Enhanced Learning (NPTEL) is to enhance the quality of engineering and science education in the country by developing content for undergraduate and postgraduate curricula using video and web-based courses. These courses cover the syllabi prescribed by universities and approved by AICTE. **A sample certificate is attached herewith**

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ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI - 516 126
RAJAMPET, ANNAMAYYA Dist. A.P

FACULTY UNDERGONE TRAINING IN EDX IN 2023-2024

S.NO	Type of activity	Name of the Faculty	Title of the Event	Year & Date	VENUE
1.	Training(Edx)	V.Chinnikrishnaiah	Analyzing and visualizing data	20-05-2024	Davidson college
2.	Training(Edx)	S.Ashok	Introduction to food and health	21-05-2024	Standford medicine
3.	Training(Edx)	Dr.V.Viswanath	Introduction to food and health	21-05-2024	Standford medicine
4.	Training(Edx)	G. Venkata Sowmyasree	Introduction to food and health	21-05-2024	Standford medicine
5.	Training(Edx)	K.Nagalakshmi	Introduction to food and health	21-05-2024	Standford medicine
6.	Training (Edx)	Dr.P.Anitha	Introduction to food and health	23-05-2024	Stanford medicine
7.	Training (Edx)	Dr.M.Pramod kumar	Introduction to food and health	23-05-2024	Stanford medicine
8.	Training(Edx)	V.Chinnikrishnaiah	Getting started with data analytics on AWS	23-05-2024	Amazon web services
9.	Webinar	G. Venkata Sowmyasree	Exploring Pharmacovigilance Unraveling latest trends and career pathways	24-05-2024	Sri sivani college of pharmacy
10.	Training(Edx)	Dr.V.Viswanath	Prescription drug regulation cost and access: current controversies in context	25-05-2024	Harvard
11.	Training(Edx)	G. Venkata Sowmyasree	To prescribe or not to prescribe? Antibiotics and outpatients infections	25-05-2024	Stanford medicine
12.	Training(Edx)	G. Venkata Sowmyasree	Introduction to pharmacokinetics from ADME to PK/PD	25-05-2024	Davidson college
13.	Training (Edx)	Dr.P.Anitha	Medchem3 : introduction to pharmakinetics : from ADME to PK/PD	25-05-2024	Davidson college

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14.	Training(Edx)	E.Gireesh kumar	Introduction to food and health	27-05-2024	Standford medicine
15.	Training(Edx)	Dr.D.Vasavi devi	Introduction to food and health	27-05-2024	Standford medicine
16.	Training(Edx)	A.Susmitha	Introduction to food and health	27-05-2024	Standford medicine
17.	Training(Edx)	M.Madhu	Introduction to food and health	27-05-2024	Standford medicine
18.	Training(Edx)	Dr.V.Viswanath	Prescription drug misuse and addiction : compassionate care for a complex problem	28-05-2024	Standford medicine
19.	Training(Edx)	Dr.V.Viswanath	An evidence based approach to the diagnosis and management of migraines in adults in the primary care and general neurology setting	28-05-2024	Standford medicine
20.	Training(Edx)	R.Pradeep	Frame work for data collection and analysis	28-05-2024	University of Maryland
21.	Training(Edx)	Dr.V.Viswanath	Optimizing antimicrobial therapy with timeouts	28-05-2024	Standford medicine
22.	Training (Edx)	K.Adinarayana	Introduction to food and health	28-05-2024	Stanford university
23.	Training(Edx)	Dr.V.Viswanath	Introduction to pharmacokinetics from ADME to PK/PD	29-05-2024	Davidson college
24.	Training(Edx)	G. Venkata Sowmyasree	Identifying early signs of psychosis in adolescents and young adults	29-05-2024	Stanford medicine
25.	Training (Edx)	Dr.P.Dwarakanadh	Introduction to pharmacology	29-05-2024	Doane University
26.	Training(Edx)	R.Pradeep	Data collection: online, telephone and face to face	30-05-2024	University of Michigan

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27.	Training(Edx)	R.Pradeep	Research methodologies	30-05-2024	Queen Mary university of London
28.	Training(Edx)	Dr.V.Viswanath	Mental health and nutrition	30-05-2024	University of Canterbury
29.	Training(Edx)	Dr.V.Viswanath	Lifestyle medicine fundamentals	31-05-2024	Doane university
30.	Training (Edx)	Dr.P.Dwarakanadh	Introduction to food and health	31-05-2024	Stanford university
31.	Training(Edx)	Dr.V.Viswanath	How to achieve the sustainable development goals	01-06-2024	SDG Academy
32.	Training (Edx)	Dr.M.Hamza baig	To prescribe or not to prescribe? Antibiotics and outpatient infections	03-06-2024	Stanford medicine
33.	Training(Edx)	Dr.C.Suryaprakash	Introduction to pharmacokinetics from ADME to PK/PD	06-06-2024	Davidson college
34.	Training(Edx)	Dr.M.Sireesha	Introduction to food and health	08-06-2024	Stanford medicine
35.	Training (Edx)	Dr.D.Swarnalatha	To prescribe or not to prescribe? Antibiotics and outpatient infections	08-06-2024	Stanford university
36.	Training(Edx)	Dr.C.Suryaprakash	Writing presenting and submitting scientific papers in English	10-06-2024	Tsinghua university
37.	Webinar	Dr.M.Sireesha	Pharm.D continuing education forum drug information series	10-06-2024	Gulf medical university
38.	Training(Edx)	R.Pradeep	Introduction statistical analysis : hypothesis testing	11-06-2024	SAS Education
39.	Training(Edx)	Dr.C.Suryaprakash	Creative thinking : techniques and tools for success	11-06-2024	Imperial college London
40.	Training(Edx)	Dr.C.Suryaprakash	Quantitative and qualitative research for beginners	11-06-2024	National university of Singapore
41.	Training(Edx)	B.Nirmala devi	Introduction to food and health	12-06-2024	Standford medicine

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42.	Training(Edx)	S.Sudhakar	Introduction to food and health	12-06-2024	Standford medicine
43.	Training (Edx)	Y.Pradeep kumar	Introduction to food and health	12-06-2024	Stanford university
44.	Training(Edx)	Dr.C.Suryaprakash	Analyzing data with excel	13-06-2024	IBM
45.	Training(Edx)	M.Madhu	Analyzing data with excel	13-06-2024	IBM
46.	Training(Edx)	R.Pradeep	Bayesian statistics : from concept to data analysis	13-06-2024	UC Santa cruz
47.	Training(Edx)	R.Pradeep	How to write and publish a scientific paper	15-06-2024	Institut polytechnique DE PARIS
48.	Training(Edx)	R.Pradeep	Basic information literacy	15-06-2024	State university of new York
49.	Training(Edx)	R.Pradeep	Academic information seeking	15-06-2024	University of Copenhagen
50.	Training(Edx)	E.Gireesh kumar	Quantitative and qualitative research for beginners	18-06-2024	National university of Singapore
51.	Training(Edx)	E.Gireesh kumar	Innovate & regulate : drug research costs clinical trials & approvals	18-06-2024	Davidson college
52.	Training(Edx)	U.Narasimhulu	Innovate & regulate : drug research costs clinical trials & approvals	20-06-2024	Davidson college
53.	Training(Edx)	U.Narasimhulu	Risk management tools and practices	20-06-2024	New York institute of finance
54.	Training (Edx)	Dr.M.Hamza baig	Nutrition and health : macronutrients	27-06-2024	Wageningen university & research
55.	Training(Edx)	Dr.C.Suryaprakash	Higher education teaching in the age of AI	28-06-2024	Stellenbosch university
56.	Training(Edx)	M.Mahendra	Human anatomy ; musculoskeletal cases	28-06-2024	Harvard
57.	Training(Edx)	DR.S. Sravana kumari	Writing, presentating and submitting Scientic papers in English	29-06-2024	Tsinghua University

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58.	Training(Edx)	Dr. S Lakshmi Manideep Royal	Writing, presentating and submitting Scientic papers in English	29-06-2024	Tsinghua University
59.	Training(Edx)	Dr. R. Vineela Hasini	Writing, presentating and submitting Scientic papers in English	29-06-2024	Tsinghua University
60.	Training (Edx)	Dr.M.Sireesha	Nutrition and health : micronutrients	29-06-2024	Wageningen university & research

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

NAGAMANI SOMISETTY

for successfully completing the course

Experimental Biotechnology

with a consolidated score of 53 %

Online Assignments	23.1/25	Proctored Exam	30/75

Total number of candidates certified in this course: 366

Jul-Oct 2022

(12 week course)

Prof. T. V. Bharat

Head, Centre for Educational Technology

(NPTEL Coordinator, IIT Guwahati)

Indian Institute of Technology Guwahati

swayam

No: NPTEL22BT60554052080 To validate the certificate No. of credits recommended: 3 or 4

