

MALLA REDDY VISHWAVIDYAPEETH

MRV NEWS



Malla Reddy Vishwavidyapeeth

Malla Reddy Vishwavidyapeeth , a Deemed-to-be University in Hyderabad, houses 14 institutions across medicine, dental, nursing, pharmacy, and engineering. It blends academics with clinical training, research, and innovation to shape skilled professionals. With a focus on excellence, empowerment, and social responsibility, MRV is committed to creating future leaders in healthcare and education.

Month:
September

Release Date:
05-09-2025

Volume:
1

About Malla Reddy Vishwavidyapeeth :

"Malla Reddy Vishwavidyapeeth" (MRV) Deemed to be University is sponsored by the Chandramma Educational Society (CES) founded in 2002 by Shri. Ch. Malla Reddy who visioned to evolve a Center of Excellence in the field of education viz Medical Sciences, Dental Sciences, Allied Healthcare Sciences, Pharmaceutical Sciences, Nursing Sciences, Engineering & Technology by creating world-class infra-structure, introducing innovative inter-disciplinary programs, hiring well-qualified and globally trained faculty, nurturing research and innovation, establishing partnerships with industries, fostering international collaborations, promoting talent and engaging in outreach activities.

Encompassing a sprawling 75-acre campus, MRV boasts state-of-the-art facilities within academic, administrative and amenity blocks. The cosmopolitan ambiance attracts a diverse student population from across the globe, fostering an environment conducive to learning. This atmosphere provides access to experienced teaching faculty with international exposure, nurturing students' creative abilities and encouraging new innovations through knowledge partnerships. Our curriculum includes cutting-edge technologies and innovative coursework, preparing students to navigate the dynamic developments in the contemporary world.

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Welcome to the official newsletter of Malla Reddy Vishwavidyapeeth (MRV) a space where knowledge meets innovation and education transforms into impact.

In this edition, we bring you stories of growth, achievement and inspiration from across our campus. From academic milestones and research innovations to cultural highlights and student initiatives, the MRV Newsletter is your window into the vibrant life of our university.

Together, let's celebrate the spirit of learning, leadership and progress that defines MRV.

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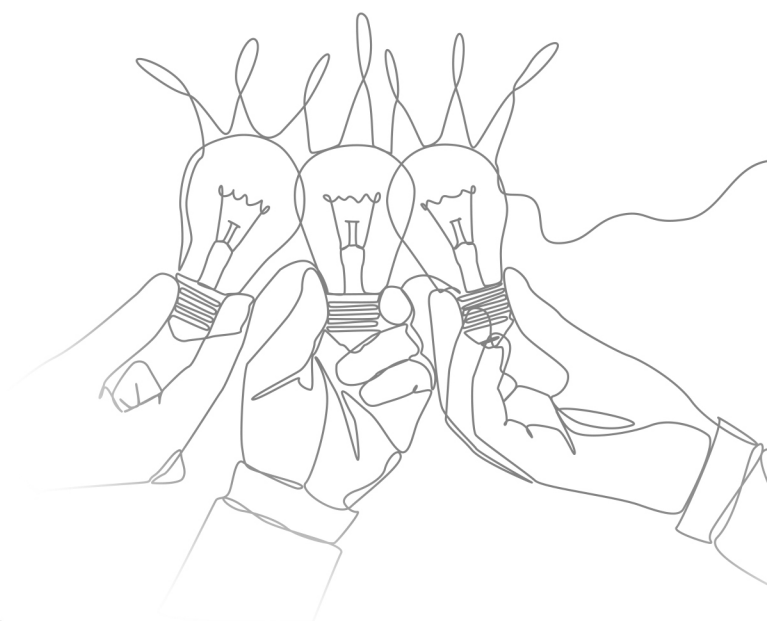
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Malla Reddy Technical Campus

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STATE- LEVEL RECOGNITION FOR DEVICE "REVIVE LIMB"

PERIPHERAL LIMB WOUND HEALING WITH O2IR, A PORTABLE THERAPY FOR CHRONIC ULCERS, AIMED AT MANAGING DIABETIC FOOT ULCERS AND IMPROVING QUALITY OF LIFE FOR PATIENTS ACROSS INDIA.

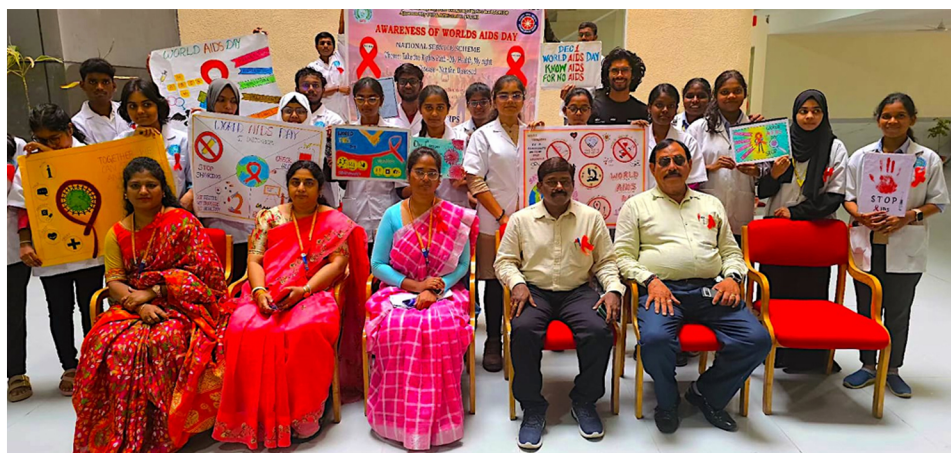
We are proud to announce that Dr. Ellojita Rout (Scientist-III) and Dr. Vikas Sahu (Chief Innovation Officer) has been honoured with a prestigious national award presented by Hon'ble Shri Jitan Ram Manjhi, Minister of Micro, Small and Medium Enterprises (MSME), Government of India. This award celebrates the successful acquisition of the MeitY TIDE grant for

the development of "Revive Limb", a cutting-edge healthcare innovation designed to manage diabetic foot ulcers. The solution integrates medical technology with patient-centred care to address one of the most debilitating complications of diabetes. The recognition was presented in coordination with WeHub ALEAP, Hyderabad, a key partner in fostering

innovation and entrepreneurship in the health-tech space. This honour is a testament to the transformative impact of interdisciplinary research and collaborative innovation in addressing critical public health challenges. Venue: Award Ceremony held in Association of Lady Entrepreneurs of India, Women Entrepreneurs Hub (WeHub ALEAP), Hyderabad Recipients: Dr. Ellojita Priyadarshini Rout and Dr. Vikas Sahu



WORLD AIDS DAY WITH THE THEME : TAKE THE RIGHT PATH- MY HEALTH,MY RIGHT



the event was a resounding success, fostering a sense of responsibility among students to contribute to a world free from HIV-related stigma and discrimination. The efforts of the organizing committee, faculty, and student volunteers played a crucial role in making the day both educational and impactful. Looking forward, more such initiatives should be encouraged to keep the conversation around HIV/AIDS ongoing and to ensure that awareness continues to spread beyond just one day.

commemorated with great enthusiasm and awareness at Malla Reddy Institute of Pharmaceutical sciences on December 2st. The event was a significant initiative aimed at spreading awareness, breaking the stigma, and educating students about HIV/AIDS prevention and treatment. The program kicked off with an insightful seminar featuring guest speakers, including knowledgeable professors, who shared crucial information about the impact of HIV/AIDS and the importance of early detection, safe practices, and support for affected individuals. Their speeches were both informative and inspiring, encouraging students to actively engage in spreading awareness.

A highlight of the event was the interactive session, where students participated in quizzes, discussions, posters and role-play activities to enhance their understanding of HIV/AIDS. The event also included enchanting the slogans which spread the awareness of AIDS. Overall,



AWARENESS PROGRAM ON MANUSCRIPT WRITING, JOURNAL IDENTIFICATION, AND SUBMISSION

The program aimed to equip faculty and postgraduate scholars with practical skills for improving manuscript quality and selecting reputable journals indexed in Scopus and Web of Science. Dr. Neema Kumari delivered a session on "Manuscript Writing Basics: Key



Steps and Common Mistakes to Avoid", covering core elements such as structuring articles (IMRaD), crafting precise titles and abstracts, preparing reproducible methods, presenting results effectively, ensuring ethical compliance, and avoiding predatory



journals. Dr. Jayachandran Venkatesan presented on “Journal Finder & Quartile Ranking (Q1–Q4) Guide”, emphasizing journal scope matching, impact factor analysis, indexing checks, and submission essentials for a smooth peer-review process. The sessions provided actionable insights to help researchers produce high-quality, credible, and well-targeted scientific publications.



NATIONAL CONFERENCE ON “DEMYSTIFYING RESEARCH METHODOLOGY IN NURSING”

Malla Reddy College of Nursing, A Constituent college of Malla Reddy Vishwavidyapeeth (Deemed to be University), Suraram, Hyderabad, successfully conducted its first-ever National Conference titled “Demystifying Research Methodology in Nursing” on July 24–25, 2025. The two-day event marked a significant milestone for the institution, representing its growing emphasis on research and evidence-based practice in nursing education. The conference was organized under the visionary leadership of Founder Chairman Shri Ch. Malla Reddy Garu and the able guidance of Chairman Dr. Ch. Bhadra Reddy Garu, & Vice Chairman Dr. Ch. Preeti Reddy Garu whose unwavering support has been instrumental in fostering academic excellence across the institution. The inaugural session was graced by

distinguished dignitaries including Dr. Sudha Ramana, Hon'ble Chancellor of MRV, Dr. Bala Krishna Shetty, Vice-Chancellor of MRV, and Prof. B. Vidyavati, Registrar of the Telangana Nurses and Midwives Council. The theme of the conference was formally introduced by Dr. N. Balasubramanian, Dean, Malla Reddy College of Nursing. The conference drew participation from over 213 delegates representing various nursing institutions from across Telangana and other states. The event served as a dynamic platform for academic discourse, exchange of best practices, and promotion of research culture in the nursing profession. A series of expert lectures were delivered by renowned speakers from different parts of India, covering critical topics such as research design, hypothesis framing, sampling techniques, qualitative and

quantitative methods, data analysis, and scientific writing. These sessions highlighted the significance of innovation, critical inquiry, and scientific rigor in nursing practice. In addition to the academic sessions, the event featured poster presentations and content writing competitions, allowing students and professionals to showcase their research ideas and engage in scholarly dialogue. To assess the impact of the sessions, a pre-test and post-test evaluation was conducted. The results showed a marked improvement in the participants' understanding of research methodology, demonstrating the effectiveness of the conference. This national conference not only provided a platform for learning and collaboration but also underscored the institution's commitment to advancing nursing education through high-quality research and academic excellence.



BIOINSPIRED INDIRECT ADHESIVE RESTORATION – CERAMIC VENEERS, CROWNS & ONLAYS.

The Department of Prosthodontics successfully conducted a Continuing Dental Education (CDE) program titled "Bioinspired Indirect Adhesive Restoration – Ceramic Veneers, Crowns & Onlays". The event focused on modern, minimally invasive, and esthetically driven indirect restorative techniques. The program aimed to enhance participants' understanding of bioinspired dental concepts and their clinical application. Objectives of the Program Introduce bioinspired and biomimetic approaches in restorative dentistry. Understand indications and case selection for ceramic veneers, crowns, and onlays. Explore selection criteria for restorative materials. Demonstrate conservative tooth preparation protocols. Present advanced adhesive cementation techniques and troubleshooting.

