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### TO WHOMSOEVER IT MAY CONCERN

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This is to certify that the information given in the attached documents are verified by me and is true to the best of my knowledge.

Nama liege of Pharmacy Dr.Sujith Varma.K National Co ssery, Kozhikode Principal NI: National College of Pharmacy

Manassery, Mukkam, Kozhikode



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Criterion 7	INSTITUTIONAL VALUES AND BEST PRACTICES
Key Indicator: 7.3	Institutional distinctiveness
Metric No : 7.3.1	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Sr. No.	Particulars
1	NCP JINGLES PODCAST
2	AUDIOVISUAL RESOURCES
3	ENHANCED STUDENT ENGAGEMENT
4	FILM AND MEDIA CLUB COLLABORATION
5	REELS COMPETITIONS AND PHOTOGRAPHY CONTESTS
6	WORKSHOPS ON AI & PERSONALIZED MEDICINE
7	HANDS-ON SOFTWARE TRAINING FOR PHARMACEUTICAL RESEARCH E-CELL
8	PHARMACY TRAINING
9	NURTURING INNOVATION: IEDC, IIC, AND E CELL



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### "ADAPTREND"

### ADAPTING TO CHANGING TRENDS FOR FUTURE-READY **GRADUATES**

#### Introduction

In the rapidly evolving landscape of education and employment, staying ahead of the curve is crucial for preparing future-ready graduates. NCP's commitment to adaptability and innovation is evident through its various initiatives in nurturing innovation, digital learning revolution, entrepreneurship, cutting-edge trends, cinematic insights, and pioneering training for future digital generation. This distinctive approach empowers students with the skills, knowledge, and mindset needed to excel in a dynamic world.

#### **Digital Learning Revolution:**

#### **NCP Jingles Podcast**

In an era driven by digital transformation, NCP has harnessed the power of digital media to redefine the learning experience through its "NCP Jingles" podcast. This innovative approach to education has revolutionized the way students engage with complex subjects.

#### **Engaging Audio Visual Resources**

NCP incorporates audiovisual resources that make complex subjects engaging and understandable. Students can access a diverse range of educational content, from lectures to interviews with industry experts. The use of multimedia promotes self-directed and exploratory learning, allowing students to dwelve deeper into topics of interest.

### **Enhanced Student Engagement**

At the National College of Pharmacy (NCP), the commitment in providing a transformative learning experience is exemplified by the incorporation of VR-based digital content that offers students a real-time classroom experience. NCP is redefining the way students engage with educational material This innovative learning method has not only captured students' interest but has also fostered engagement and enhanced understanding KOZHIKODE

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#### **AI in Pharmacy Workshop**

NCP recognizes the transformative potential of Artificial Intelligence (AI) in pharmacy. To equip students with the necessary knowledge and skills, the institution organizes workshops that delve into the integration of AI in drug discovery, personalized medicine, and patient care. These workshops provide students with insights into how AI is revolutionizing the pharmaceutical industry and shaping the future of healthcare.

#### **Personalized Medicine**

Tailoring Care to Individuals: Personalized medicine is a groundbreaking concept in healthcare, and NCP places it at the forefront of its curriculum. Workshops and educational sessions illuminate the significance of genomic data and advanced diagnostics in shaping personalized healthcare strategies.

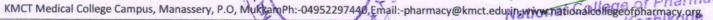
#### Hands-On Software Training for Pharmaceutical Research

NCP goes a step further in preparing future pharmacy leaders by providing hands-on training on cutting-edge software used in pharmaceutical research. This practical training equips students with skills in data analysis, computational drug modeling, and virtual drug screening. Such training enhances their research capabilities and prepares them to engage in pharmaceutical research that can drive innovation in the industry.

#### Nurturing Innovation: IEDC, IIC, and E-Cell

NCP's commitment to fostering innovation is exemplified through its Innovation and Entrepreneurship Development Centre (IEDC), Institution's Innovation Council (IIC), and Entrepreneurship Cell (E-Cell).