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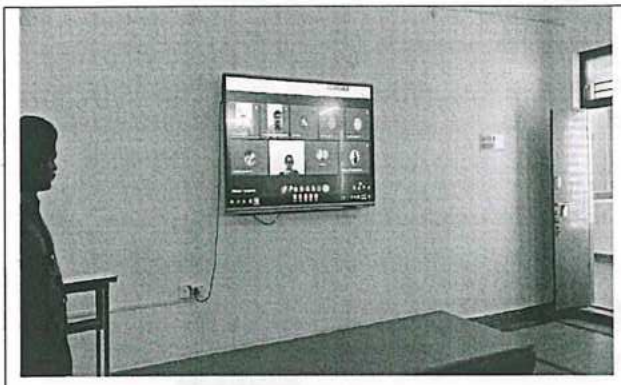
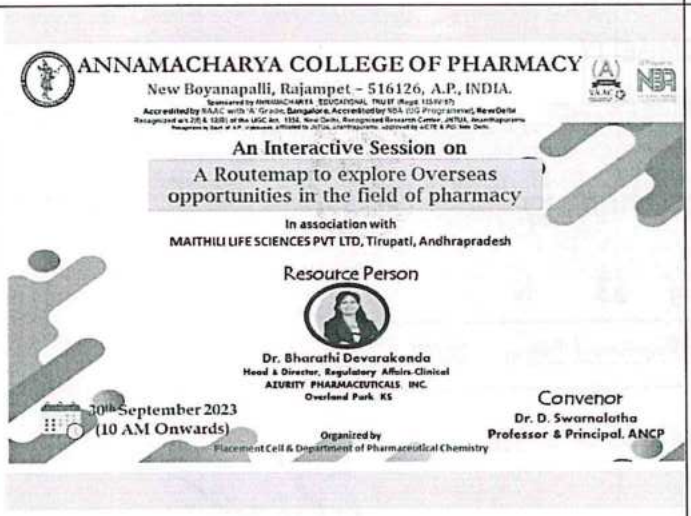
5.BLENDED LEARNING

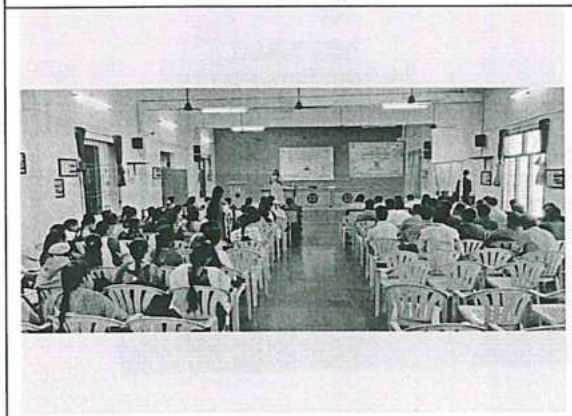
Blended Learning is a combination of learning methods that incorporate multiple teaching methodologies which includes e-learning as well as traditional face-to-face learning. A blended learning approach ensures that the student is engaged effectively.

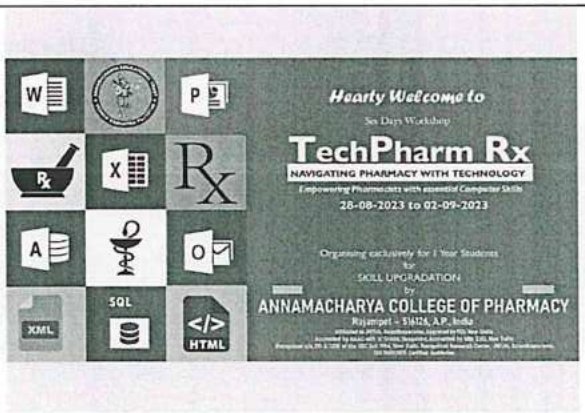


Classroom With Interactive Boards (ICT Tool)

Classroom With Interactive Boards (ICT Tool)







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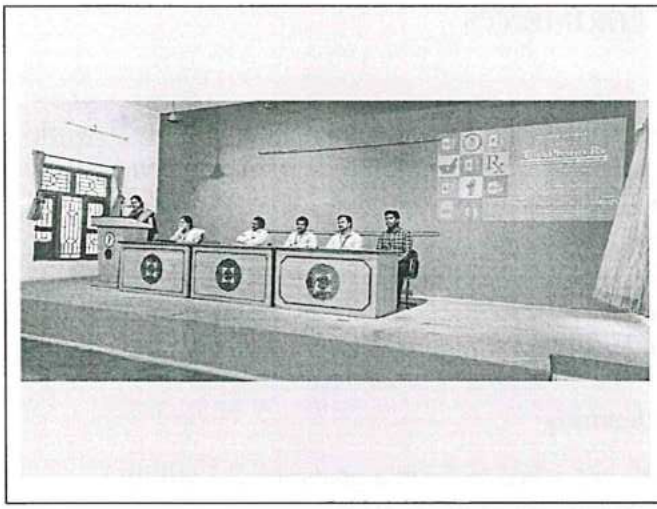

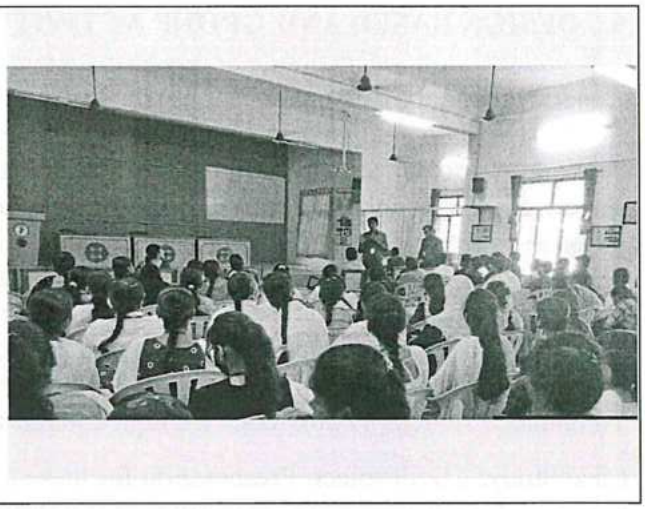

PO	Program Outcome	Relevance to Blended Learning Activity
PO1	Pharmacy Knowledge	Online modules and in-person discussions reinforce core pharmaceutical concepts.
PO2	Planning Abilities	Students plan their learning schedules, manage coursework between digital and classroom modes.
PO3	Problem Analysis	Case-based learning online encourages analytical thinking and clinical decision-making.
PO4	Modern Tool Usage	Use of LMS platforms, simulation software, and virtual labs enhances digital competency.
PO5	Leadership Skills	Opportunities to lead peer learning discussions and collaborative online projects.
PO6	Professional Identity	Exposure to professional e-content and real-time discussions enhances pharmacist role understanding.
PO7	Pharmaceutical Ethics	Online modules often include ethical case scenarios, reinforcing regulatory and ethical standards.
PO8	Communication Skills	Students improve digital communication through forums, video presentations, and collaborative tasks.
PO9	Teamwork and Collaboration	Online group projects and peer evaluations foster virtual teamwork and collaboration.
PO10	Environment & Sustainability	E-learning reduces paper usage and supports sustainable academic practices.
PO11	Project Management & Finance	Managing time, resources, and goals across blended modules enhances project planning skills.
PO12	Life-long Learning	Self-paced online content encourages students to pursue continuous, independent learning.

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6. DESIGN BASED AND GROUP ACTIVITY EXPERIMENTS

Case Study Method

The case study approach enables pharmacy students to identify and analyse common real-world challenges encountered in various pharmaceutical and healthcare settings. Students are encouraged to review clinical or industry-related cases, understand the pharmaceutical context, identify core problems, propose appropriate solutions, and actively participate in classroom discussions. These domain-specific case scenarios focus on practical issues in areas like drug development, regulatory affairs, quality assurance, and hospital pharmacy practice. Case studies are also used as group discussion topics to enhance students' problem-solving, communication, and critical thinking skillscrucial for success in the pharmaceutical field.

To enhance student's knowledge through collaborative learning

Case Study/ Mini Project/ Presentation for these students are asked to form a group of 2-3 within the batch for performing the case study/ Mini Project/Presentation as the subject.