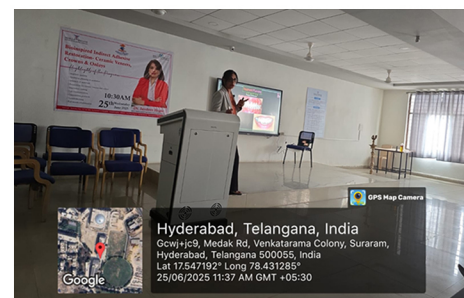
Program Highlights: Aesthetic and smile design analysis. Treatment planning with esthetic focus. Veneer and onlay preparation protocols. Impression and temporization techniques. Lab communication and workflow integration. Adhesive cementation protocols. Troubleshooting and long-term success. Full mouth rehabilitation approach. **Hands-on Component:** A live hands-on demonstration on veneer preparation was conducted by the guest speaker, offering participants the opportunity to observe real-time clinical steps and clarify technique-sensitive procedures.



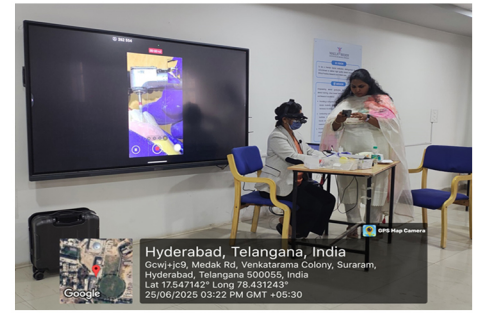
Guest Speaker Profile:

Dr. Jayshree Hegde Anil MDS, Restorative Dentistry and Endodontics. Dr. Jayshree Hegde Anil is a renowned clinician and educator in conservative and esthetic dentistry. She completed her BDS and MDS from GDC affiliated with Bangalore University and began her teaching career in 1996. From 2009 to 2013, she headed the Department of Conservative Dentistry and Endodontics at The Oxford Dental College, Bangalore. She currently serves as the Clinical Director at Ridgetop Dental International, Bangalore, and is actively involved in advanced dental care. A respected academic and speaker, she is a member of various professional bodies including: Indian Association of Conservative Dentistry & Endodontics, American Academy of Cosmetic Dentistry, Indian Academy of Aesthetic & Cosmetic Dentistry, Indian Dental Association, Indian Board of Microrestorative and Endodontics (Vice President). She has authored two

books: Prep Manual in Endodontics, Concise Conservative Dentistry and Endodontics (Elsevier). Her clinical expertise spans microscopic endodontics, esthetic makeovers, indirect restorations, and full mouth rehabilitation. She is also known for her engaging lectures across national and international platforms. Beyond dentistry, Dr. Hegde is passionate about music and traveling. Participants A total of 112 participants attended the program, including staff and postgraduate students from multiple institutions. Staff: MRIDS: 19, MRDCW: 13, Other Colleges: 8, Students: MRDCW: 23, MRIDS: 17, Other Colleges: 30. **Conclusion:** The CDE program was a resounding success, praised for its clinical relevance, expert delivery, and interactive format. The live demonstration by Dr. Jayshree Hegde Anil significantly enriched the learning experience, bridging theory with hands-on clinical application. The Department of Prosthodontics remains committed to providing such impactful educational experiences in the future.



Organized by: Department of Prosthodontics and Department of endodontics. Malla Reddy Institute of Dental Sciences. In collaboration with Malla Reddy Dental College for Women
Date & Time: Wednesday, 25th June 2025 at 10:30 AM. **Venue:** 4th floor, lecture Hall 3, Suraram X Roads, Jeedimetla, MRIDS, Quthbullapur, Hyderabad, Telangana – 500055.



EMPOWERING FUTURE RESEARCHERS: CPD WORKSHOP ON ICH-GCP PRINCIPLES AT MRIMS

In a significant step toward advancing clinical research education, the Department of Pharmacology at MRIMS, in association with the Malla Reddy Clinical Research Unit (MRCRU), hosted a Continuing

Professional Development (CPD) workshop on “Principles of ICH-GCP” Led by Dr. E. Kranti Kiran Reddy, the event reflected MRIMS’s commitment to fostering ethical, research-oriented clinicians. A highlight was Dr. Yuvaraj

Srinivasan’s session on AI in clinical research. Dr. Somnath Motgi shed light on the core principles of GCP, while Dr. T. Rohit Singh delivered key insights on the informed consent



DRIVING QUALITY FORWARD: CLINICAL TRIALS DAY 2025 CELEBRATED AT MALLA REDDY VISHWAVIDYAPEETH

To mark International Clinical Trials Day, Malla Reddy Vishwavidyapeeth, in collaboration with ISCR, hosted a symposium on "Quality-Centric Clinical Trials," bringing together stakeholders from academia, industry, and CROs. Sessions explored sponsor-driven innovation, CRO perspectives, investigator roles, and academic contributions. A key highlight was Dr. Kranti Kiran Reddy's session on the vital role of Site Management Organizations in improving trial efficiency. Later, Dr. Vikas Sahu moderated a dynamic panel on "Digital & Decentralized Trials," featuring voices from leading research organizations. Dr. Yuvaraj Srinivasan offered insights into the operational and ethical

challenges of digital trials. The event reflected MRV's commitment to advancing clinical research excellence, aligning with ISCR's mission of putting "Patients First." & Decentralized Trials," featuring voices from leading research organizations. Dr. Yuvaraj Srinivasan offered insights into the operational and ethical challenges of digital trials. The event reflected MRV's commitment to advancing clinical research excellence, aligning with ISCR's mission of putting "Patients First." Dr. Vikas Sahu (Chief Innovation Officer, MRV – Moderator); Dr. Yuvaraj Srinivasan (Head, Clinical Research Unit, MRV); Dr. N. Srinivasa Rao (Medical Superintendent, MRNH; Member Secretary, MRMWCWIEC);



Raviteja Adapa (ISCR South Chapter Member, Head Clinical Operations, Syngene International Limited); Dr. Sridivya Palacharla (CEO & Founder, SafeVig Solutions Pvt. Ltd); Kavitha Gurram (Director, Project Management - RWE, IQVIA; ISCR RWE Council Chair); Mr. Mujeebuddin CS.Organizing Secretary; Dr. Yuvaraj Srinivasan, Dr. Kranti Kiran Reddy, Dr. Vikas Sahu and Mr. Mujeebuddin CS. Participants: Approximately 140 attendees, including faculty, undergraduate, and postgraduate students from medical, pharmaceutical, and life science disciplines of Malla Reddy Vishwavidyapeeth and other institutions.



THE INTERNATIONAL YOGA DAY TITLED YOGA FOR ONE EARTH ,ONE HEALTH WAS CELEBRATED AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES

The international yoga day titled yoga for one earth ,one health was celebrated at Malla Reddy institute of pharmaceutical sciences on 21st June 2025 .The yoga trainer P.SANTHOSH From Bharath scouts and guides trained us . He gave a session regarding the importance of yoga in our daily life. We had a wonderful experience attending the Yoga Day session! The instructors were knowledgeable and provided clear guidance on various yoga postures and breathing techniques. Thank you so much for taking the time to provide your



valuable feedback on our Yoga Day session! We appreciate your kind words about our instructors and the session structure. Your suggestions for improvement are invaluable, and we'll definitely consider them for future sessions. We're glad you had a positive experience and look forward to welcoming you again soon!"

SWARNIM BHARAT: VIRASAT AUR VIKAS 76TH INDIA REPUBLIC DAY CELEBRATIONS

On 26TH JAN 2025, our college celebrated India's 76th Republic Day with great enthusiasm and patriotic fervor. The event was a grand success as our beloved chief patron, chairman of Malla Reddy group of Institutions Ch. Malla Reddy gave his valuable presence and made the event success, thanks to the collective efforts of the students, faculty, and staff. Highlights of the Celebration- The day began with the hoisting of the national flag by our esteemed Principal Dr B RAJ KAMAL sir. The National Anthem was sung with great pride and passion by the students and faculty. A speech was delivered by principal sir Dr. B Raj kamal sir then our beloved administrative officer Mr. Virendra Shukla sir gave a motivational speech which made us more passionate, Then our HOD Ma'am enlightened the aura by her speech and also highlighting the significance of .



Republic Day and the importance of upholding the values of our Constitution.

WOMEN'S DAY CELEBRATION AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES

on March 8th was a remarkable and memorable event that highlighted the spirit of womanhood and empowerment. The college campus was filled with energy, joy, and enthusiasm as students, faculty, and staff came together to celebrate this special day. The event commenced with a warm welcome from the host, followed by a beautiful prayer song that set a positive tone for the day. The Principal of our college delivered an inspiring speech emphasizing the importance of gender equality and the role of women in shaping society. A series of engaging activities were organized throughout the day, including cultural performances, skits, and dance performances, which

showcased the diverse talents of our students. The highlight of the event was the discussion featuring successful life of Ahilyabai Holkar. This gesture of appreciation was warmly received and added to the celebratory atmosphere.



The celebration concluded with a vote of thanks, followed by a small refreshment session where students and faculty had the opportunity to

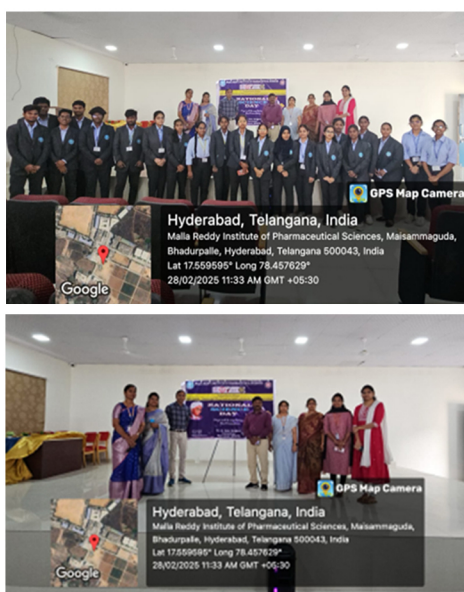
interact and share their thoughts on the event. The entire day was a reminder of the strength, resilience, and capabilities of women, and it left everyone inspired and motivated. Overall, the Women's Day celebration at Malla Reddy Institute of pharmaceutical sciences was a grand success and served as a platform to honor and appreciate the incredible





THE ANNUAL SCIENCE FAIR AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES

The annual Science Fair at Malla Reddy Institute of Pharmaceutical Sciences, held on 28 Feb 2025, on the occasion of the birth anniversary of Chandrasekhara Venkata Raman, known simply as C. V. Raman. It was an exemplary display of scientific ingenuity, research excellence, and technological advancements. The event provided a platform for students to exhibit their innovative projects, fostering an environment of intellectual curiosity and academic growth. The fair featured a diverse range of projects spanning multiple scientific disciplines, including artificial intelligence, renewable energy, biomedical engineering, and environmental sustainability. Each exhibit reflected the dedication and hard work of students who presented their research with clarity and professionalism. Notably, the project on "Oral Dissolvable Fill For Migraine Relief" stood out due to its potential real-world applications and well-structured research methodology. A distinguished panel of judges, comprising esteemed faculty members and industry experts, evaluated the projects based on originality, scientific rigor, and practical implementation. Their insightful feedback



provided participants with valuable guidance for further research and development. The organization of the event was commendable, with seamless coordination between departments ensuring its smooth execution. The inclusion of keynote speeches by renowned scientists and interactive demonstrations further enriched the experience, inspiring both participants

and attendees. Overall, the Science Fair was a resounding success, reinforcing the importance of scientific exploration and interdisciplinary collaboration. It not only celebrated the innovative spirit of students but also encouraged them to push the boundaries of knowledge. The event stands as a testament to the institution's commitment to academic excellence and research-driven learning.