Workshops, Seminars, and Ideathons: NCP's innovation ecosystem is enriched with a plethora of activities aimed at nurturing creativity. Workshops and seminars provide students with opportunities to learn from industry experts, gaining insights into emerging trends and technologies. Ideathons, on the other hand, encourage students to think critically and develop innovative solutions to real-world problems. These events not only foster an environment where creativity thrives but also help students gain practical problem-solving skills.



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#### **Cinematic Insight: Film and Media Club Collaboration**

NCP's collaboration with the Film and Media Club adds a unique dimension to the students' learning journey by tapping into their creative reservoirs and promoting interdisciplinary exploration.

#### **Reels Competitions and Photography Contests**

The collaboration with the Film and Media Club gives students the opportunity to participate in reels competitions and photography contests. These events encourage students to explore their creative talents and express themselves through visual media. It nurtures skills such as storytelling, cinematography, and visual aesthetics.

#### **Utilization of KMCT Mini Theatre**

To facilitate critical analysis and interdisciplinary exploration, NCP makes use of the KMCT mini theatre to screen films. This practice not only enhances visual literacy but also promotes cultural awareness by exposing students to diverse cinematic experiences. It encourages students to think critically about the messages conveyed in films and how they relate to broader societal themes.

#### **Teamwork and Cultural Awareness**

Collaboration with the Film and Media Club fosters teamwork among students as they work together on creative projects. It also enhances cultural awareness by exposing students to different cinematic traditions and perspectives. This interdisciplinary approach to learning prepares students to think creatively and critically in an interconnected world.

#### **Pioneering Training for Future Pharmacy Leaders**

In the field of pharmacy, staying at the forefront of advancements is essential. NCP's proactive approach to training pharmacy students in cutting-edge trends ensures that they are well-prepared to meet the evolving demands of the healthcare industry.

ONAU 673602 National College of Pharmacy KMCT Medical College Campus, Manassery, P.O. MukkamPh:-04952297440,Email:-pharmacy@kmct.edu in.www.nationalcollegeofpharmacy.org

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**Strong Institutional Support:** NCP provides robust institutional support for its innovation initiatives. This support includes access to cutting-edge facilities, mentorship from experienced faculty members, and funding opportunities for promising projects. Such support empowers students to pursue their entrepreneurial ambitions and turn their innovative ideas into reality.

National Entrepreneurship Challenge (NEC): NCP's dedication to fostering entrepreneurship is evident by its participation in the National Entrepreneurship Challenge organized by IIT Bombay. This competition serves as a platform for students to showcase their entrepreneurial acumen. NCP's remarkable first prize victory in this competition not only brought recognition but also earned the institution a cash prize and coveted online courses, further enhancing the students' entrepreneurial skills.

National College of Pharmacy's distinctiveness lies in its unwavering commitment in preparing future-ready graduates who are equipped to adapt and innovate in a rapidly changing world. Through its focus on nurturing innovation, leveraging the digital learning revolution, promoting cinematic insights, and providing pioneering training in pharmacy trends, NCP has created an educational ecosystem that prepares students not only with knowledge but also with practical skills and a mindset that encourages creativity and adaptability.



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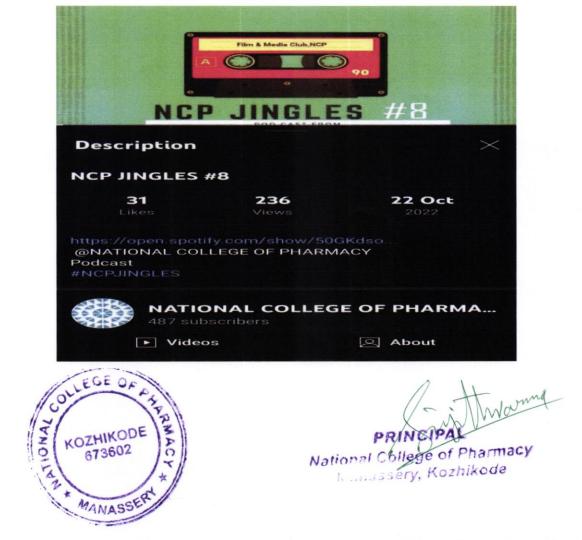


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### DIGITAL LEARNING REVOLUTION: NCP JINGLES PODCAST

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https://youtu.be/mgUlkjyuJP0?si=ifo-uiZjU-\_eunzc





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#### ENHANCED STUDENT ENGAGEMENT

At the National College of Pharmacy (NCP), the commitment to providing a transformative learning experience is exemplified by the incorporation of VR-based digital content that offers students a real-time classroom experience. Through the innovative use of Virtual Reality, NCP is redefining the way students engage with educational material This innovative learning method has not only captured students' interest but has also fostered engagement and enhanced understanding.