Case Study Based Learning

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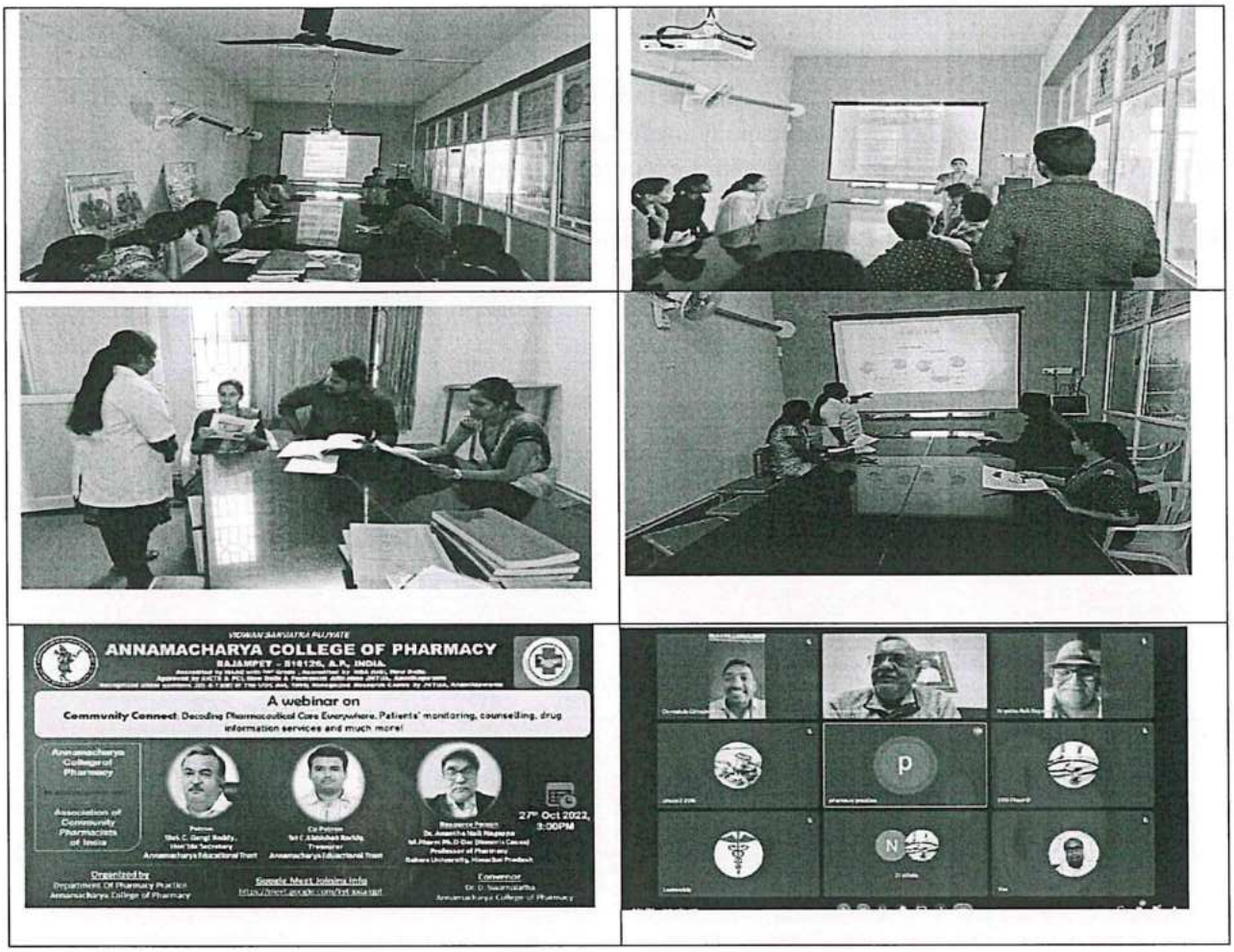

PO	Program Outcome	Relevance to Activity
PO1	Pharmacy Knowledge	Activities involve applying core concepts of pharmaceutics, pharmacology, and pharmacognosy.
PO2	Planning Abilities	Students plan experiments, manage resources, and design protocols for project-based learning.
PO3	Problem Analysis	Analyzing scientific problems and proposing experimental solutions during formulation or testing.
PO4	Modern Tool Usage	Use of instruments, simulation software, and lab technologies for design-based experiments.
PO5	Leadership Skills	Students lead mini-projects or coordinate group activities, building team responsibility.
PO6	Professional Identity	Understand pharmacist roles in research, community service, and interprofessional collaboration.
PO7	Pharmaceutical Ethics	Ethical considerations in research design, data handling, and patient-centered thinking.
PO8	Communication Skills	Oral/poster presentations, report writing, and group discussions enhance communication.

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PO9	Teamwork and Collaboration	Group experiments foster team coordination and multidisciplinary collaboration.
PO10	Environment & Sustainability	Activities include green chemistry, waste reduction, and eco-conscious formulation design.
PO11	Project Management & Finance	Budgeting, resource management, and timeline execution during projects.
PO12	Life-long Learning	Encourages critical thinking, exploration of recent advances, and self-directed learning.

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7. PROJECT BASED LEARNING:

Project-Based Learning (PBL) is an **active, inquiry-based educational approach** that aims to cultivate **critical thinking** and **problem-solving skills** in students. By engaging with real-life challenges presented in the form of projects, students learn through exploration and practical application. This method promotes **self-directed learning**, enhances **conceptual understanding**, and encourages creativity. Collaborative team activities further support personal development by providing a platform for students to exchange ideas and work together effectively.

Objectives of Project-Based Learning:

- ✓ **Assess True Understanding**: Helps evaluate students' actual grasp of concepts beyond memorization.
- ✓ **Enhance Interpersonal Skills**: Encourages teamwork, communication, and collaboration.
- ✓ **Foster Conceptual Clarity and Creativity**: Supports the development of innovative thinking and deeper understanding.
- ✓ **Empower Students with Real-World Problem Selection**: Allows students to choose relevant, practical problems to solve.
- ✓ **Enable Comprehensive Skill Assessment**: Offers a more effective model for evaluating students' applied skills and competencies.

The **"INTERNAL HACKATHON FOR SIH 2024"** held on September 18, 2024 at smart class room (F023), Annamacharya college of Pharmacy (Autonomous), Rajampet, Annamayya Dist., Andhra Pradesh. The Hackathon was inaugurated by Dr.D.Swarnalatha, Professor & Principal of Annamacharya college of Pharmacy. Her speech focused on the value of unconventional thinking and how it can assist students in transforming their ideas into products and accomplishing amazing things. In addition to stating that this is the first hackathon to be held on campus, Mr. Simham Sudhakar (SPOC, Annamacharya College of Pharmacy) also described the goals and purposes of the program. This nationwide initiative aims to give students a platform to solve some of the most problems of daily life in order to instill a culture of product innovation and a problem-solving mindset.

A total of 05 teams (30 students, 14 male, and 16 female) of students have registered and (27 Students, 12 Male, and 15 Female) of students have Participated in this event. As per the guidelines of Smart India Hackathon – 2024, and to encourage female participation in innovative projects, each team consists of at least one female student as a member.

The institute's participant's worked on 03 distinct problem statements highlighted by various departments of the Indian government agencies. The participants picked three software problems and

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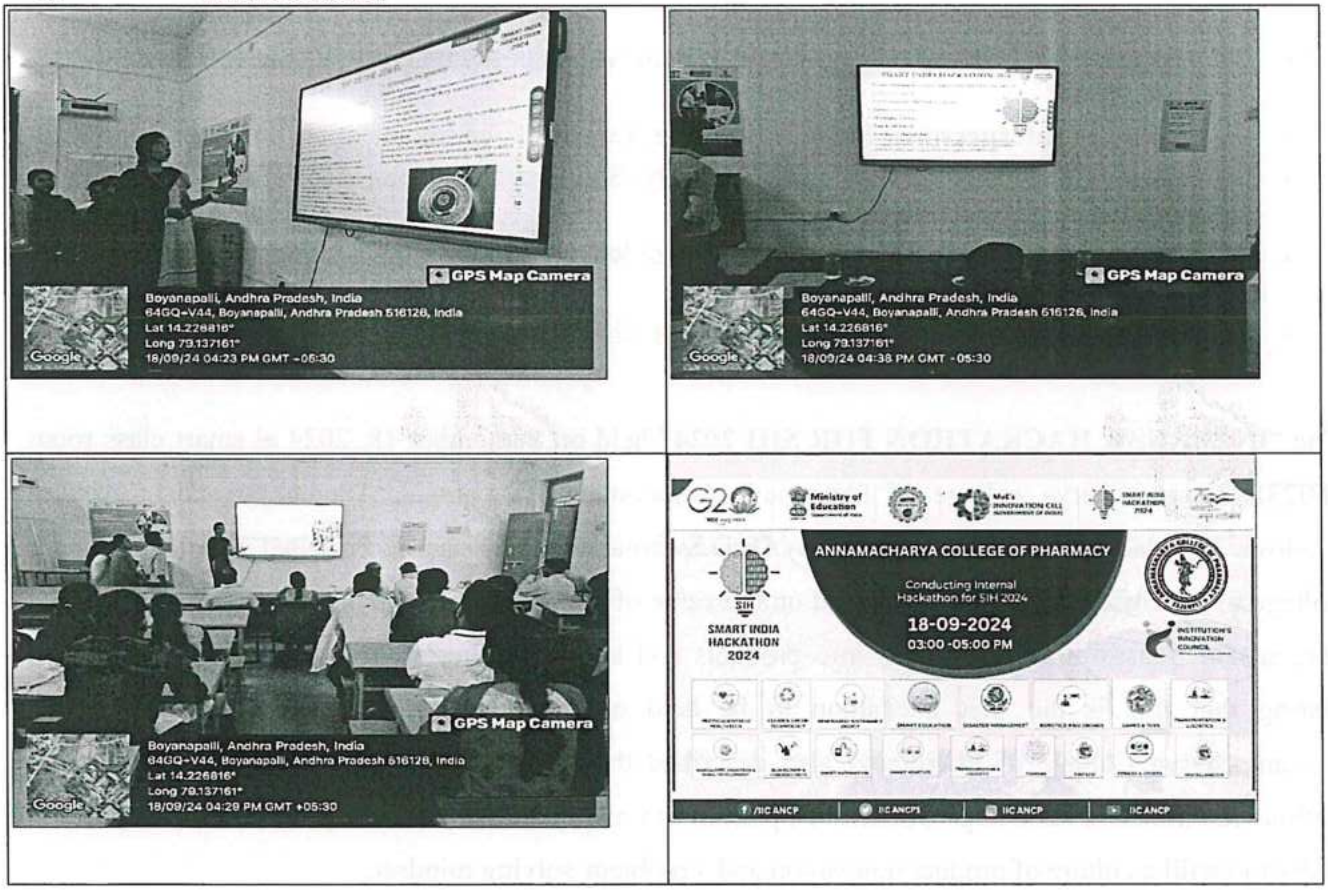
two hardware problems. To analyze and shortlist the teams, the institution chose three judges with academic backgrounds in diverse domains. The hackathon attracted 05 teams totaling 30 students. The presentations on various concepts began at 04:15 PM.