Conclusion:

The Science Fair at Malla Reddy Institute of Pharmaceutical Sciences was an inspiring and intellectually stimulating event. It successfully highlighted the talent and dedication of students while fostering a culture of scientific inquiry. With its impressive organization and high-caliber projects, it has set a high standard for future editions.



MRIPS STUDENTS MAKE A MARK AT RASHTRAPATI NILAYAM ON WORLD WATER DAY.

On March 22, 2025, in celebration of World Water Day, five students from Mallareddy Institute of Pharmaceutical Sciences (MRIPS) had the prestigious opportunity to participate in a state-level debate competition held at Rashtrapati Nilayam, Hyderabad. This historic venue, one of the official residences of the President of India, hosted a thoughtful and impactful event aligned with this year's international theme: "Water for Peace." The MRIPS team was proudly led and mentored by Mrs. B. Revathi, an experienced and supportive faculty member, and Ms. Indraja, the dedicated NSS Coordinator. Their guidance played a key role in shaping the students' preparation and boosting their confidence for this intellectually demanding platform. The debate competition focused on critical global and national issues concerning water – including conservation strategies, water-sharing disputes, the effect of climate change on water resources, water as a human right, and the role of youth in promoting water equity. Students from various institutions across Telangana participated, presenting diverse viewpoints and innovative solutions. MRIPS students stood out with their well-structured arguments, effective



communication skills, and deep understanding of the subject matter. They impressed the jury and audience alike by not just discussing the problems but also suggesting practical steps towards water sustainability. Their speeches reflected the vision of an informed, responsible, and proactive generation ready to lead change.

The atmosphere at Rashtrapati Nilayam was charged with enthusiasm, as young minds engaged in constructive discourse on one of the most pressing issues of our time. The event also provided students with a rare opportunity to interact with dignitaries, academic leaders, and peers from other reputed institutions. This participation is a matter of pride for MRIPS, highlighting the

institute's continuous efforts to encourage students beyond academics, offering them platforms to grow as socially conscious individuals. The college remains committed to supporting such initiatives that blend academic excellence with civic responsibility. The success of the MRIPS team at this prestigious venue not only brings recognition to the institution but also reinforces the importance of student involvement in national and global awareness campaigns. The institute congratulates the participants and mentors for their commendable effort and representation.



13TH LAMP LIGHTING CEREMONY – MALLA REDDY COLLEGE OF NURSING

Malla Reddy College of Nursing, a constituent unit of Malla Reddy Vishwavidyapeeth (Deemed to be University), Hyderabad, organized its 13th Lamp Lighting Ceremony—a momentous occasion marking the beginning of our students' journey into the noble profession of nursing.

The chief guest for the event was Prof. B. Vidyavati, Registrar of the Telangana State Nurses and Midwives Council. The distinguished dignitaries lit the ceremonial lamp and formally inaugurated the ceremony. As part of the proceedings, the students took the nursing oath, pledging to uphold their responsibilities with

dedication and professionalism.

Dr. N. Balasubramanian, Dean of Nursing, congratulated the students on choosing the nursing profession. He emphasized that these budding nurses are a great asset to patients in need, highlighting their vital role in healthcare.



TEACHER'S DAY CELEBRATION – MALLA REDDY COLLEGE OF NURSING

Malla Reddy College of Nursing, a constituent unit of Malla Reddy Vishwavidyapeeth (Deemed to be University), Hyderabad, proudly celebrated Teacher's Day—a momentous occasion dedicated to honoring the invaluable contributions of teachers in shaping future healthcare professionals. The celebration began with the lighting of the ceremonial lamp by the distinguished dignitaries, formally inaugurating the

event and paying tribute to the guiding light of education. As part of the proceedings, students expressed their heartfelt gratitude to their mentors through speeches, cultural performances, and creative presentations. They pledged to uphold the values and teachings imparted by their faculty with dedication and professionalism. Addressing the gathering, Dr. N. Balasubramanian, Dean of Nursing, extended warm wishes to

all the faculty members. He emphasized that teachers are the true nation-builders and a great asset to students, highlighting their vital role in nurturing skilled, compassionate, and responsible healthcare professionals. The celebration concluded with a vote of thanks and distribution of tokens of appreciation, making the day memorable for both faculty and students.



MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES (MRIPS) CELEBRATES TERCENTENARY BIRTH ANNIVERSARY OF LOKMATA DEVI AHILYABAI HOLKAR.

Malla Reddy Institute of Pharmaceutical Sciences (MRIPS) Celebrates Tercentenary Birth Anniversary of Lokmata Devi Ahilyabai Holkar, the warrior queen, as part of Akhila Bhartiya Rashtriya Shaikshik Mahasang. This momentous occasion was graced by Dr. M Ashok, Principal of MRCE and President of ABRSM.

The program was expertly coordinated by Mrs. Revati, Associate Professor and Program Coordinator, and Ms. Indira, NSS

Coordinator, Convener and Principal Dr. B Rajkamal of MRIPS. Celebrations and Events. The celebrations commenced with a traditional lamp-lighting ceremony, followed by an insightful talk by the distinguished speaker of the day. The speaker also distributed books on Ahilyabai Holkar, highlighting her remarkable life and achievements.

Dr. B Rajkamal, Principal of MRIPS, felicitated Dr. M Ashok for gracing the

event and making the celebrations a grand success. About Lokmata Devi Ahilyabai Holkar Lokmata Devi Ahilyabai Holkar was a pioneering figure in Indian history, known for her bravery, wisdom, and philanthropy. Born on May 31, 1725, she ruled the Holkar dynasty of Indore within the Maratha Confederacy from 1767 to 1795. Her legacy continues to inspire generations, and MRIPS is proud to have celebrated her birth anniversary with great fervor.



MEDITATION DAY PROGRAMME AT MRIPS: A STEP TOWARDS INNER PEACE AND MENTAL WELL-BEING.

MRIPS has always been committed to the holistic development of its students and staff, and the recently organized Meditation Day programme was a perfect example of this vision. The event, aimed at promoting mental well-being and inner peace, turned out to be an enriching experience for all participants. The programme began with an inspiring introduction to meditation by an experienced facilitator, who shared insights on the importance of mindfulness in our fast-paced lives. They explained how meditation is not merely a spiritual practice but a scientifically proven method to reduce

stress, improve focus, and enhance overall emotional health. The facilitator emphasized that in today's competitive world, where students often find themselves overwhelmed with academic pressure, meditation serves as a powerful tool to maintain balance and clarity. The session included practical demonstrations of various meditation techniques, starting with mindful breathing exercises. Participants were guided to focus on their breath, helping them to calm their minds and achieve a state of relaxation. This was followed by progressive muscle relaxation, where individuals

were encouraged to release tension from different parts of their bodies. The visualization exercise, which involved imagining serene landscapes and peaceful surroundings, was particularly impactful, as it transported participants to a state of tranquility. One of the most valuable aspects of the programme was its interactive nature. The facilitator encouraged participants to share their initial experiences and ask questions, creating a warm and supportive environment. Many students expressed how the session helped them disconnect from their worries and focus on the present moment. Some

even shared that it was their first experience with meditation, and they were amazed at how effective it was in calming their minds. The programme also highlighted the long-term benefits of regular meditation, including improved concentration, better emotional regulation, and enhanced resilience to challenges. The facilitator advised students to dedicate just 10–15 minutes daily to meditation, assuring them that even small efforts can lead to profound positive changes

over time. By the end of the session, there was a noticeable change in the energy of the room. Participants left feeling refreshed, motivated, and inspired to incorporate meditation into their daily lives. The initiative was not only a break from routine academic activities but also a reminder of the importance of mental health in achieving overall success and happiness. The Meditation Day programme at MRIPS was undoubtedly a well-planned and meaningful event. It

served as a gentle yet powerful reminder of the importance of mindfulness and self-care in today's demanding world. Events like these reflect MRIPS's dedication to fostering a nurturing environment where students and staff can thrive, both academically and personally. Such initiatives should be encouraged and conducted regularly to ensure that the journey toward holistic well-being becomes an integral part of everyone's life.

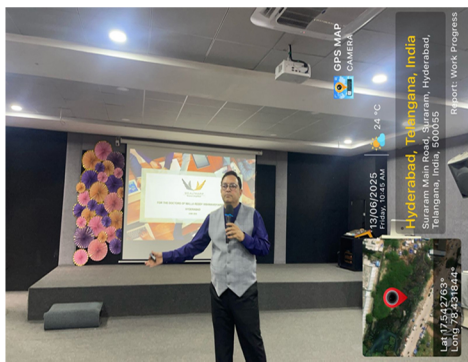


“FINANCIAL MANAGEMENT FOR DENTAL PROFESSIONAL”

A one-day program on Financial management for dental professional introduction to the principles, techniques, and technologies involved in creating Financial management for dental professional using digital tools. This workshop should provide participants with a comprehensive understanding of Financial management for dental professional techniques and hands-on experience with relevant software tools, empowering them to incorporate these skills into their dental practice effectively. COURSE OBJECTIVES:

General objective: By the end of this program, the participants should This workshop should provide participants with a comprehensive understanding of Financial management for dental professional and hands-on experience with relevant software tools, empowering them to incorporate these skills into their dental practice effectively. Specific objective: Enable participants to proficiently plan and execute Financial management for dental professional advanced technologies for optimal patient care. RESOURCE PERSONS:

VENUE: Auditorium -3RD Floor MRDCW DURATION: 9:30am to 11:00 pm on 13-06 -2025 NUMBER OF PARTICIPANTS: All the teaching Faculty, PG's & Interns of MRIDS, MRDCW MRIDS/Circular/2025/047 Date 16-06-2025 CIRCULAR Topic – “Financial management for dental professional” Conducted By: Department of Prosthodontics-MRIDS & MRDCW Audience: All the teaching Faculty, PG's & Interns of MRIDS, MRDCW Venue: – Auditorium -3RD Floor MRDCW DURATION: 9:30am to 11:00 pm on 13-06 -2025.



EDUCATIONAL-INDUSTRIAL VISITS UNDER THE DHR-ICMR FUNDED NATIONAL WORKSHOP ON UNIFIED GENOMICS FRONTIER

Description: As part of the workshop on “Unified Genomics Frontier bridging molecular biology and computational disease modelling across India” hosted by Malla Reddy Vishwavidyapeeth, participants undertook two key edu-industrial visits aimed at complementing their academic and laboratory training with real-world exposure to genomic research and biotechnology entrepreneurship. During the visit to AIC-CCMB, participants were introduced to various startup grants and incubation opportunities available to biotech entrepreneurs. They engaged with startup founders, explored ongoing projects, and gained critical insights into the innovation and incubation ecosystem. This visit provided practical exposure to how entrepreneurship and genomics intersect in the biotech industry. Participants also visited the CDFD, where they explored cutting-edge genomic research infrastructure and projects in molecular diagnostics. These industry interactions, sponsored by Malla Reddy Vishwavidyapeeth, strengthened the workshop’s goal of merging theoretical knowledge with real-world applications.