#### USE OF INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

URL of YouTube videos

https://youtu.be/RnDydlfE31k

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#### **COMPUTER LABORATORY**

A computer laboratory is available for the students, which have adequate computers, internet connectivity, and a projector to support practical sessions. In addition, the college provides access to software packages such as Ex-Pharm, which is used for pharmacology practical. English Language Laboratory Software, which is used for communication skills, etc.



Computer laboratory



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#### SMART CLASSROOMS

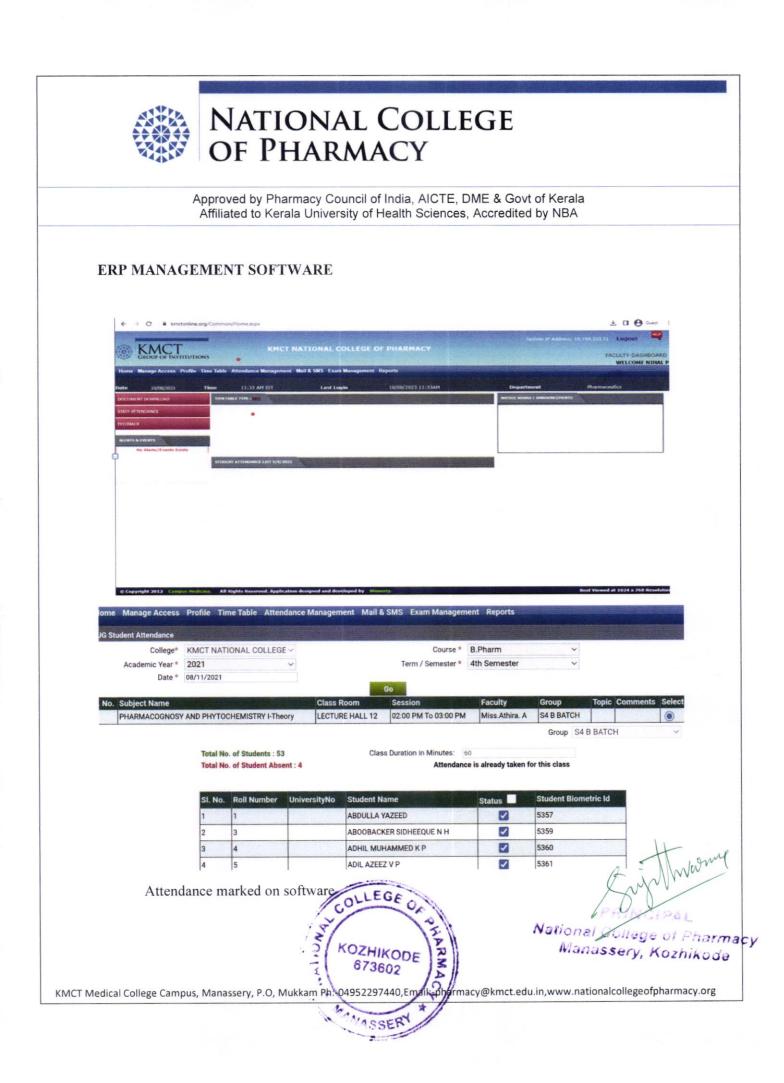


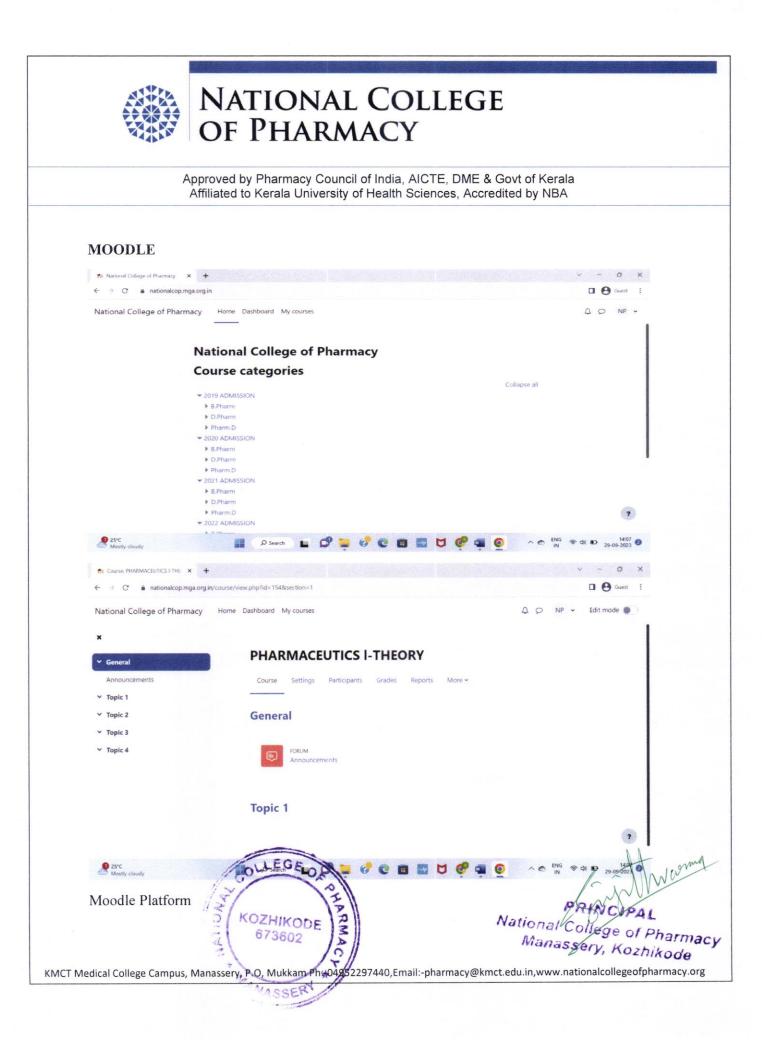
PowerPoint presentations and video presentations are used by both faculty and students for easy understanding and proper comprehension of the acquired knowledge.



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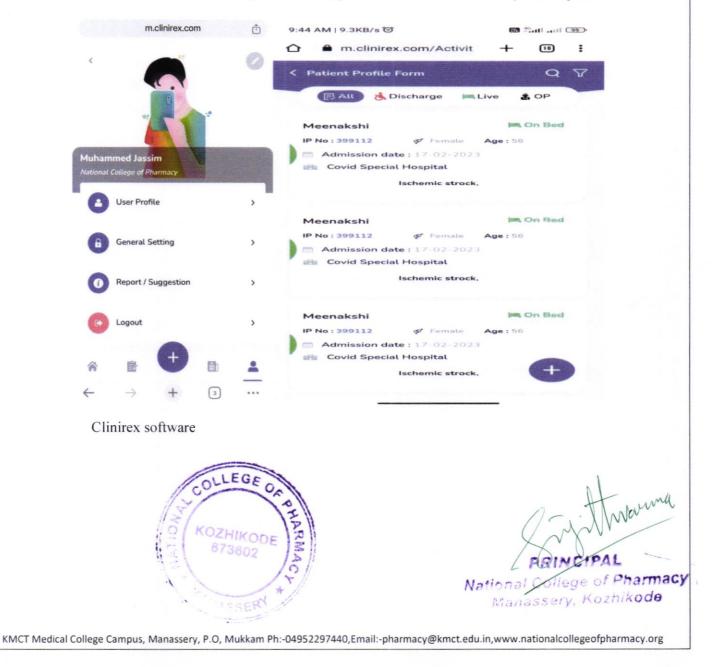




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#### CLINIREX

Clinirex, a software which is used by PharmD graduates. It has the facility of E- log book, drug information, research articles, drug information, profile addition and also many more options.