The evaluation process followed the SIH 2024 format; the jury explained the selection process. The program continued with the presentation of all teams. Each team had 15 minutes for each problem. From 05 batches, all ideas have been shortlisted and will be uploaded on the SIH portal.

1. Event Photos:



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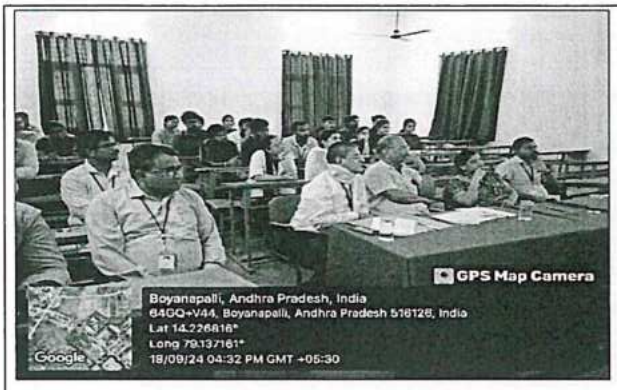
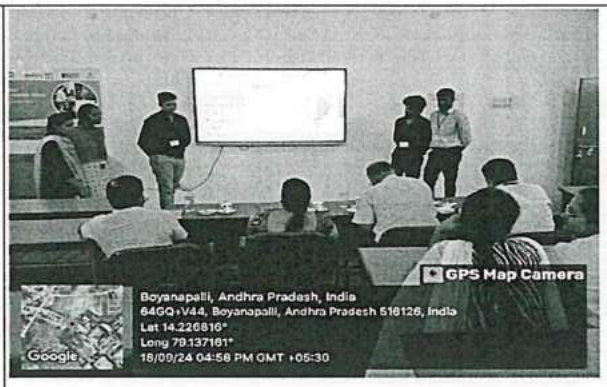
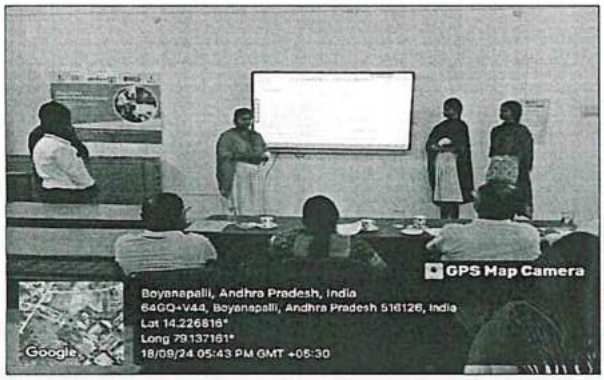
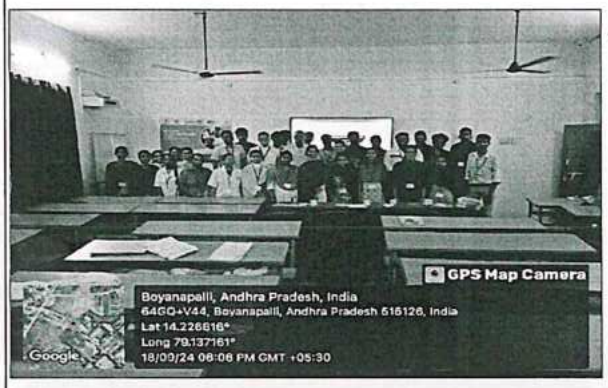
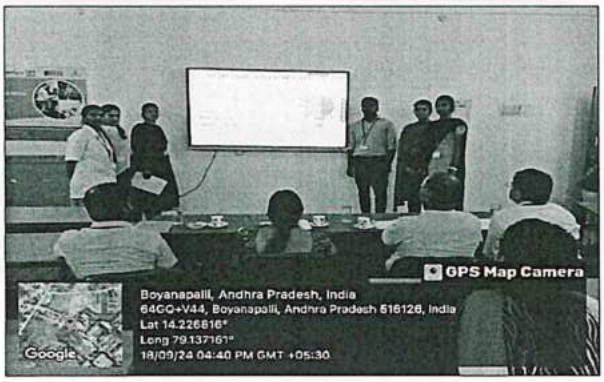


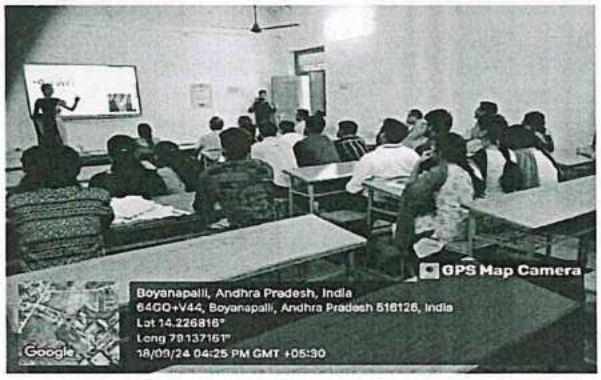


Participating team Pictures:









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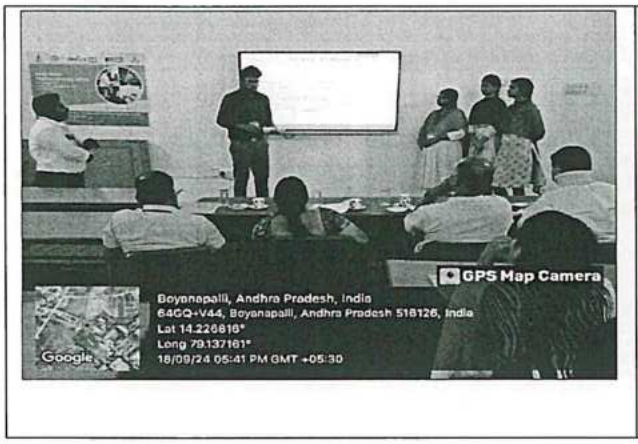
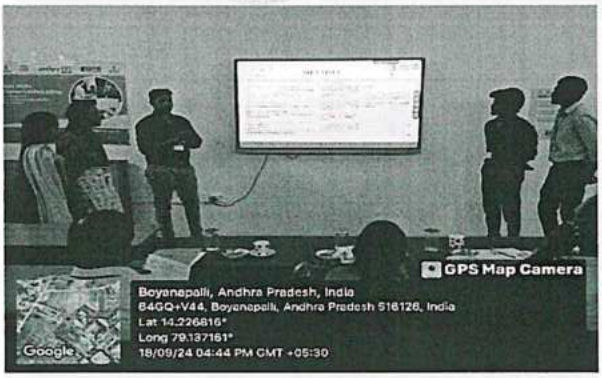
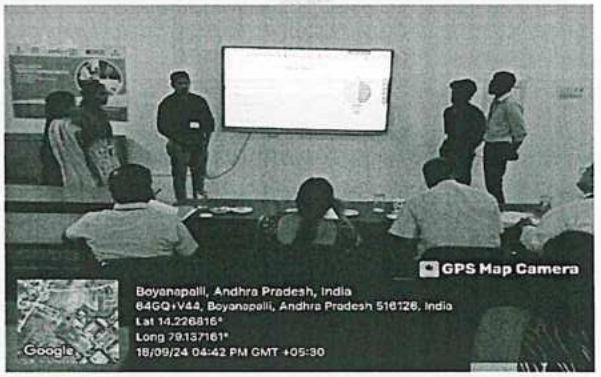