As part of the DHR-ICMR National Workshop curriculum, Malla Reddy Vishwavidyapeeth hosted participants from across India for a series of

enriching educational and cultural exposures, blending scientific training with real-world insights and institutional engagement.



The academic exposure included industry-oriented visits to the Atal Incubation Centre – CCMB (AIC-CCMB) and the Centre for DNA Fingerprinting and Diagnostics (CDFD). At AIC-CCMB, participants were introduced to a dynamic ecosystem of biotech startups, gaining first-hand knowledge about incubation opportunities, funding avenues, and innovation support mechanisms



available to early-stage entrepreneurs. They engaged in meaningful interactions with startup founders, explored ongoing biotech projects, and learned about the journey from bench to business. At CDFD, participants were exposed to state-of-the-art genomic diagnostic platforms, molecular research projects, and national-level programs in clinical and forensic genomics. The visit enhanced their understanding of how research

translates into real-world applications in public health and diagnostics, aligning perfectly with the workshop’s translational vision. In addition to academic engagements, Malla Reddy Vishwavidyapeeth also curated a cultural and heritage tour of Hyderabad, conducted under the guidance of Principal Investigator Dr. Ellojita Priyadarshni Rout. The city tour offered participants a chance to explore Hyderabad’s rich historical legacy, architectural marvels, and vibrant food culture—fostering informal networking and cross-cultural exchange among the cohort. This thoughtful inclusion created a well-rounded learning experience, blending scientific inquiry with cultural immersion. Together, these experiences significantly enriched the participants’ exposure, providing a comprehensive understanding of the genomics innovation ecosystem, while nurturing a sense of scientific curiosity, collaboration, and community. Date: July 2025 Venue: Atal Incubation Centre – Centre for Cellular and Molecular Biology (AIC-CCMB, Hyderabad) and Centre for DNA Fingerprinting and Diagnostics (CDFD, Hyderabad) Participants: 18 participants under the guidance of Principal Investigator Dr. Ellojita Priyadarshini Rout.



INDUSTRIAL VISIT TO JODAS EXPOIM PVT. LTD

We, the students of Malla Reddy Institute of Pharmaceutical sciences have visited JODAS EXPOIM on 25/06/2025 as part of an educational tour to gain insight into the operations of the pharmaceutical industry. The visit was organized to bridge the gap between theoretical knowledge and industrial practices. JODAS EXPOIM is a leading pharmaceutical manufacturer and exporter specializing in IV, IM,

Injectables. The company adheres to international regulatory standards and holds certifications such as WHO-GMP, ISO, USFDA. We have observed the manufacturing of Heparin, Omeprazole DPI's with emphasis on standard operating procedures (SOPs), demonstration of use of analytical instruments like HPLC, GC and dissolution testers. Witnessed the automatic packaging, labelling, and

serialization processes. Learned about temperature-controlled storage and inventory management. The industrial visit was a highly informative and enriching experience. It provided practical exposure to the pharmaceutical manufacturing process and clarified many concepts taught in the classroom. The interaction with industry professionals also motivated us to pursue careers in the pharmaceutical sector.



ADVANCEMENTS IN THE DEVELOPMENT AND CHARACTERISATION OF 3D CANCER SPHEROIDS FOR DRUG SCREENING.

Conference: 3rd International Conference on Recent Trends in Materials Science & Devices (ICRTMD-2025)

Venue: JVMGRR College, Charkhi Dadri, Haryana, India

Mode: Online

Date: 24-26 March 2025

**3rd International Conference on
Recent Trends in Materials Science & Devices
(ICRTMD 2025) 24 – 26 March 2025**
JVMGRR College, Charkhi Dadri, Haryana, India

Invited Speaker 

CERTIFICATE






Publication Partners

This certificate is presented to



Dr. Neema Kumari
Chief Scientific Officer
Department of Microbiology,
Malla Reddy Institute of Medical Sciences,
Malla Reddy Vishwavidyapeeth, Hyderabad, Telangana, India

for his/her notable contribution as an Invited Speaker in 3rd International Conference on Recent Trends in Materials Science & Devices (ICRTMD-2025) held at JVMGRR College, Charkhi Dadri, Haryana, India from 24-26 March 2025.

Title of Talk: Advancements in the Development and Characterisation of 3D Cancer Spheroids for Drug Screening

ICRTMD 2025 has been organized jointly by JVMGRR College, Charkhi Dadri and Research Plateau Publishers, India.



Dr. Jaivir Singh
Conference Chair



Dr. Sushila
Conference Co-Chair

NATIONAL PHARMACY EDUCATION DAY ON MARCH 6TH TO HONOUR THE REMARKABLE CONTRIBUTIONS OF PROFESSOR MAHADEV LAL SCHROFF.

Malla Reddy Institute of Pharmaceutical Sciences observed National Pharmacy Education Day on March 6th to honour the remarkable contributions of Professor Mahadev Lal Schroff to recognize and celebrate the critical role that pharmacists play in healthcare. It's a day to honor the contributions of pharmacy professionals, from dispensing medications to offering crucial healthcare advice and ensuring the safe use of drugs. The day highlights the importance of pharmacists in improving patient health outcomes, promoting wellness, and providing guidance on medication management. On this occasion Prof. T.Satish Kumar Dean of placements MRCET delivered expertize talk on Startup and Entrepreneur Ship (IDEATHON 2025). The speaker mainly focused on the startup ecosystem consists of the people, institutions, resources, and activities that contribute to the growth and success of startups. Key players in the ecosystem include:

Founders/Entrepreneurs, Investors, Mentors & Advisors, Accelerators & Incubators, and Customers. The speaker also focused on The Startup Journey: From Idea to Scale. Speaker added some key points regarding

getting funding and investment from angel investors, venture capital and crowdfunding. Expertize talk concludes Startups and entrepreneurship are the lifeblood of innovation, and the journey is filled with

both incredible challenges and rewarding experiences. While success is never guaranteed, the combination of a strong idea, determination, and the right execution can turn a startup into a thriving business.



LECTURE TAKEN ON ROTARY ENDODONTICS AND CROWN & BRIDGE MODULE.

This module combines two essential areas of clinical dentistry: rotary endodontics and crown and bridge prosthodontics. Rotary endodontics involves the use of advanced, motor-driven nickel-titanium instruments for performing root canal treatments. Compared to traditional hand instrumentation, rotary systems offer improved efficiency, reduced treatment time, and greater accuracy in shaping complex root canal systems. This part of the module equips students with the knowledge and skills needed to perform endodontic therapy using modern rotary techniques, while emphasizing safety, canal anatomy, and proper instrumentation protocols. Crown and bridge prosthodontics focuses on the diagnosis, preparation, and restoration

of teeth using fixed prostheses. It includes clinical steps such as tooth preparation, impression making, temporization, and final prosthesis placement. The module emphasizes the importance of function, esthetics, and occlusion in restoring damaged or missing teeth. Together, this integrated module enhances the student's ability to perform comprehensive restorative procedures, preparing them for competent and confident clinical practice. COURSE OBJECTIVES: Understand Core Concepts Explain the principles of rotary endodontics and fixed prosthodontics. Use Modern Instruments and Techniques Demonstrate the use of rotary NiTi files and endomotors for effective root canal shaping. Perform accurate tooth preparations for crowns and bridges

using appropriate armamentarium. Enhance Clinical Skills Improve efficiency, precision, and safety in root canal treatments using rotary systems. Develop skills in impression making, temporization, and final prosthesis placement. Diagnose and Plan Treatments Formulate treatment plans for endodontically treated and missing teeth requiring fixed restorations. METHODOLOGY TRAINING METHOD: Lecture taken on Rotary Endodontics and Crown & Bridge Module RESOURCE PERSON: Dr. Vinod Kumar, MDS (Conservative Dentistry and Endodontics) VENUE: Lecture hall 1, 2nd floor. Malla Reddy Institute of Dental Sciences. DURATION: 9:15am TO 4:00pm BATCH :35



MEMORANDUM OF UNDERTAKING.

The Malla Reddy Institute of Dental Sciences and Hospital Suraram, Jeedimetla Hyderabad, Telangana India. This Memorandum of Understanding (hereinafter referred to as "MOU") is entered into on this 17 day of April, 2025 by and between: ECO Academy (Masterclass in Orthodontics, India). Represented by Dr. Abhisek Ghosh (Authorized Signatory) and Dr. Adith Venugopal - (partner). Hereinafter referred to as "ECO Academy." Malla Reddy Institute of

Dental Sciences and Hospital, Hyderabad, Telangana Represented by Dr. K. V. Ramana Reddy, Principal & Dean, Malla Reddy Institute of Dental Sciences and Hospital, hereinafter referred to as "Malla Reddy Institute of Dental Sciences and Hospital". Under this MOU our college (Malla Reddy Institute of Dental Sciences) is associated with ECO ACADEMY. The Academy offers a Masterclass University Program specifically designed for postgraduate students in

orthodontics. This comprehensive program provides in-depth insights into current advancements, techniques, and contemporary literature in the field. The Masterclass sessions are held every Wednesday, and since June, we have been actively participating in this enriching educational initiative. This program is particularly beneficial for postgraduate students, as it enhances their understanding of various clinical case scenarios and exposes them to a wide range of orthodontic techniques and approaches.



ORAL HEALTH CHECKUP CAMP - 2025

An Oral Health Checkup Camp was organized at Malla Reddy Institute of Pharmaceutical Sciences on 9th April 2025, in collaboration with Malla Reddy Medical College for Women. The camp aimed to promote awareness on oral hygiene and preventive dental care among students and staff. The event commenced with a traditional lamp lighting ceremony, symbolizing the spread of health and knowledge. This was followed by a warm welcome address delivered by the Chief Guest, Dr. B. Chitranjan, Principal of MRMCW, who emphasized the importance of integrating health awareness into

academic life. Key contributors to the event included Dr. Vijay Kumar K.V., Professor and Head of the Department, and Dr. P.V. Durga Rao, Professor and Head of the Department, who both shared insightful thoughts on oral health and its link to general well-being. During the camp, participants underwent comprehensive dental checkups and received one-on-one consultations. The dentists offered valuable advice on maintaining oral hygiene, discussed common dental issues, and demonstrated proper brushing and flossing techniques. Educational pamphlets were provided

to reinforce the importance of regular dental care. The event received an enthusiastic response, with over 300 individuals availing themselves of the services offered. The success of the camp highlighted the growing awareness and importance of oral health in academic institutions. The organizing committee extended heartfelt thanks to the dental team for their support and dedication. Such initiatives not only improve immediate health outcomes but also instill long-term habits that contribute to overall well-being and academic performance.



ANTI-DRUG RALLY AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES

The Anti-Drug Rally held at our college was a powerful and inspiring event aimed at raising awareness among students about the dangers of drug abuse. Organized by the college's NSS unit in collaboration with local health authorities, the rally took place on [26 June 2025], and saw enthusiastic participation from both students and faculty members. The event began with

a brief inaugural session, where our principal delivered a thought-provoking speech emphasizing the role of youth in building a drug-free society. Guest speakers, including a local doctor and a former addict who had recovered, shared their insights and real-life experiences, which left a lasting impact on the audience. After the speeches, students marched around the campus

and nearby areas holding banners, placards, and chanting slogans like "Say No to Drugs" and "Healthy Youth, Healthy Nation." The rally attracted attention from local residents and helped spread a strong message against substance abuse. Various competitions such as poster making, slogan writing, and street were also organized as part of the campaign. The

effectively depicted the emotional and social consequences of drug addiction. Overall, the anti-drug rally was a great

success. It not only educated students about the harmful effects of drugs but also motivated them to become

ambassadors of a drug-free lifestyle. Events like these are essential in shaping a responsible and aware generation.