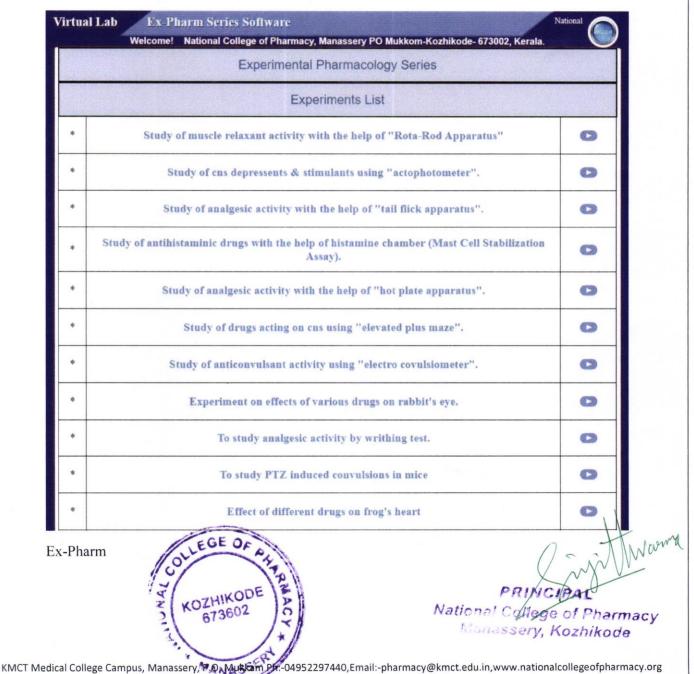




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#### **EX-PHARM**

Ex-Pharm is a computer assisted learning (CAL) software, containing various programs which simulate animal experiments in pharmacology.





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4. Drug Therapy

EBSCO training program



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### SHORT FILM COMPETITION

National College of Pharmacy bagged third prize in short film competition held by Kerala state Pharmacy council. Dr.Kannan S received cash prize and certificate on behalf of National College of Pharmacy.



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Short film competition

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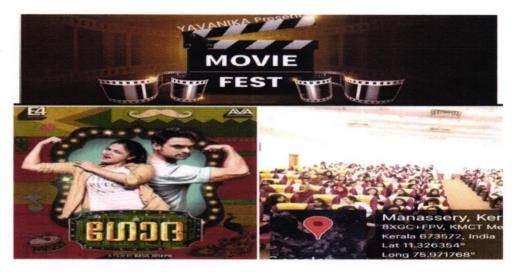
#### AESTHETE





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### **MOVIES FEST**



Movies fest conducted at NCP



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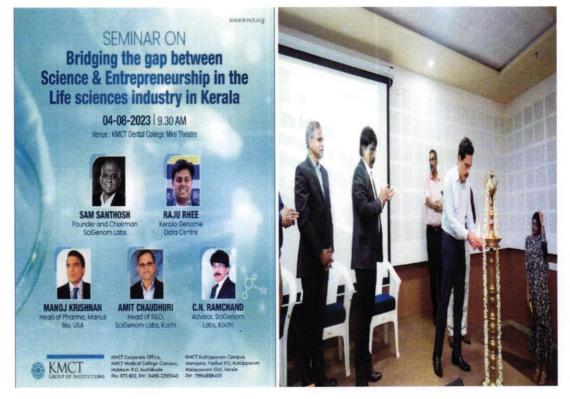
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### PERSONALIZED MEDICINE

Tailoring Care to Individuals: Personalized medicine is a groundbreaking concept in healthcare, and NCP places it at the forefront of its curriculum. Workshops and educational sessions illuminate the significance of genomic data and advanced diagnostics in shaping personalized healthcare strategies. By understanding how to tailor medical treatments to individual patients, NCP's students are prepared to contribute to the advancement of healthcare practices



Bridging the Gap between Science and Entrepreneurship in the Life Sciences Industry in Kerala



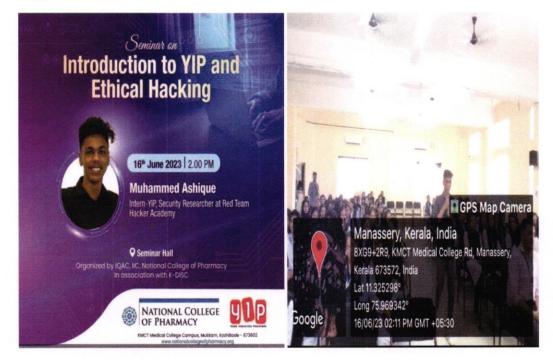
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### ETHICAL HACKING

Webinar on Ethical hacking by Youngest hacker Mr.Muhammed Ashique (World record Holder) conducted in Association with K-Disc and IIC, IQAC National College of Pharmacy.