Team Name: Camouflage





Team Name: Life line

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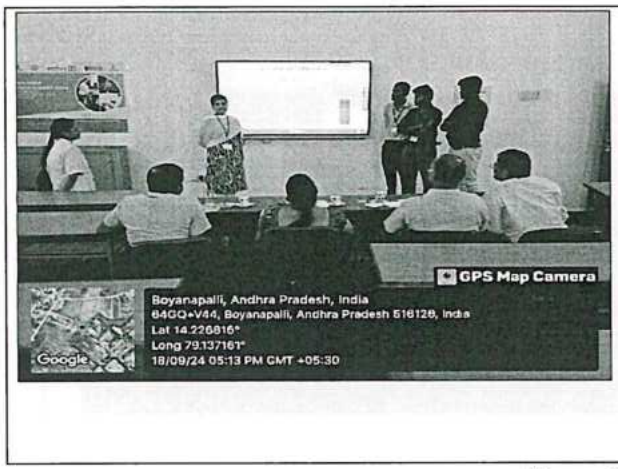
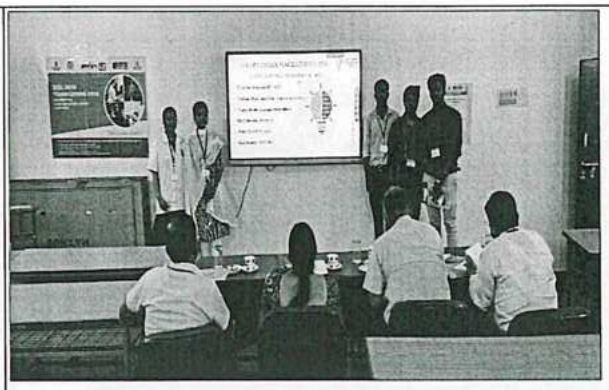
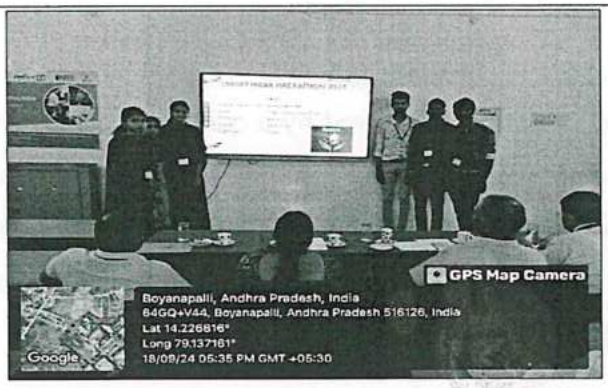
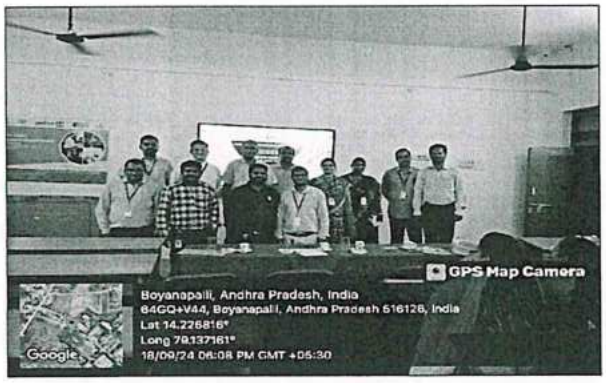


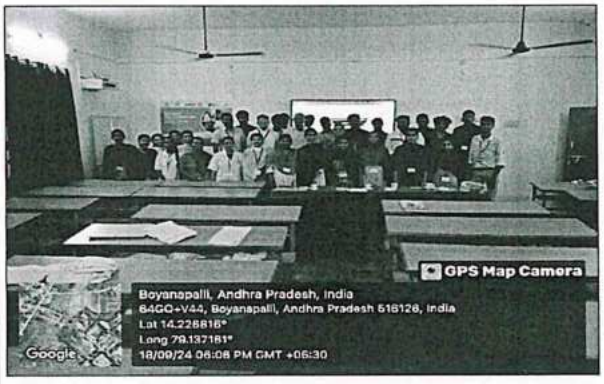


Team Name: HB Point



Team Name: Rx Care





Team Name: Life Savvy Partners

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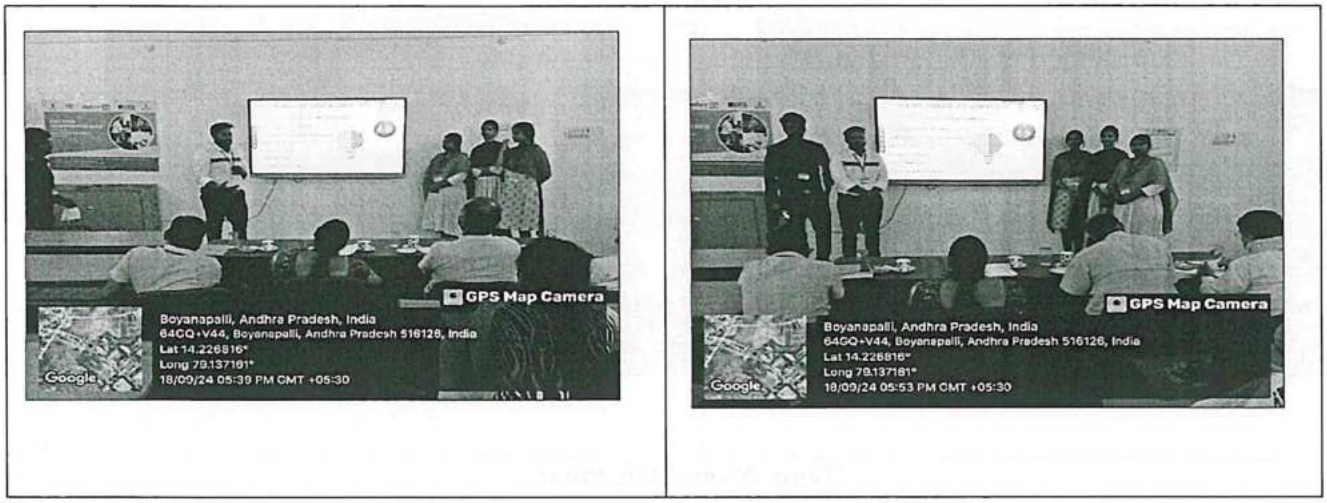

Judging Process:

Each team had 15 minutes to present their solutions, followed by a question-and-answer session with the judges. The presentation was divided into a team introduction, problem statement and solution explanation, counterpoints and suggestions from the jury members. The jury evaluated the presentation based on the established criteria and gave constructive feedback. The process was transparent and focused on identifying solutions with high impact and feasibility potential.

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Evaluation criteria:

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Approved by PCI, New Delhi, Affiliated to JNTUA, Ananthapuramu.
Accredited by NAAC with 'A' Grade, Bangalore, Accredited by NBA (UG Programme), New Delhi
Recognized u/s 2(f) & 12(B) of the UGC Act, 1956, New Delhi, ISO-9001:2015, Recognized Research Center, JNTUA, Ananthapuramu.

SMART INDIA HACKATHON 2024

INTERNAL HACKATHON FOR SIH-2024

EVALUATION SHEET

JUDGE NAME

S.NO.	Team name	Team leader	Category (Software/ Hardware)	Problem Number (SIH)	Novelty of the idea (10M)	Clarity and Details (10M)	Feasibility (10M)	Practicability & Sustainability (10M)	Scale of impact (10M)	Total (50M)
1.										
2.										
3.										
4.										
5.										

Best idea team Name/s:

Good idea team Name/s:

Remarks:

Date:18-09-2024

Signature

Jury panel details:

The jury consisted of three distinguished academic leaders who brought academic rigor and an understanding of the theoretical foundations. The jury evaluated each team's solution based on innovation, creativity, technical feasibility and practicality. The jury members discussed each project together and exchanged their expert opinions before making a final decision. Based on their ratings, the jury selected teams.

Name of the Jury	Designation of Jury	Organization of Jury	Mobile No of Jury	Email ID of Jury
Dr. D. KRISHNA MOHAN RAJU	Professor	Annamacharya University, Rajampet, Annamayya Dist., Andhra	9100235810	krishnamohan.inventions@gmail.com

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		Pradesh		
Dr.BOJJA ADINARAYANA	Lecturer	Government Degree College, Rajampet, Annamayya Dist., Andhra Pradesh	9866894845	**adi.bojja@gmail.com**
Mr. ERI GIREESH KUMAR	Associate Professor	Annamacharya College of Pharmacy, Rajampet, Annamayya Dist., Andhra Pradesh	8500000075	**gireeshkumarancp@gmail.com**

Nominated top teams:

Team Name	Team Leader Name	Problem Statement ID	Problem Statement Title	Theme	PS Category (Hardware/ Software)
Camouflage	P.Tejaswi	SIH 1589	Student Innovation	Cybersecurity	software
Life Line	P.Krishna Chaithanya Reddy	SIH 1600	Student Innovation	Smart automation	Hardware
HB Point	K.Shabana	SIH 1537	Student Innovation	Medtech/Biotech/Healthtech	Hardware
Rx Care	K. Rafath sulthana	SIH 1597	Student Innovation	Medtech/Biotech/Healthtech	Software
LifeSavvy Partners	K.Priyanka	SIH 1588	Student Innovation	Medtech/Biotech/Healthtech	Software

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Judges information:

	Dr. D. KRISHNA MOHAN RAJU Professor Annamacharya University, Rajampet, Annamayya Dist., Andhra Pradesh-516126 Email ID:**krishnamohan.inventions@gmail.com**
	Dr.BOJJA ADINARAYANA Lecturer Government Degree College, Rajampet, Annamayya Dist., Andhra Pradesh-516115 Email ID: **adi.bojja@gmail.com**
	Mr. ERI GIREESH KUMAR Associate Professor Annamacharya College of Pharmacy, Rajampet, Annamayya Dist., Andhra Pradesh-516126 **gireeshkumarancp@gmail.com**

Total participating teams & students:

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Five teams participated in the internal hackathon for SIH 2024, showcased their creative solutions, and fought for the opportunity to represent the institute nationally at SIH 2024.