A BRIEF REPORT ON ORIENTATION/INAUGURATION PROGRAMME FOR 1ST YEAR STUDENTS.

The Orientation/ Inauguration of the Academic Year 2025-2026 for the newly admitted students organized by Malla Reddy Technical Campus (Deemed to be University) on 04th August 2025 at the Einstein Block, Hyderabad. Students were welcomed by a traditional dance of the college team. The function was officially inaugurated by lighting the lamp by the dignitaries and thus by sharing the mission and core values of the university. The Honourable Chairman Sri Ch. Malla Reddy Garu, Founder Chairman, MRGI, MLA, Former Minister, Govt. of Telangana invited as Chief Guest highlighted how the program helps students transition into the new environment, introduces them to the



institution's mission and resources, and fosters a sense of community. The Honourable Chancellor of the University, Dr. K.N. Sudha Ramana, MD, DM (Gastro) delivered the Inaugural Address. In her address she motivated all students and asked them to pursue their dreams. Dr. Balakrishna

P. Shetty MBBS, MD (USA), Vice Chancellor addressed the gathering to use the enormous facilities provided by the University in the field of research. It was then taken over by Dr. Kanaga Durga Returi, Dean, Malla Reddy Technical Campus (Deemed to be University) who gave an insight on the history and gradual growth of the Institution to a well established Malla Reddy Technical Campus Deemed to be University. Around 5300 participants attended the event in two sessions. The audio visual played which shows about infrastructure, activities and various achievements happened in the University. The programme end up with group photo followed by national anthem.



DAY 1 REPORT ON ORIENTATION PROGRAMME "STRESS MANAGEMENT THROUGH IKIGAI AND POSITIVE PSYCHOLOGY"

The session scheduled during Academic Year 2025-2026 for the newly admitted students organized by Malla Reddy Technical Campus (Deemed to be University) on 06th August 2025 at Seminar Hall at 02.00 P.M. The speaker of the session is Prof Dr. Zaved Ahmed Khan, Dean Academics, Malla Reddy Vishwavidyapeeth (Deemed to be University), Hyderabad. The session focused on "Stress Management through IKIGAI and Positive Psychology" would explore how these two concepts can be used to promote well-being and reduce stress. IKIGAI, a Japanese concept meaning "a reason

for being," helps individuals identify their passions, skills, and values to find a fulfilling purpose in life. Positive Psychology focuses on building positive emotions, strengths, and resilience to enhance overall happiness and well-being. By integrating these approaches, individuals can cultivate a sense of purpose, increase their positive emotions, and develop coping mechanisms to manage stress effectively. Key elements of such a session: Introduction to IKIGAI: The session would likely begin by explaining the concept of IKIGAI, its four key components (what you love, what you are good at, what the world



needs, and what you can be paid for), and how it can be applied to find a sense of purpose and meaning in life. **Exploring Positive Psychology:** The session would then introduce the

emphasizing the importance of focusing on positive emotions, character strengths, and building resilience.

Integrating IKIGAI and Positive Psychology: The core of the session would focus on how to integrate these two approaches to manage stress. This could involve identifying one's IKIGAI to find a sense of purpose, which can be a buffer against stress. Practicing positive emotions, mindfulness, and gratitude, as suggested by Positive Psychology, can further enhance resilience and coping mechanisms. Practical

Applications: The session would likely include practical exercises and techniques for identifying one's IKIGAI, cultivating positive emotions, and building resilience. This could involve journaling, mindfulness practices, or identifying personal strengths.

Real-life Examples: Sharing real-life examples of how individuals have successfully used IKIGAI and Positive Psychology to manage stress can be inspiring and motivating.

Potential benefits of such a session:

Reduced Stress
Increased Happiness and Well-being
Improved Resilience
Enhanced Relationships
Greater Productivity



A BRIEF REPORT ON ORIENTATION PROGRAMME “LINKEDIN LAUNCHPAD: BUILD YOUR DIGITAL IDENTITY FROM DAY ONE”

The session scheduled during Academic Year 2025-2026 for the newly admitted students organized by Malla Reddy Technical Campus (Deemed to be University) on 07th August 2025 at Seminar Hall at 02.00 P.M. The speaker of the session is Prof Dr. Zaved Ahmed Khan, Dean Academics, Malla Reddy Vishwavidyapeeth (Deemed to be University), Hyderabad. The LinkedIn Launchpad session, focused on "Building Your Digital Identity from Day One," likely covered strategies for creating a professional online presence on LinkedIn, emphasizing the importance of a strong first impression and ongoing engagement. The session would have guided participants on effectively using LinkedIn's features to showcase their skills, experience, and personality, ultimately helping them build a compelling digital identity for career advancement. Key takeaways from such a session would likely include:

• **Professional Profile Picture:** Highlighting the importance of a clear, professional headshot as the first visual representation of the individual. • **Compelling Headline:** Emphasizing the need to craft a concise and impactful headline that immediately

communicates one's professional identity and goals. • **About Section:**

Guiding participants on how to write a strong summary that effectively tells their professional story, showcasing their skills and aspirations. • **Experience**

Section: Encouraging detailed descriptions of work experience, highlighting accomplishments and quantifiable results. • **Skills and**

Endorsements: Focusing on the importance of adding relevant skills and actively seeking endorsements from colleagues and connections. •

Education and Certifications: Detailing academic background and professional certifications to build credibility.

• **Recommendations:** Encouraging the collection of recommendations from past colleagues and supervisors to add

• **Monitoring Online Presence:**

Advising on the importance of regularly monitoring their LinkedIn profile and online presence for accuracy and consistency. By focusing on these key areas, the session aims to equip participants with the knowledge and tools necessary to build a strong digital identity on LinkedIn, effectively positioning them for career success.



DOXYCYCLINE-INTEGRATED SILK FIBROIN HYDROGEL: PREPARATION, CHARACTERIZATIONS AND ANTIMICROBIAL ASSESSMENT FOR BIOMEDICAL APPLICATIONS.

Ealla et al. BMC Oral Health

<https://doi.org/10.1186/s12903-025-05568-4>

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Tooth extraction, a common dental accompanied by pain, trismus, and procedure, is often swelling due to alveolitis caused by oral bacteria. Doxycycline is prescribed to alleviate infection and improve socket healing, but its immediate absorption in the bloodstream makes the treatment less effective at oral sites. This emphasizes the importance of a drug delivery system to gradually slow its release at the oral wound site and increase its bioavailability to make the treatment effective over time. **Methods:** Silk fibroin (SF) - doxycycline hyclate (DH) hydrogel was developed and subsequently characterized for gelation kinetics, swelling, stress-strain analysis, morphology using scanning electron microscopy, interaction between SF and DH using Fourier transform infrared (FT-IR) spectroscopy, drug release profile, antibacterial efficacy, and biocompatibility studies. **Results:** The results indicated that the SF-DH hydrogel maintained its structural integrity, tolerated stress and strain, and featured interconnected pores, confirming DH integration within the SF matrix. The SF-DH hydrogel formed

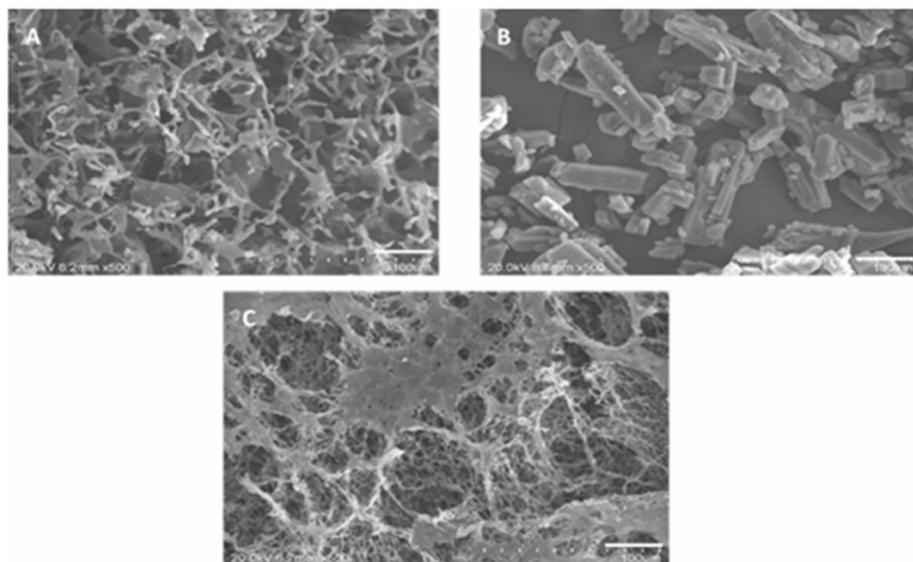
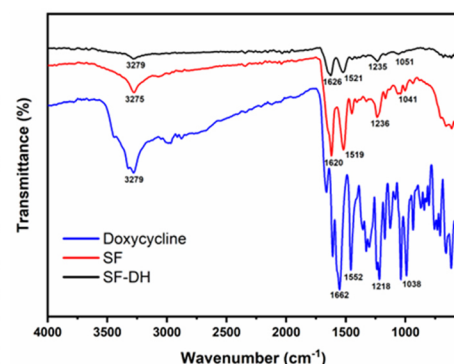


Fig. 3 Topological analysis of (A) SF, (B) DH, and (C) SF-DH hydrogel by SEM. Scale bar: 100 µm



within 8 h with the pore size range of 20–150 µm and 90.72 kPa Young's modulus. The drug release profile showed the increased release of DH up to 2 h, followed by sustained release till 8 h. The zone of inhibition was smaller with SF-DH hydrogels compared with DH for both *Staphylococcus aureus* and *Streptococcus mutans*. Furthermore, MC3T3-E1 cells showed 90% viability with SF-DH hydrogel.

Conclusions: The findings suggest that SF-DH hydrogel showed sufficient mechanical strength, pore size, antimicrobial activity, and biocompatibility. Further in vivo and clinical tests are required to prove its efficacy in effective socket healing.