Ethical hacking session



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#### TRAINING PROGRAM

National College of Pharmacy recently hosted a two-day hands-on training program on molecular modeling techniques in drug discovery at its Seminar Hall on 24th and 25th of May, 2023. The program was coordinated by Ms. Rejitha K and Ms. Athira.B on behalf of the Department of Pharmaceutical Chemistry. The program was inaugurated by Dr. Balasubramaniam, Research Coordinator, KMCT Group, and welcomed by Dr. Akash Marathakam, Vice Principal of National College of Pharmacy. Delegates from various colleges attended the conference and hands-on session, which was led by the eminent personality, Dr. Abi TG, Associate Professor and research guide in Chemistry, Sacred Heart College, Thevara. The program aimed to provide post-graduate students from colleges offering a post-graduate degree in pharmaceutical chemistry with advanced knowledge and practical skills in molecular modeling, docking, and simulation. AutoDock, a powerful software tool widely used in the pharmaceutical industry for predicting the binding of small molecules to macromolecular targets, played a critical role in the drug discovery process.





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#### WORKSHOP

KMCT Group of Institutions invited Mr.Vignesh Waran, Founder and CEO of Virtual Frontier Robotics on Friday 24th March 2023 for an indepth understanding of 3D designing and 3D printing. The students were delighted to have gained valuable knowledge from his expertise. The interactive workshop gave the students and faculty a clear cut idea on the processes ,types and applications of 3D designing and printing particularly emphasising on the medical field. The one day workshop included live designing of a keychain from scratch and the event was concluded with enquiries fuelled by curiosity.Mr.Vignesh discussed that this indeed is a soft skill to be developed in modern days irrespective of one's career paths and entertained us with his hilarious experiences with various school students across South India. The students were encouraged to send in their own designs as a homework. The event was executed by Mr.Rony K Roy,Innovation and Incubation Officer of KMCT Innovation and Incubation Centre . The students of National college of pharmacy (KMCT Group of Institutions) have attended the event and interacted with chief guest





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#### HANDS-ON SOFTWARE TRAINING FOR PHARMACEUTICAL RESEARCH:

NCP goes a step further in preparing future pharmacy leaders by providing hands-on training on cutting-edge software used in pharmaceutical research. This practical training equips students with skills in data analysis, computational modeling, and virtual drug screening. Such training enhances their research capabilities and prepares them to engage in pharmaceutical research that can drive innovation in the industry.





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### PIONEERING TRAINING FOR FUTURE PHARMACY LEADERS

In the field of pharmacy, staying at the forefront of advancements is essential. NCP's proactive approach to training pharmacy students in cutting-edge trends ensures that they are well-prepared to meet the evolving demands of the healthcare industry.

#### INDUSTRIAL VISIT

Each year, students from NCP are provided with a chance to tour a well-established pharmaceutical company, and a significant proportion of the student body takes advantage of this opportunity.



Industrial visit of B pharm students in PURE AND CURE HEALTH CARE pvt. ltd Haridwar at 25 april 2023



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#### **NIPER Hyderabad**

The students of National College of pharmacy have visited NIPER Hyderabad on 15th February 2023. The students were given orientation sessions on the Basics and the importance of research in developing new drug molecules. They also visited various facilities available in the institute. Dr Vasundra Bandari, Assistant professor NIPER assisted the students during the visit



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#### CYBERPARK VISIT

The E cell members of National college of pharmacy visited KSUM (Cyberpark) Kozhikode on 9th May. The students had a good interaction with the CEO Adish Chakyery and his team members Afsal Niyas and Abhirami. The students got to know the struggles, intricacies and the joys of building and being in a startup. They also came to know how they're growing despite being from different fields, how they're levelling up and the importance of collaboration especially when it coms to marketing and constantly. The day was facilitated and coordinated by KMCT GROUP OF INSTITUTIONS, KERALA 's KMCT Innovation and Incubation Centre (KIIC) and IEDC, NATIONAL COLLEGE OF PHARMACY. Ms Sareena, Assistant Nodal officer accompanied students.