List of Total participating teams

S.No	Team name	Team leader	Theme	Problem ID
1	Camouflage	P.Tejaswi	Cybersecurity	SIH 1589
2	Life Line	P.Krishna Chaithanya Reddy	Smart automation	SIH 1600
3	HB Point	K.Shabana	Medtech/Biotech/Healthtech	SIH 1537
4	Rx Care	K. Rafath sulthana	Medtech/Biotech/Healthtech	SIH 1597
5	LifeSavvy Partners	K.Priyanka	Medtech/Biotech/Healthtech	SIH 1588

List of Total participating students

S.No	Team name	Student name	Gender	Problem ID
	Camouflage	P.TEJASWI	FEMALE	SIH 1589
		P.KAVITHA	FEMALE	
		P. AJAY KUMAR	MALE	
		R.MADHAVI	FEMALE	
		Y. AMRUTHA SAI	FEMALE	
		A. MOUNIKA	FEMALE	
	Life Line	P.KRISHNA CHAITANYA REDDY	MALE	SIH 1600
		P.SAI	MALE	
		P.ASHOK	MALE	
		R.SATHYA PRAVALIKA	FEMALE	
		P.INDU LAHARRIE	FEMALE	
		O.L.N GOUTHAM	MALE	
	HB Point	K.SHABANA	FEMALE	SIH 1537
		B.PADMATULASI	FEMALE	
		G.VENKATA SUDHEER	MALE	
		K.VIJAY	MALE	
		K.HARI KRISHNA	MALE	
		B.BALAJI	MALE	
	Rx Care	K. RAFATH SULTHANA	FEMALE	SIH 1597
		M.AMRUTHA REDDY	FEMALE	
		M.HUSSAIN	MALE	
		B.SUSHMITHA	FEMALE	
		K.MAHENDRA	MALE	
		K.THIPPESH BABU	MALE	
	LifeSavvy Partners	K.PRIYANKA	FEMALE	SIH 1588
		B.SUJAY	MALE	
		E.HARITHA	FEMALE	
		D.SWETHA	FEMALE	
		M.V.P.MANISHA	FEMALE	
		SMD NIKHAT	MALE	

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Number of Male students : 14

Number of Female students : 16

Total number of students participated: 30

Social media promotion:

Instagram: https://www.instagram.com/p/C_0AWU8zYUn/

Twitter: https://x.com/IICANCP1

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PO	Program Outcome	Relevance to Hackathon Activity
PO1	Pharmacy Knowledge	Students apply foundational pharmaceutical knowledge to propose innovative health-related solutions.
PO2	Planning Abilities	Teams develop structured project plans, timelines, and resource allocation for solving real problems.
PO3	Problem Analysis	Hackathons focus on identifying real-world healthcare/pharmacy problems and designing viable solutions.
PO4	Modern Tool Usage	Encourages use of data analysis tools, simulations, or digital platforms to develop working models.
PO5	Leadership Skills	Students take initiative, lead teams, and manage tasks to complete projects under deadlines.
PO6	Professional Identity	Builds awareness of the pharmacist's role in public health innovation and tech-based solutions.
PO8	Communication Skills	Teams pitch ideas and present outcomes effectively to judges and peers.
PO9	Teamwork and Collaboration	Multidisciplinary teamwork enhances coordination, cooperation, and collaborative problem-solving.
PO11	Project Management & Finance	Budget planning, cost estimation, and viability of proposed ideas are integral to hackathon scoring.
PO12	Life-long Learning	Motivates students to continuously explore tech, entrepreneurship, and pharma innovations.

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8. Quizzes

Links for Online quizzes

1. https://docs.google.com/forms/d/e/1FAIpQLSfXGz8WsC47-p7qByz4s6X95DeOiEJ_eT1dGe1CKDFvgXQs5g/viewform?usp=sf_link

2. https://forms.gle/mHcqdpVrfAbM9sVt5

3. https://docs.google.com/forms/d/e/1FAIpQLSekxAmaxz8XfYQZzP3KOFU0kPpcak0ISbdm_UkPJLvRPGjSyA/viewform?usp=sf_link

4. https://docs.google.com/forms/d/e/1FAIpQLScW6l6uAEoDsWzk0bGS7vYXFsbczY93szBi4PO2kXC6gCxWew/viewform?usp=sf_link

5. https://docs.google.com/forms/d/e/1FAIpQLSfX6CPiovAuHTyZVDVzGJOVgSFr-xLjsnJ9O9DsC_X5GJvAWQ/viewform?usp=sf_link

6. https://docs.google.com/forms/d/e/1FAIpQLScm-qnzWd-cJQbfnp13XP4Uok6kumoaR7PJJwoFpx_uPM4yjQ/viewform?usp=sf_link

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QUIZ COMPETITION

For All the Aspiring Pharmacy Graduates

Program Coordinators:

Dr. P. Dwarakanadha Reddy, Professor, HOD, Department of Pharmaceutics

Dr. V.Viswanath, Professor, Department of Pharmaceutics

venkatdeepa19@gmail.com Switch account

Draft saved

* Indicates required question

Email *

Record venkatdeepa19@gmail.com as the email to be included with my response

Response sheet for physical pharmaceutics online quiz

	Timestamp	Email address	Score	Name of the Student	Roll number of the student	Name of the program	Semester	The rate at whih monolithic devices release
2	12/19/2022 18:18:55	mitra8677@gmail.com	4 / 20	Mitra	27	B.Pharm	VII	half the time
3	12/19/2022 18:22:36	fayazsmm3584@gma	7 / 20	S. M. M. FAYAZ	19M71R0087	B.Pharm	VII	square of time
4	12/19/2022 18:23:45	pavithararatala@gmail.	18 / 20	Pavithra R	19M71R0066	B.Pharm	VII	square root of time
5	12/19/2022 18:24:57	madhanmohan718@g	6 / 20	PERUSOMULA MADHA	19M71R0068	B.Pharm	VII	square root of time
6	12/19/2022 18:26:41	chinninaamu@gmail.c	8 / 20	Sai	19M71R0091	B.Pharm	VII	square root of time
7	12/19/2022 18:28:49	s.azaruddin846@gmai	18 / 20	S.Md Azaruddin	19M71R0086	B.Pharm	VII	square root of time
8	12/19/2022 18:29:12	pavankrishnaperakam(	11 / 20	P.Pavan Krishna	19m71r0067	B.Pharm	VII	square root of time
9	12/19/2022 18:29:32	jamalshaik6932@gma	18 / 20	S.A.Jamal basha	19M71R0084	B.Pharm	VII	square root of time
10	12/19/2022 18:29:48	chandrasekharpagadal	17 / 20	P.chandra sekhar	19M71R0063	B.Pharm	VII	square of time
11	12/19/2022 18:30:16	mohammadrafiq9841@	18 / 20	V.Mohammad Rafiq	19M71R00A5	B.Pharm	VII	square root of time
12	12/19/2022 18:30:22	pandumnj@gmai.com	9 / 20	Mohith	19M71R00A8	B.Pharm	VII	square root of time
13	12/19/2022 18:30:29	saisunithkumarreddy@	18 / 20	Thulasi Reddy Gari Sai	19M71R0098	B.Pharm	VII	square root of time
14	12/19/2022 18:31:56	kumarreddynagireddy(	19 / 20	N. Kumar Reddy	19M71R0061	B.Pharm	VII	square root of time
15	12/19/2022 18:33:32	sulaiman9908@gmail.	19 / 20	shaikshaima	19M71R0088	B.Pharm	VII	square root of time
16	12/19/2022 18:35:05	shaikafu2002@gmail.c	13 / 20	Shaik Afiya	19M71R0082	B.Pharm	VII	half the time
17	12/19/2022 18:35:20	ppeerambi2002@gmai	20 / 20	Pothuganti Peerambi	19M71R0072	B.Pharm	VII	square root of time
18	12/19/2022 18:35:32	vishalakshi2002@gm	20 / 20	Vadde Vishalakshi	19M71R00A2	B.Pharm	VII	square root of time
19	12/19/2022 18:36:21	shaikshifataj62002@g	20 / 20	Shaik shifa taj	19M71R0089	B.Pharm	VII	square root of time
20	12/19/2022 18:36:21	aidashaik896@gmail.c	20 / 20	Shaik Aida	19M71R0083	B.Pharm	VII	square root of time
21	12/19/2022 18:36:27	vulasalapavani@gmail.	10 / 20	V.V.Pavani	19M71R00A6	B.Pharm	VII	square root of time
22	12/19/2022 18:37:06	talarimanoj46@gmail.c	11 / 20	TALARI MANOJ KUMAF	19M71R0095	B.Pharm	VII	square root of time
23	12/19/2022 18:37:10	Sivapuramsubramanya	10 / 20	Subramanyam	19M71R0092	B.Pharm	VII	square root of time
24	12/19/2022 18:37:11	shaikhabeeba10@gma	20 / 20	Shaik Habeeba	19M71R0085	B.Pharm	VII	square root of time