EFFECTIVENESS OF A NEGATIVE ION GENERATOR “INSTASHIELD” FOR INDOOR AIR DISINFECTION: EVIDENCE FROM TERTIARY CARE HOSPITAL AND GLP LABORATORY SETTINGS

Journal: Bulletin of Atmospheric Science and Technology

DOI:

<https://doi.org/10.1007/s42865-025-00092-3>

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author: Dr. Neema Kumari and Dr. Kranti Kiran Reddy Ealla. **Abstract:** With the prevalence of hospital-acquired infection rates and increased indoor air contamination with microbes worldwide, effective air purification solutions are required. Traditional methods such as High-Efficiency Particulate Air filters and Ultraviolet systems are costly, require high maintenance, or pose health risks. Negative air ions (NAIs) provide an alternative non-invasive solution by removing microbes and allergens through oxidative damage and precipitation. This study evaluated the effectiveness of a new NAI generator, “Instashield,” as an indoor air purifier in a tertiary hospital and a Good

Table 5 Bacterial and fungal CFUs, in air and swab samplings in GLP laboratory settings before and after NAI exposure

Time	Air sampling (CFUs)		Swab sampling (CFUs)		Bacterial species detection			
	Bacteria	Fungi	Bacteria	Fungi	<i>E. coli</i>	<i>S. enterica</i>	<i>S. aureus</i>	<i>P. aeruginosa</i>
0	TNTC (> 500)	TNTC (> 500)	TNTC (> 500)	TNTC (> 500)	Present	Present	Present	Present
12	297	05	286	17	Absent	Absent	Absent	Absent
24	127	03	116	02	Absent	Absent	Absent	Absent
36	02	00	02	00	Absent	Absent	Absent	Absent
% Efficiency 12 h	40.6	99	42.8	96.6	100	100	100	100
% Efficiency 24 h	74.6	99.4	76.8	99.6	100	100	100	100
% Efficiency 36 h	99.6	100	99.6	100	100	100	100	100

TNTC: Too Numerous to Count. TNTC is considered as 500 for efficiency calculation

Laboratory Practice (GLP)-certified laboratory in Hyderabad, India. In hospital settings, after 1 h of NAI exposure, bacterial colony forming unit (CFU) reduction ranged from 32.04 to 38.34%, and fungal CFU reduction ranged from 35.82 to 77.78%, with the highest reductions observed in the intensive care unit. In the GLP laboratory, bacterial and fungal CFU reductions reached 99.6% and 100%, respectively, after 36 h, with no growth of *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* after 12 h. The device showed stable performance under varying environmental conditions, with CO₂ emissions from the device decreasing from 450 ppm to 410 ppm within 24 h, well within the safe indoor air quality threshold of 600 ppm. These findings validate Instashield as an effective, non-invasive air purifier to prevent nosocomial infection and maintain indoor air quality. Further research is required to assess its efficacy under different environmental conditions and against a broader range of pathogens, including viruses.

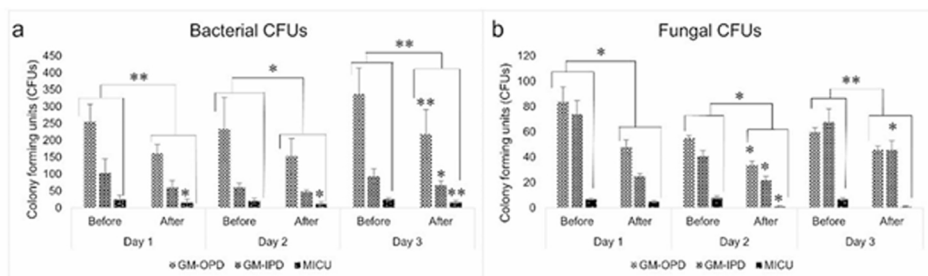


Fig. 2 Bacterial (a) and Fungal (b) CFUs on each day of exposure in GM-OPD, GM-IPD, and MICU. *: $p < 0.05$; **: $p < 0.01$

GRAPH ATTENTION NETWORKS FOR PREDICTING DRUG-GENE ASSOCIATION OF GLUCOCORTICOID IN ORAL SQUAMOUS CELL CARCINOMA: A COMPARISON WITH GRAPHSAGE .

Journal: PloS ONE

DOI : <https://doi.org/10.1371/journal.pone.0327619>

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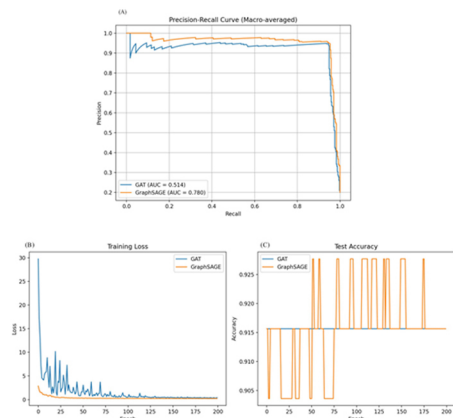


Fig 3. A) Precision-recall curve of the model and B) and C) Epoch loss curve of the model.

<https://doi.org/10.1371/journal.pone.0327619.g003>

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Corresponding author: Dr. Kranti Kiran Reddy Ealla and Dr. Daniel Ejim Uti.

Abstract: Background The present study evaluates the effectiveness of Graph Attention Networks (GAT) and GraphSAGE in predicting drug-gene interactions for glucocorticoids in oral squamous cell carcinoma, thereby aiding in developing better treatment strategies.

Materials and methods: We utilized a curated dataset containing known drug-gene interactions and corresponding molecular profiles. Both GAT and GraphSAGE were implemented to

model the biological networks of drug-gene relationships. Experiments were conducted to evaluate each model's performance using accuracy, precision, recall, and F1-score metrics.

Results: The network analysis details 174 nodes and 409 edges with a sparse structure, moderate connectivity, and low clustering, indicating a diverse node connection. The analysis confirms a fully connected network with efficient computation time. In comparing models, GraphSAGE outperforms GAT with higher accuracy (0.949 vs. 0.947), better macro-averaged F1 score (0.275 vs. 0.195), and higher AUC-ROC (0.780 vs. 0.514), suggesting stronger class-distinction capabilities.

Both models achieve high accuracy, but GraphSAGE's superior scores in F1 and AUC-ROC indicate a more effective balance in precision and recall.

The results demonstrated that both GAT and GraphSAGE effectively predicted drug-gene associations. However, GAT outperformed GraphSAGE, achieving higher accuracy and F1 scores in identifying relevant glucocorticoid interactions in the context of OSCC.

Conclusion: Our findings highlight the efficacy of advanced graph-based methodologies in elucidating drug interactions in OSCC. GAT, in particular, shows promise for accurately predicting drug-gene associations, which may facilitate personalized therapeutic approaches. Future research will focus on enhancing these models and exploring additional drug compounds to understand their applicability in OSCC treatment.

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INCIDENCE OF DRY SOCKET IN PATIENTS UNDERGOING TOOTH EXTRACTIONS: A RETROSPECTIVE STUDY

Journal: African Journal of Biomedical Research DOI

: <https://doi.org/10.53555/AJBR.v28i1S.6220>

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Kranti Kiran Reddy Ealla.

Abstract:

Background: A dry socket,

or alveolar osteitis, is a common complication after tooth extraction. This retrospective study examines the incidence of dry sockets, alongside demographic factors and tooth extraction methods, to identify risk factors in patients undergoing this procedure. **Materials and Methods:** This retrospective analysis study was conducted on 1722 patients who underwent tooth extractions for various reasons between December 2023 and November 2024. This study included all types of extractions, excluding deciduous tooth extractions. The data was extracted from the CiftHealth software utilized by the Malla Reddy Institute of Dental Sciences and included demographics, surgical procedures, and postoperative outcomes. The data analysis was performed using SPSS software, employing the Chi-Square Test and Fisher's Exact Test. **Results:** In this study of 1,722 patients who underwent routine dental extractions over 12 months, only 12 developed dry sockets, reflecting a very low incidence rate. The study found no significant differences in dry socket cases based on age or sex.

However, smokers, especially those with diabetes, had a much higher risk. About 7.4% (5 cases) of diabetic patients had dry sockets, and 97.9% of those affected were smokers. Dry socket risk varied with the dental impaction status. Transalveolar extraction showed an 85.7% rate of dry socket, surpassing other extraction methods. This highlights the need to consider extraction techniques and patient health to reduce dry socket risk.

Conclusion: The study shows low dry socket occurrence, unaffected by age or sex, with high risk in smokers, particularly those with diabetes. Trans-alveolar extraction may increase dry socket incidence, suggesting further refinement of extraction techniques could improve patient care.

TABLE 4: Diabetic and Nondiabetic Patients of Study Participants

			Dry Socket		Total
			Present	Absent	
Systemic Conditions	Blood Pressure	Count	0	99	99
		%	0.0%	100.0%	100.0%
	Diabetic	Count	5	63	68
		%	7.4%	92.6%	100.0%
	No Systemic Conditions	Count	7	1548	1555
		%	0.5%	99.5%	100.0%
Total		Count	12	1710	1722
		%	0.7%	99.3%	100.0%
Chi-Square Test = 45.597					
P Value = 0.001					

TABLE 5: Diabetic and Nondiabetic Patients of Study Participants

TABLE 3: Diabetic and Nondiabetic Patients of Study Participants				
		Dry Socket		Total
		Present	Absent	
Habits	Smoking	Count	3	142
		%	2.1%	100.0%
	Non-Smoking	Count	9	1580
		%	0.6%	100.0%
Total		Count	12	1722
		%	0.7%	100.0%
Chi-Square Test = 4.483				
p Value = 0.034				

ISOLATION OF A NOVEL MARINE ASPERGILLUS FUMIGATUS STRAIN AFK11 AND INHIBITION OF INFLAMMATORY MEDIATORS

Journal: of Clinical and Diagnostic Research, DOI:

10.7860/JCDR/2025/76785.20628

Authors: Kranti Kiran Reddy Ealla:

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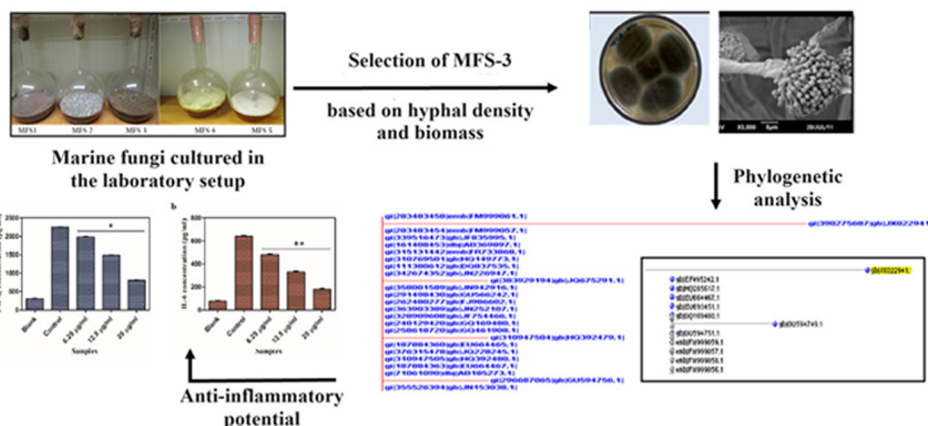
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Corresponding author: Dr. Kranti Kiran Reddy Ealla and Dr. Ira Bhatnagar. **Abstract**: Marine fungi are the leading producers of bioactive, since metabolites with medicinal properties against several diseases. However marine species survive in diverse climates, they are usually difficult to culture in laboratory setups, making them challenging to study. This study aimed to optimize culture.



conditions for marine fungi and evaluate the inhibitory action of the marine extract on primary pro-inflammatory cytokines. Culture conditions for marine fungi were optimized using biomass production, hyphal density, and radial extension, considering temperature and humidity. The study isolated a new *Aspergillus fumigatus* variant, AFK11 (GenBank accession no. JX022941), showing 96% similarity to reported strains.