Cyberpark visit



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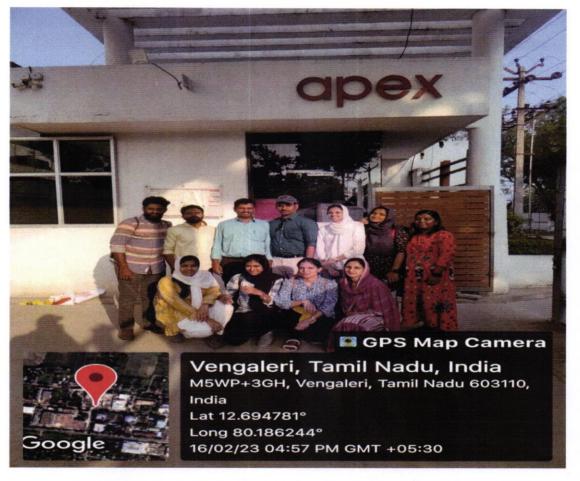
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#### APEX PHARMACEUTICALS INDUSTRY

The students also visited the Apex Pharmaceutical Industry at Alathur, Tamilnadu on 16th February. They have gained knowledge related to various regulatory requirements involved during drug manufacturing processes. Dr S Kathirvel, Professor of National College of Pharmacy has associated the students during the visit.



Apex Pharmaceutical Industry at Alathur, Tamilnadu on 16th February 2023



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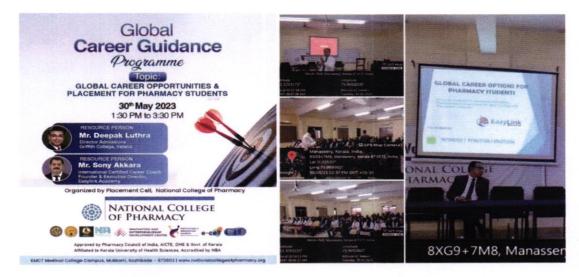
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#### **GLOBAL CAREER PROGRAMS**

Dr. Deepak Luthra, the Director and Dean of Admissions at Griffith University, Ireland, delivered an intriguing lecture on global career opportunities for pharmacy students. The event was attended by Mr. Sony Akkara. The inauguration of the event was done by Dr. Sujith Varma K, Principal, NCP while Cyril Mathew warmly welcomed the gathering. The program was efficiently coordinated by Mr. Anilkumar and Mr. Abdu Rahiman on behalf of the Placement Cell.



Global career program



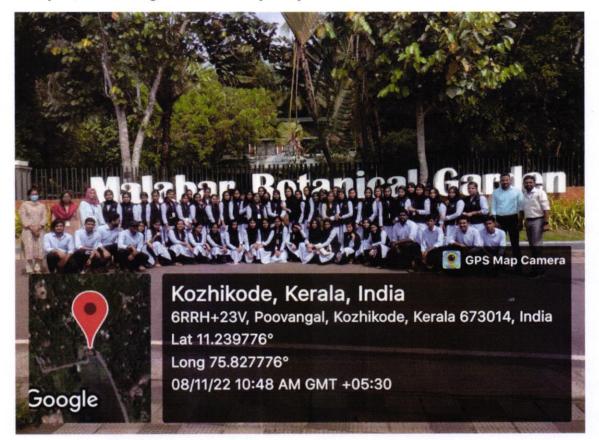
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#### FIELD VISIT

Each year, we encourage our students to participate in field visits.