Activate Windows

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3/14/2023 20:38:15	chalapatideekshitha30	14 / 20	C.LakshmiDeekshitha	21M71R0018	B.Pharm	I	Polymorphism
3/14/2023 20:38:21	bukkevaraprasadnaik4	11 / 20	B.vara prasad naik	21M71R0014	B.Pharm	I	Polymorphism
3/14/2023 20:41:02	thanujaketha17540@g	16 / 20	K. Thanuja	21M71R0041	B.Pharm	I	Polymorphism
3/14/2023 20:41:07	kharikrishna7145@gm	13 / 20	K.Hari Krishna	21M71R0043	B.Pharm	I	Polymorphism
3/14/2023 20:41:27	gayatrigajjala142@gm	11 / 20	Gajjala gayatri	21M71R0027	B.Pharm	I	Polymorphism
3/14/2023 20:44:21	sudheergv32@gmail.c	11 / 20	Guduru venkata sudheer	21M71R0032	B.Pharm	I	Polymorphism
3/14/2023 20:45:12	billukrishnaveni6@gma	13 / 20	B.krishnaveni	21M71R0011	B.Pharm	I	Polymorphism
3/14/2023 20:45:14	vijukrishna173@gmail.	17 / 20	Vijay Krishna	21M71R0040	B.Pharm	I	Polymorphism
3/14/2023 20:45:34	busikrishna073@gmai	14 / 20	B.Venkata Krishna		16 B.Pharm	I	Polymorphism
3/14/2023 20:45:46	bharathkumar1166a@g	9 / 20	Araveeti Bharath Kumar	21M71R0004	B.Pharm	I	Polymorphism
3/14/2023 20:48:16	bheemanapallipadmati	16 / 20	Padmatulasi	21m71R0010	B.Pharm	I	Polymorphism
3/14/2023 20:48:23	kallurushabana961@g	16 / 20	Shabana	21M71R0035	B.Pharm	I	Polymorphism
3/14/2023 20:48:24	chereddyswarna123@	16 / 20	C. Swarna	21M71R0021	B.Pharm	I	Polymorphism
3/14/2023 20:48:48	jayasreenaidu944@gm	15 / 20	A.Jayasree	21M71R0001	B.Pharm	I	Polymorphism
3/14/2023 20:49:12	doddipalliswetha8@gm	14 / 20	D.swetha	21M71R0022	B.Pharm	I	Polymorphism
3/14/2023 20:49:18	kumarreddysumanth3(	12 / 20	M sumanth Kumar Redd	21M71R0050	B.Pharm	I	Polymorphism
3/14/2023 20:49:31	edigaharikanth@gmail	14 / 20	E HARI KANTH	21M71R0026	B.Pharm	I	Polymorphism
3/14/2023 20:49:45	bbalaji9944383008@g	14 / 20	B BALAJI	21m71r0007	B.Pharm	I	Polymorphism
3/14/2023 20:50:16	krohitha199@gmail.co	14 / 20	K. Rohitha	21M71R0042	B.Pharm	I	Polymorphism
3/14/2023 20:50:33	shivajichenchugalla14	14 / 20	Chenchugalla shivaji	21M71R0020	B.Pharm	I	Polymorphism
3/14/2023 20:50:46	Jalandharreddy89@en	12 / 20	A.Jalandhar Reddy	21M71R0002	B.Pharm	I	Polymorphism
3/14/2023 20:52:21	sujayburru@gmail.con	18 / 20	B sujay	21M71R0015	B.Pharm	I	Polymorphism
3/14/2023 20:52:25	meghabandarualli9948	14 / 20	B.Meghasyam	21M71R0009	B.Pharm	I	Polymorphism

PO	Program Outcome	Relevance to Quiz Activity
PO1	Pharmacy Knowledge	Quiz assesses understanding of industrial processes, departments, and documentation.
PO3	Problem Analysis	Application-based questions (e.g., in-process checks, regulatory issues) test analytical skills.
PO4	Modern Tool Usage	Questions on equipment, QC tools, and production systems reflect tool and tech understanding.
PO6	Professional Identity	Quiz emphasizes pharmacist roles and responsibilities observed in the industry.
PO7	Pharmaceutical Ethics	Tests ethical practices, compliance with regulations like GMP and CPCSEA.
PO10	Environment & Sustainability	Includes sustainability-related practices in pharma industries.
PO12	Life-long Learning	Reflective and career-based questions promote continuous learning and awareness.

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9. Employability training and career guidance

Career guidance can help the students to choose their career option based on their interest. It is necessary to ensure that the students are put on the right path for becoming valuable citizens to the real world. Every student has to introvert in order to choose the right career in his life and also faculty can guide them to choose their career on self-interest.

As a part of the career guidance we have been adopted awareness and orientation programmes to the students from 1 year onwards based on their interest on seeking job/ higher studies / entrepreneur. Once they choose their career upon that we train them on activities like Technical training programmes that help every individual to achieve their goal. We bring the industry experts & HR's from different fields to bridge the gap between the academics and industry making the students to focus on current technologies and exaltation themselves continuously.

Pre-placement training activities/Company specific training is conducted for eligible students so as to crack the job in the company. Online tests(programming Aptitude, English and Reasoning) Aptitude Tests, Group Discussions, Personal Interviews and Personality Development Workshop give students exposure to various requirements of industries and train them in every aspect. We ensure that each and every student of this institution gets an opportunity to be placed in some of the best companies of the nation. Placements are just one of the meeting points that facilitate the exchange of knowledge between the students and the industry. It is a platform for opportunities where companies are invited to recruit students of various specializations. In our institution the recruitment process is as follows:

1. Initiation of Student enrollment from 2 year onwards for training and placements.

2. Training and Placement department train the enrolled students in the following aspects:

- Facing Interviews.
- Facing Group Discussions.
- Professional Resume Writing.
- Cracking Aptitude Exams.
- Skill Development Sessions & Programs.
- Preparing Mock Exercises.
- Recruitment and Placement Sessions.
- Arranging Seminars and Technical talks.
- Basic Grammar
- Improving the communication abilities of students and technical knowledge of student.

3. The practice sessions are conducted regularly through on-line portals

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Seminar/Webinar/Guest Lecture Details for the academic year 2023-2024

S No	Name of the session	Session Type	Date	Resource person	No. of persons Attend Forsession
1	How to be Exploring Career Path in the CRO domain In association with Manisprings	Guest Lecture	07-06-2024	Mr. Karrisetty Basappa, Trainer and CEO,MD of Mainsprings	90
2	Overseas Job Opportunities for Pharmacist and CareerGuidance"in association with Academically	Webinar	22-05-2024	Dr.Akram Ahmad, Founder, CEO and Health Career Coach, Academically	80
3	National Pharmacy Education Day 2024 Theme: "Leveraging Synergism: Industry-Academia Partnership For Implementation of National Education Policy,2020"Inassociation with Pharmacy Council Of India, New Delhi	Webinar	06-03-2024	Mr.SitaRam Alumn iAncp, Mr.E.GireeshKumar,Asso, Professor, Ancp	130
4	Wealth Awareness Program-Financial Wellness Enhancement	Webinar	25-01-2024	Ms. Sakshi, Associate-BusinessDevelopment, Advisors Organization	87
5	Future Prospectives For Pharm-D Student In association with Department of Pharmacy Practice, ANCP.	Seminar	14-12-2023	Dr.D.Girirajasekhar, Dept.ofPharmacyPractice, ANCP.	20
6	Be Employable in association with Prime	Virtual Training program	12-08-2023 & 13-08-2023	Mr. ER. Aftab Azim, Ms.Aakanchha Singh,	120

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	Step			Dr. Vishal Verma - senior manager training department	
7	Quantitative aptitude,Analytica l Reasoning, Verbal Ability and Communication Skills In association with KAUTILYA Institution – Tirupati	Seminar	10-07-2023	Mr.N.S.Reddy, Trainer & Senior Manager Kautilya Institution–Tirupati	120

Seminar/Webinar/GuestLecture Details for the academic year 2022-2023

S No	Name of the session	Session Type	Date	Resource person	No.of persons attended for session
1	Orientation Session on Medical Coding Course In association with Codevo Academy	Webinar	16-04-2023	Mr.Srikanth Joshi	45
2	Career opportunities in Pharmacovigilance and medical coding in association with Masters Pharma Solutions	Seminar	18-04-2023	DrNeeradiDinesh	110
3	New Career Avenues After Graduation And Post Graduation in association with Cliniversity	Webinar	20-06-2023	Ms.Prutha J	33
4	IT Careers overview& PharmacovigilanceCar eer Scope in association with Rise Trainings Health Care	Seminar	08-12-2022	Mr.Kiran Kumar. CH	110
5	Importance of Interview Techniques and Resume Writing for Freshers in association with	Webinar	21-10-2022	Mrs.Nikita J. Singh	100

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	y (for 1st Year B. Pharm)					
5	Webinar on Nano-Medicine: Role of QbD in Design and Developme nt	Introduce QbD&nan o-drug formulatio n concepts	Linked modern design practices to nano-formulations	PO1, PO3 (Problem Analysis), PO4, PO11	Presented with design case studies	Reviewed in DAAC as part of advanced pharma topics
6	Hands-on Training for Filing Consumer ADR at GDC, RJPT	Train on practical ADR filing procedure s	Built real-time pharmacovigila nce exposure	PO1, PO4, PO6, PO9	Practical session with forms and software	Evaluated in DAAC under experientia l learning
7	Webinar on Menstrual Health & Hygiene	Address health taboos and hygiene practices	Promoted personal and public health awareness	PO7, PO8 (Communicatio n), PO9	Speaker-led with Q&A	Included in DAAC as health & wellness enrichment
8	Cardio Pulmonary Resuscitati on (CPR) Training	Teach life-saving CPR techniques	Prepared students for medical emergencies	PO1, PO5 (Leadership), PO9	Physical demo with mannequins	DAAC reviewed for emergency healthcare preparedne ss