Ethyl acetate extracts of AFK11 significantly inhibited primary pro-inflammatory cytokines, tumor necrosis factor- α , and interleukin-6, in a dose-dependent manner. This research highlights the successful laboratory culture and anti-inflammatory potential of the new strain of *Aspergillus*, AFK11, emphasizing the need for further research for its potential in various

ORAL SURGICAL SITE INFECTIONS AND WOUND HEALING ASSOCIATED WITH SILK FIBROIN SUTURES VERSUS ALTERNATIVE SUTURE MATERIALS: A SYSTEMATIC REVIEW

Journal Journal of Clinical and Diagnostic

Corresponding author: Dr. Neema Kumari **Research DOI** 10.7860/JCDR/2025/76785.20628

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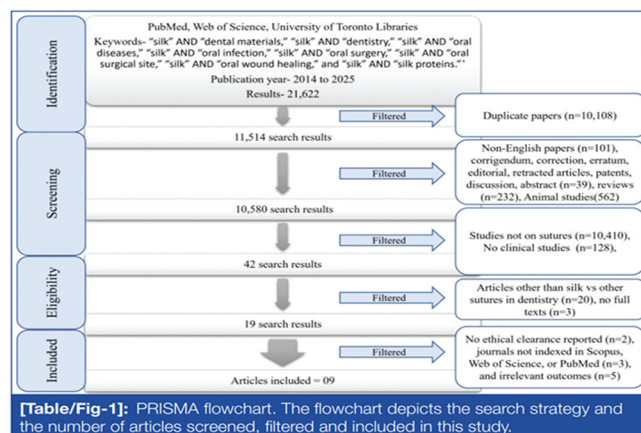
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wounds, promote haemostasis and prevent infection. Although non absorbable sutures are preferred for promoting wound healing and

preventing infection, Silk Fibroin (SF) sutures are still used due to their affordability and favourable properties. However, their multifilament structure makes them susceptible to higher bacterial adherence. **Aim**: To compare the effectiveness of SF sutures in reducing SSIs and promoting wound healing with other suture materials used in dental procedures. **Materials and Methods**: A systematic review was conducted following the Preferred Reporting Items for Systematic Reviews and Meta-analyses (PRISMA) 2020 checklist. PubMed, University of Toronto libraries and the Web of Science (WoS) were searched using specific keywords until January 4, 2025. Data were extracted and a risk of bias assessment was performed using the Risk of Bias 2 (RoB 2) and Risk of Bias In Non randomised Studies - of Interventions (ROBINS-I) tools. Nine studies were included. Results: The study demonstrated that non resorbable multifilament SF sutures

of infection, especially given their significantly higher adherence compared to other sutures. Infections were rarely reported. Results regarding bleeding, pain and swelling varied across studies and were mostly non-significant on day 7.

Conclusion: Antiseptic or antibiotic coatings on SF sutures can reduce bacterial adherence and lower the risk of infection, especially given their significantly higher adherence compared to other sutures.



A NEW STABILITY INDICATING METHOD FOR SIMULTANEOUS ESTIMATION OF DROSPIRENONE AND ESTETROL BY USING RP HPLC METHOD IN ITS BULK AND PHARMACEUTICAL DOSAGE FORMS

Authors: B. Revathi Rao, P. Roshini, Afreen Begum, Chandra Vishal, K Sai Charan, S. Balaji Associate Prof, MRIPS.

Abstract: A simple, accurate, correct, specific process was developed for the simultaneous inference of the Drospiren one & Estetrol in Tablet dosage form. Chromatogram was run during Agilent C18 150 x 4.6 mm, 5µ. Mobile phase containing buffer Ortho phosphoric acid: Acetonitrile taken in the ratio 55:45 was pumped through column at a flow of 1.0ml/min. Buffer used in this method was OPA. Temperature was maintained at 30°C. Optimized wavelength selected was 240.0 nm. Retention time of Drospiren one and Estetrol were found to be 2.257 min and 2.928. %RSD of the Drospiren one and Estetrol were and

found to be 0.6 and 0.6 respectively. %Recovery was obtained as 100.99% and 100.07% for Drospiren one and Estetrol respectively. LOD, LOQ values obtained from regression equations of Drospiren one and Estetrol were 0.01, 0.03 and 0.03, 0.08 respectively. Regression equation of Drospiren one is $y = 16939x + 200.32$ and $y = 18772x + 1427.2$ of Estetrol. System suitability parameters were studied and the outcomes were within acceptable limits when they were injected with the standard six times. Degradation studies were performed with the formulation and the degraded samples were injected and all the samples passed the limits of degradation. This particular technique was found to be consistent with the guidelines set forth by the International Council on Harmonization.

Conclusion: A new sensitive, selective, precise and accurate stability indicating RP-HPLC method has been developed and validated for the simultaneous estimation of Drospirenone and Estetrol in bulk and pharmaceutical dosage form. All the system suitable parameters were passed and were within the limits. The parameters were studied and validated the outcomes were within acceptable limits as per ICH guidelines. Degradation studies were carried out on Drospirenone and E4, all of which came back with a purity threshold that was higher than the purity angle. As a result, the developed and validated stability indicating method was determined to be suitable for regular estimation of Drospirenone and Estetrol in quality control laboratories and stability studies.

REVIEW - "WHAT'S NEXT AFTER PHARMACY" AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES.

The seminar titled "What's Next After Pharmacy" held at Malla Reddy Institute of Pharmaceutical Sciences on [24 June 2025], was a highly informative and motivating session aimed at guiding pharmacy students towards various career paths and opportunities after graduation. The seminar was attended

by B. Pharmacy and Pharm D students, along with faculty members, and was led by esteemed speakers from academia and the pharmaceuticals industry. The event began with a welcome address by our principal Dr. B Raj Kamal, followed by an insightful keynote speech by Dr. Mahesh D Burande.



WORKSHOP ON PRESENTATION SKILLS AT MALLA REDDY INSTITUTE OF PHARMACEUTICAL SCIENCES

On January 10th, 2025, the Telangana Academy for Skill and Knowledge (TASK) organized a workshop on presentation skills at Malla Reddy Institute of Pharmaceutical Sciences. The session, led by the esteemed Mr. Mark Louis Horne, spanned from 10 AM to 4 PM and was a remarkable learning experience for all attendees.

Mr. Horne, with his vast experience and engaging teaching style, captivated the audience from the very beginning. The workshop was designed to enhance the participants' communication, public speaking, and presentation skills - crucial attributes for both academic and professional success. The session began with an insightful introduction to the fundamentals of impactful presentations, including structure, tone, and body language. Mr. Horne

emphasized the importance of understanding the audience and tailoring content to their needs, which resonated strongly with the participants. Interactive activities and live demonstrations were integral to the workshop. Attendees were encouraged to actively participate in group exercises, where they practiced delivering short presentations and received constructive feedback. Mr. Horne's ability to break down complex concepts into practical, actionable tips made the learning process enjoyable and effective. One of the highlights of the session was Mr. Horne's demonstration of overcoming stage fear and handling unexpected situations during presentations. His relatable anecdotes and quick-witted humor made the session both

educational and entertaining. Participants lauded the workshop for its structured approach, engaging content, and practical takeaways. Many expressed that the session boosted their confidence in public speaking and provided them with tools to improve their overall communication skills. The event concluded with a Q&A session, during which Mr. Horne addressed individual queries and provided personalized advice. TASK's commitment to enhancing students' skills was evident through the seamless organization and impactful content of the workshop. Overall, the presentation skills workshop was a resounding success, leaving the attendees inspired and better equipped to excel in their future endeavors.



MEDICAL CODING

A three-day task session on Medical Coding was conducted by Mr. C. Nikhil Chandra at Malla Reddy Institute of Pharmaceutical Sciences. The session was informative and helpful for students who are interested in the field of medical coding. On the first day, Mr. Nikhil introduced the basics of medical coding, including important coding systems like ICD, CPT, and HCPCS. He explained the concepts in

a simple and easy-to-understand way. The second day was more interactive, with practical exercises and examples. Students got the chance to practice coding and understand how it works in real-life situations. On the final day, Mr. Chandra conducted a comprehensive review and mock coding assessments to test the understanding of participants. He also offered valuable career guidance,

explaining the various roles, certifications, and growth opportunities available in the medical coding domain. The session was well-received by all attendees, who appreciated the practical orientation, clarity of explanation, and industry insights shared by the speaker. Overall, the session significantly enhanced the participants' knowledge and preparedness for careers in medical coding.



LECTURE TAKEN ON DO'S AND DONT'S OF SINGLE AND FULL MOUTH IMPLANTS.

Dental implantology has revolutionized the replacement of missing teeth, offering highly functional and esthetic outcomes. Single tooth implants restore individual teeth without compromising adjacent structures, preserving bone and tissue health. Full-mouth implant rehabilitation addresses extensive edentulism, often utilizing concepts like All-on-4 or All-on-6. Success in both approaches hinges on thorough assessment, precise planning, and meticulous surgical execution. Modern digital tools, such as CBCT and guided surgery, enhance accuracy and predictability. Tissue management—both hard and soft—is critical for long-term stability and esthetic outcomes. Immediate loading is possible in many cases but requires strict criteria for primary stability and occlusal control. Maintenance and patient education play a key role in the longevity of implant restorations. Understanding the distinct protocols and risks of each approach is essential for clinical success.

COURSE OBJECTIVES: Understand the Principles of Implantology Gain foundational knowledge of dental implant biology, osseointegration, and biomechanics. Differentiate Between Single and Full-Mouth Implant Approaches. Learn the indications, techniques, and protocols unique to single-tooth and full-arch rehabilitation. Perform Comprehensive Patient Assessments. Develop skills in evaluating bone quality, soft tissue, systemic health, and occlusion using clinical and radiographic tools (e.g., CBCT). Plan Implant Cases Using Digital and Conventional Techniques Understand prosthetically driven

Assessments. Develop skills in evaluating bone quality, soft tissue, systemic health, and occlusion using clinical and radiographic tools (e.g., CBCT). Plan Implant Cases Using Digital and Conventional Techniques Understand prosthetically driven implant placement using digital workflows, surgical guides, and wax-ups.

METHODOLOGY
TRAINING METHOD: Lecture taken on DO's and dont's of single and full mouth implants
RESOURCE PERSON: Dr. Sura bhi Mahidhar, MDS (Prosthodontist and implantologist)
VENUE: Lecture hall 4,3rd floor. Mallareddy Institute of dental sciences.
DURATION: 10:00am TO 3:00pm
BATCH : 32. The exocad Training Series is a structured educational program designed to help dental professionals master the use of exocad, one of the leading dental CAD (computer-aided design) software solutions in digital dentistry. This training series covers the fundamentals to advanced applications, including crown and bridge design, implant planning, full dentures, smile design, and more. It is aimed at dental technicians, clinicians, and CAD/CAM specialists who wish to enhance their digital workflow, improve design accuracy, and boost productivity. The series typically includes hands-on sessions, live demonstrations, and real-case simulations to ensure practical skill development and confidence in using the software for daily clinical and laboratory work.

Course Objectives of exocad Training Series:

1. Understand the exocad Interface: Familiarize participants with the user interface, workflow structure, and navigation tools in exocad

software.

2. Master Core Modules: Train users in fundamental modules such as Crown & Bridge, Anatomic Copings, Inlays/Onlays, and Veneers design.
3. Explore Advanced Design Tools: Introduce advanced features



Virtual Articulator for complex cases.

4. Enhance Digital Denture Skills: Provide step-by-step guidance on complete and partial digital denture design workflows.
5. Improve Precision and Efficiency: Teach techniques to improve design accuracy, reduce manual errors, and optimize clinical-lab communication.

• **Interactive Lectures:** Conceptual presentations with visual aids to explain the theoretical including foundations and key functions of exocad software.

• **Live Demonstrations:** Real-time demonstrations of workflows such as crown design, implant planning, and digital dentures using actual software.