Botanical Garden visit at Malabar Botanical Garden Poovangal, Kozhikode on 08/11/2022



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#### STARTUP INCUBATOR VISIT

IEDC KMCT National College of Pharmacy and E-Cell conducted a startup incubator visit to NIT Calicut Technology Business Incubator on 11/04/2023. TBI Administrative officer Mr. Vijith Kumar C.V. gave orientation about the available programs, funding opportunities and how TBI facilitates the startup incubation process. CEO of TBI, Dr. Preethi Manniledam highlighted the track of TBI platforms and the outcome. Founder of MedGyor Pvt. Ltd., Mr. Dinoj Joseph led the interactions to practical session, narrating the journey and by showcasing the products. MedGyor is an IIT Bombay Based startup (incubated here at TBI) specialised in product design, marine, aerospace, and automotive scale modelling and prototyping. It was truly inspiring to see so many talented entrepreneurs and innovators working on cutting-edge technologies and bringing their ideas to life. We're grateful for the opportunity to learn from and connect with such a vibrant community of changemakers."



Startup incubator visit to NIT Calicut Technology Business Incubator



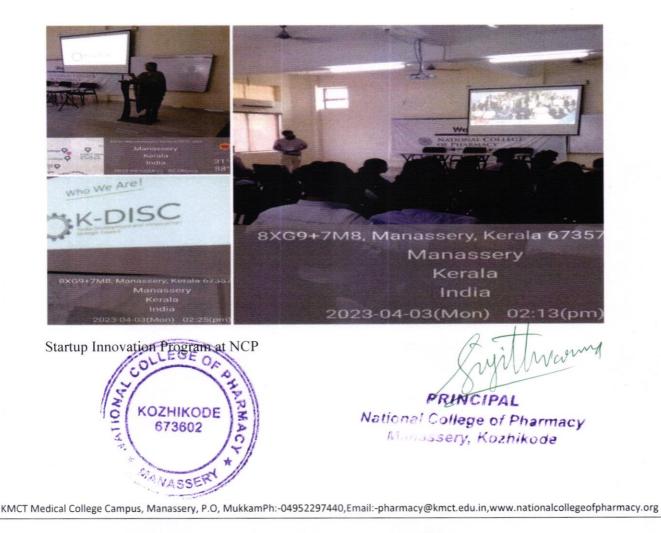
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#### START-UPS AND INNOVATION PROGRAMS

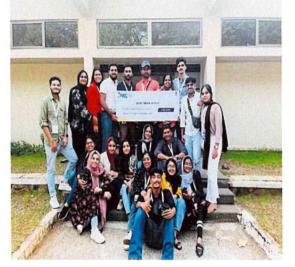
On 3rd April 2023, IIC, IEDC and E cell wing of National College of Pharmacy (NCP)along with its sister institutions KMCT Ayurveda Medical college and KMCT college of engineering for emerging technologies invited Ms Anu Maria- District Officer of K DISC and Mr Sreedeep District co ordinator of K DISC to motivate the younger students of KMCT Group of institutions about the importance of start-ups and innovation ecosystem in the college campus. The audience which included teachers and students were given a chance to register under the K DISC. The students were given chance to submit their ideas though the YIP Programme. The session started at 2 pm and concluded at 4pm. Dr Kathirvel, IIC President of NCP gave the welcome address and the vote of thanks was proposed by E Cell student coordinator Ms Nawal Abdu Kareem





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Won First Prize and Received Cash Prize of Rs 70,000 in National Entrepreneurship Challenge (NEC) conducted by IIT Bombay, January 2023





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### SESSION ON HOW TO PLAN FOR START UP AND LEGAL AND ETHICAL STEPS

The IIC, IEDC and E cell wing of National College of Pharmacy (NCP) aim is to systematically foster the culture of Innovation and to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. In order to create a research environment for acquiring new knowledge through innovation and to promote inter disciplinary research activity and also to motivate faculty and students, NCP has conducted seminar on How to plan for start-up and Legal & Ethical steps on 30th May, 2023 . Dr Rajesh, Professor, Dept of Pharmaceutics, Hindu college of Pharmacy, Guntur, Andhra Pradesh was the Resource person. Diploma, B.Pharm, M.Pharm, Pharm D students of NCP and other sister institutions participated in the event and interacted with the chief guest.