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				(Leadership), PO11		
7	Avenida – Path to Success (Workshop)	Career awareness & planning	Strengthened decision-making skills	PO2 (Planning), PO5 (Leadership), PO6 (Professional Identity), PO11	Case study based and participative	DAAC assessed for employability orientation
8	Guest Lecture on Pharmacology Research	Explore research frontiers	Introduced students to ongoing pharma research	PO1 (Pharmacy Knowledge), PO4 (Tool usage), PO11	Expert presentation and discussion	DAAC reviewed under research culture promotion

List of Events for Academic year 2023-24

S. No.	Event Title	Statement of Clear Goals	Significance of Results	Pharmacy POs Addressed	Effective Presentation	Reflective Critique (DAAC Reviewed)
1	The Importance of Mental Health for Students	Raise awareness about student mental wellness	Promoted emotional resilience and academic performance	PO6 (Professional Identity), PO7 (Ethics), PO9 (Pharmacist & Society)	Talks with counseling experts	Reviewed in DAAC under wellness initiatives
2	Drug Abuse Awareness	Educate on dangers of drug abuse	Strengthened student responsibility and social awareness	PO6, PO7, PO9, PO11 (Lifelong Learning)	Charts, videos, expert interactions	Reviewed under social outreach programs
3	Webinar on Glimpses and Applications of Heterocyclic Chemistry	Explore applications in pharma synthesis	Improved academic knowledge in drug design	PO1 (Pharmacy Knowledge), PO11	Delivered by subject expert with visuals	Reviewed for subject enrichment in DAAC
4	TechPharm Rx Navigation: Pharmacy with Technolog	Introduce pharmacy-specific tech tools	Enhanced tech orientation in early years	PO4 (Modern Tools), PO2 (Planning Abilities), PO11	Demonstration-based sessions	Included in DAAC for digital competency tracking

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D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (10)

List of Events for Academic year 2024-25

S. No.	Event Title	Statement of Clear Goals	Significance of Results	Pharmacy POs Addressed	Effective Presentation	Reflective Critique (DAAC Reviewed)
1	One Day Workshop on ATIR - FTIR Spectroscopy	Skill-based knowledge delivery	Hands-on training in analytical techniques	PO1 (Pharmacy Knowledge), PO4 (Modern Tool Usage), PO11 (Life-long Learning)	Demos & expert lectures	Evaluated in DAAC for lab-based exposure
2	World Antibiotic Awareness Week in RIIMS	Promote responsible antibiotic use	Awareness of resistance and rational use	PO1, PO6 (Professional Identity), PO9 (Pharmacist & Society), PO7 (Ethics)	Talks, posters, outreach	DAAC reviewed under public health education
3	Best Out of Waste (Day 5)	Foster creativity and sustainability	Encouraged recycling and innovation	PO10 (Environment & Sustainability), PO2 (Planning Abilities), PO11	Student-driven exhibits	Reviewed in DAAC under eco-initiatives
4	Webinar on Breast Cancer	Awareness of disease prevention	Strengthened health knowledge	PO1, PO6, PO9 (Pharmacist & Society), PO8 (Communication)	Interactive session with Q&A	Discussed in DAAC as part of health outreach
5	Webinar on Global Labelling: Scope and Application	Familiarize with labelling standards	Industrial readiness and regulatory awareness	PO1, PO4 (Tool usage), PO6 (Professional Identity), PO8	Visuals, case studies, Q&A	DAAC evaluated for regulatory knowledge reinforcement
6	Internal Hackathon for SIH 2024	Drive innovation & solution design	Promoted problem-solving and tech-skills	PO2 (Planning), PO3 (Problem Analysis), PO4, PO5	Presentation of prototypes	Reviewed and shortlisted via DAAC/Innovation Cell

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Mapping of Industrial Visit with Program Outcomes

PO	Program Outcome	Relevance to Activity
PO1	Pharmacy Knowledge	Students observe real-time application of pharmaceutical manufacturing and QC processes.
PO2	Planning Abilities	Understand workflow, resource management, and scheduling in industrial settings.
PO4	Modern Tool Usage	Exposure to advanced instrumentation, automation, and GMP tools used in industry.
PO5	Leadership Skills	Observing team structures and supervisory roles within the organization.
PO6	Professional Identity	Understanding the pharmacist's role in production, R&D, QA, and regulatory departments.
PO7	Pharmaceutical Ethics	Insight into regulatory compliance, ethical standards, and documentation practices.
PO10	Environment & Sustainability	Learning about waste management, green chemistry practices, and environmental policies.
PO12	Life-long Learning	Motivates students to pursue industrial roles and update their skills for future needs.

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10. Industrial Visits

Industrial visits are organized to provide pharmacy students with first-hand exposure to real-world pharmaceutical operations. These visits offer practical insights into manufacturing processes, quality control systems, research and development, and regulatory practices. Such experiential learning helps students better understand their future professional roles and responsibilities, thereby enhancing their technical knowledge, operational awareness, and career readiness.

LIST OF INDUSTRIAL VISIT 2023-2024

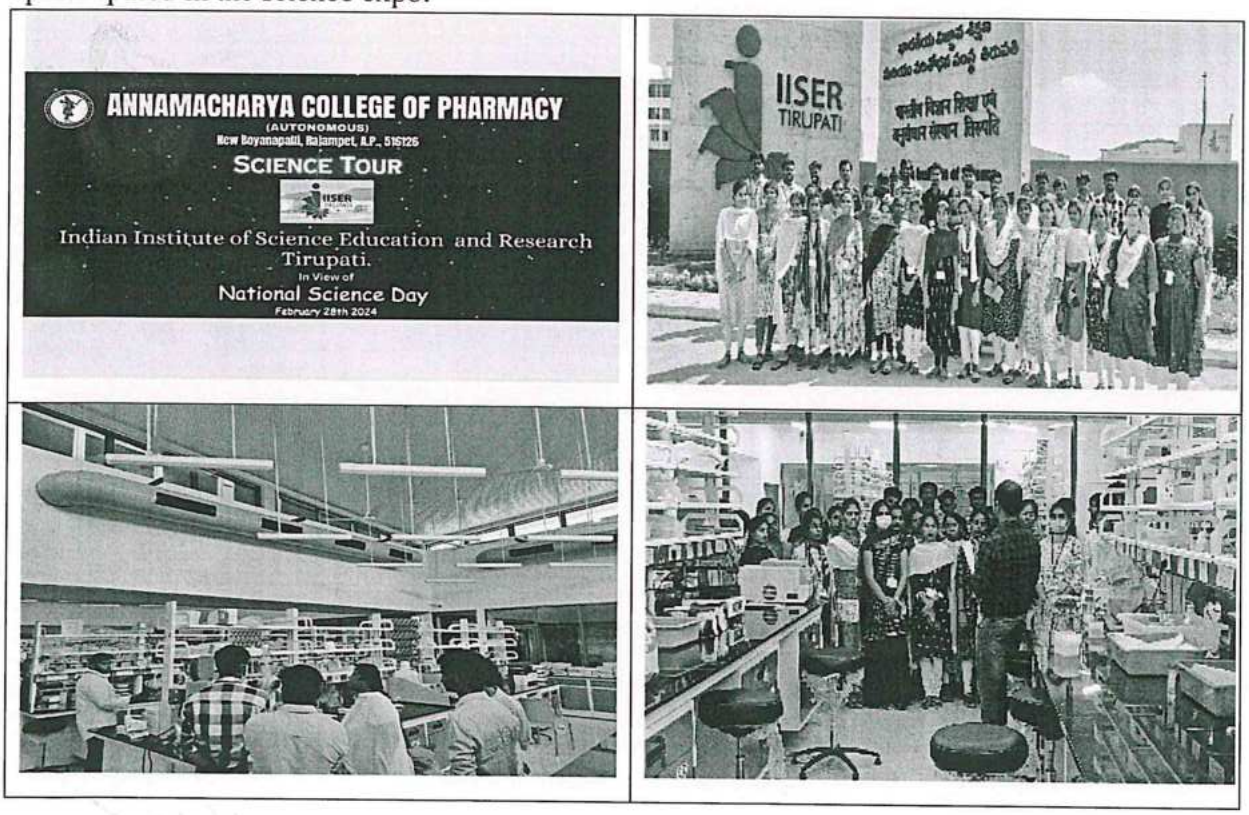
S.NO.	DATE	NAME OF THE INDUSTRY
1.	28-02-2024	INDUSTRIAL VISIT, IISER, TIRUPATI
2.	24-08-2024	INDUSTRIAL VISIT TO GIYAAN PHARMA PVT. LTD

INDUSTIRAL VISIT @ IISER - TIRUPATI

The INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, TIRUPATI was visited by B. Pharmacy students of Annamacharya College of Pharmacy, for an integral exposure on Science Tour and Visit.The Students were well exposed to physics and Biology laboratories for isolation of DNA and RNA isolation experiments. The students visited the Scientific Expo and gain the knowledge of new research on development of aeroplane wings.

Mrs. B. Nirmala Devi, Associate Professor, Department of Pharmacognosy,

Mr. V. Chinni Krishnaiah, Associate Professor, Department of Pharmacology and student team participated in the science expo.



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	CliniIndia				
6	Future Prospective In Pharmacy Practice And Its Opportunities	Guest Lecture	04-09-2022	Mr. Sridhar	115
7	Training on SAS programming in association with Skill yaari	Training Program	17-06-2023 & 18-06-2023	Ms.Indira Ghosh Mr.Akansha	60

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