• **Hands-on Sessions:** Participants work on demo cases under supervision to gain practical experience in using different modules.

VENUE: Lecture hall 4,3rd floor. Mallareddy Institute of dental sciences. **DURATIION:** 10:00am TO 3:00pm **BATCH :** 25.



EMPOWERING SCHOOLS AND TRANSFORMING SMILES - BEST PRACTICES FOR PROMOTING ORAL HEALTH.

The National Oral Health Programme, spearheaded by the Directorate General of Health Services (Dte. GHS), MoHFW, Government of India, is excited to announce the launch of the Monthly Webinar Series 2025-26. This series is designed to foster deeper knowledge and enhance skills related to oral healthcare among dental professionals, public health experts, school health educators, and healthcare teams nationwide. The webinars will explore cutting-edge trends, innovative strategies, and sustainable solutions aimed at addressing India's critical oral health challenges, aligning with national health priorities and global best practices. As part of this initiative, a highly informative webinar titled "Empowering Schools and

Transforming Smiles – Best Practices for Promoting Oral Health" was held on 4th July 2025. The session was led by Dr. Arpit Gupta, Additional Professor of Public Health Dentistry at PGIMER, Chandigarh. by B. Pharmacy and Pharm D students, along with faculty members, and was led by esteemed speakers from academia and the pharmaceuticals industry. The event began with a welcome address by our principal Dr. B Raj Kamal, followed by an insightful keynote speech by Dr. Mahesh D Burande. During the session, Dr. Gupta emphasized the pivotal role that school-based oral health programs play in reducing the oral disease burden among children. He also provided valuable insights into various government policies and

initiatives aimed at promoting oral health within schools across India.

The webinar was attended by the entire faculty of Malla Reddy Institute of Dental Sciences, who actively participated in the discussions and benefited from the knowledge shared. This webinar serves as a crucial step in empowering educators and healthcare professionals with the tools they need to implement effective oral health programs in schools, contributing to a healthier future for the nation's children. National Oral Health Programme. Monthly Webinar Series 2025-26 Organized by: Directorate General of Health Services (Dte. GHS), Ministry of Health and Family Welfare (MoHFW), Government of India
In collaboration with: Project ECHO India

HARNESSING AI ETHICALLY FOR SYSTEMATIC REVIEWS

The workshop aimed to provide an overview of AI tools for writing systematic reviews and other types of articles, with an emphasis on their ethical use. Staying focused on the objectives, Dr. Sowmiya Rani delivered a compelling session, guiding participants through the various types of research articles and demonstrating how AI can be responsibly harnessed to streamline and enhance the literature review process. The session was divided into three parts: first, an overview of the types of research articles; second, an introduction to available AI tools; and third, a demonstration of how some of these tools can be used in writing. Her deep expertise and practical insights were invaluable to all attendees.



Date: 26 April 2025

Venue: Evan Pavlov Lecture Hall, Malla Reddy Institute of Medical Sciences, Malla Reddy Vishwavidyapeeth.

Speaker: Dr. Sowmiya Rani, Editor, Editage (Cactus Communications); Founder, Editor, & Reviewer at Sowmis_AWW

Organizing Secretary: Dr. Neema Kumari

Participants – Approx 140 participants (Faculties, UG students, and PG students from Malla Reddy Vishwavidyapeeth and outside colleges)

DEPARTMENT OF MAXILLOFACIAL PROSTHODONTICS & IMPLANTOLOGY WORKSHOP ON BPS DENTURES

A workshop on BPS Dentures introduction to the principles, techniques, and technologies involved in creating BPS Dentures. This workshop should provide participants with a comprehensive understanding of BPS Dentures techniques and hands-on experience with relevant software tools, empowering them to incorporate these skills into their dental practice effectively.

General objective: By the end of this program, the participants should

- This workshop should provide participants with a comprehensive understanding of BPS Dentures and hands-on experience with relevant software tools, empowering them to incorporate these skills into their dental practice effectively.

Specific objective: Enable participants to proficiently plan and execute BPS Dentures advanced technologies for optimal patient care.



3D PRINTING AND ARTIFICIAL INTELLIGENCE IN PHARMACEUTICAL SCIENCES.

This session is conducted in Malla Reddy Institute of Pharmaceutical Sciences at From morning 10:00 AM to 3:15 PM this session is conducted in the

MRIPS auditorium with clean explanation and good audio we have also conducted interaction sessions where the students including teachers

can interact with the chief guest well, to begin with, We started our session with lighting and prayers song welcoming the principals and the chief

chief guests we had a few speeches about 3D printing and air learning from the faculty of MRIPS about the importance of job opportunities improvement of human errors, Improving human health and basic learning of 3D printing which is our future view. This program is mainly designed to educate about 3D printing in the future opportunities for pharmaceutical Drug improvement. We have learned a lot about 3D printing and AI use in pharmaceutical sciences and preparation including knowing about the drug's therapeutic effects on

users and many more we have also seen how the 3D printer works it uses its advantages and disadvantages the fascinating thing about this 3D printer is it is easy to use and handle and the medicines prepared by this 3D printer have the highest rate of dissolution than the compressing tablets we all use in the regular life. Dr. PRAKASH KATAKAM, Founder & CEO of 3D Fying, and Dr. N.SRI RAM Founder and Managing Director of Genesis Research Lab, Hyderabad. Gave us a full session about 3D printing and AI use in the pharmaceutical sector to

create more opportunities for the pharmacist, The session was harmonizing and entertaining with our chief guest's interaction and explanation about Every detail and aspect of this sector. We got to see the live three printer which one of our chief guests has brought to showcase how and what the 3D printer works and can also help in the preparation of medicines. It was a good experience as the chief case himself showed how the 3D printer works in front of every student till everyone's doubts were cleared.



FIRST EDITION OF THE DHR-ICMR FUNDED NATIONAL WORKSHOP ON UNIFIED GENOMICS FRONTIER

The DHR-ICMR funded National Workshop titled "Unified Genomic Frontiers: Bridging Molecular Biology and Computational Disease Modeling Across India" was successfully conducted under the HRD Scheme at the Directorate of Research, Malla Reddy Medical College for Women, under Malla Reddy Vishwavidyapeeth, Hyderabad. This landmark initiative marked the first-of-its-kind interdisciplinary genomics workshop in Telangana, aimed at building national capacity in integrating wet-lab molecular biology with cutting-edge computational approaches, artificial intelligence, and translational research. The workshop was thoughtfully designed in two progressive modules. Module 1, held online, focused on theoretical knowledge, covering molecular biology, disease genetics, next-generation sequencing (NGS), AI applications in genomics, neural networks, and disease modeling. Module 2, conducted on-site, offered immersive lab-based and computational hands-on training. Participants were trained in advanced techniques including CRISPR, RT-PCR, DNA extraction, cell culture, cloning, variant analysis, and the development of machine learning-based healthcare models. This design enabled participants to transition seamlessly from foundational theory to hands-on implementation, reflecting a true "lab-to-insight" framework.



Out of a national pool of 58 applicants, 23 participants were selected through an online interview process conducted by a panel comprising two ICMR scientists, university representatives, and members of the organizing team. The cohort represented a broad spectrum of disciplines and institutions, ensuring rich interdisciplinary engagement and the formation of a nationwide genomics research network. Malla Reddy Medical College for Women, Malla Reddy Vishwavidyapeeth celebrated academic growth and the launch of the DHR-ICMR funded national workshop titled "Unified Genomics This prestigious initiative, awarded under a national research grant, marks the commencement of a 12-week intensive training program and lays the foundation for a broader five-year vision aimed at strengthening genomic and computational disease modeling research in the country. The inaugural ceremony was graced by esteemed dignitaries including Dr. K. N. Sudha

Ramana, Hon'ble Chancellor; Dr. Bala Krishna Shetty, Vice Chancellor; Dr. S. Sreelatha, Dean, Malla Reddy Medical College for Women; Dr. Kranti Kiran, Director of Research; Dr. P. Sarguna, Professor & Head, Department of Microbiology, MRMCW; Dr. Vikas Sahu, Chief Innovation Officer and Co-Organising Secretary; and Dr. Ellojita Rout, Principal Investigator and Organising Secretary. Faculty members, researchers, and students from across the country were also in attendance. The event was further elevated by the presence of Chief Guest Dr. Debasis Dash, Director, Institute of Life Sciences, Bhubaneswar, who delivered an insightful keynote address on machine learning-based infection detection. Distinguished guest speakers included Dr. Payal Das from Tarutium Global Consulting, who spoke on predictive genomics in public health, and Dr. B. Kiran Kumar, Principal Scientist at CCMB Hyderabad, who presented on biomimetic corneal scaffold innovations. These visionary talks set the tone for a dynamic and high-impact academic journey that lies ahead.



Over the course of the workshop, participants engaged in intensive lab work and computational sessions that culminated in capstone projects. These included real-time simulations, the development of AI models for disease prediction, and complete data analysis pipelines. Additionally, the participants contributed to the creation of a digital training repository, supporting future learners. The hands-on curriculum was further enriched by expert sessions from leading institutions such as Purdue University, USA (sequencing technologies, WGS, and single-cell genomics), Mahindra University, Hyderabad (genomic databases, neural networks, and disease modeling), and



transilluminator, gel electrophoresis unit with power pack, a high-end i9 14th Gen computing workstation, and a fullyequipped digital teaching studio for content recording and virtual delivery. These additions have not only empowered participants with the latest tools but have also strengthened the institute's long-term training infrastructure. The workshop concluded with a valedictory session on July 23, 2025, where participants presented their capstone outcomes

earning experiences. The closing ceremony was graced by institutional leaders and expert faculty, who applauded the participants' progress and encouraged future collaboration and innovation. Certificates were distributed, and research proposals developed during the program were showcased, marking a successful conclusion to this national initiative. The Unified Genomic Frontiers workshop has laid a strong foundation for future training and research in genomics and precision medicine. Plans are already underway to scale this initiative into an annual national program with expanded modules in clinical data integration, AI-driven therapeutics, and population genomics. With a vision rooted in "genomics to bedside," this workshop represents a pioneering step toward building India's next-generation biomedical research ecosystem.



Yenepoya University, Mangalore (proteomics, docking, molecular dynamics, and personalized medicine). To support this comprehensive curriculum, essential equipment was procured under the project, including a Real-Time PCR system, UV



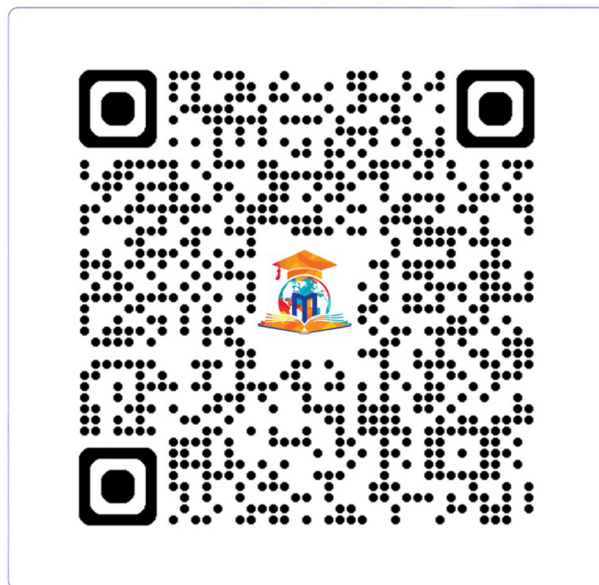
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