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Gangwal School of Medical Sciences and Technology, IIT Kanpur



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ABOUT THE MEDICAL SCHOOL



Key Highlights

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Hospital, Mumbai

Gangwal School of Medical Sciences and Technology (GSMST) at IIT Kanpur is dedicated to advancing medical education, research, and innovation. Established with a vision to bridge the gap between engineering and medicine, GSMST integrates cutting-edge technology with medical sciences to address contemporary healthcare challenges.

GSMST aims to provide a robust platform for interdisciplinary research and collaborative projects. The Medical School is committed to nurturing future leaders in medical technology and healthcare, fostering an environment that encourages innovative solutions and transformative breakthroughs. Through partnerships with leading global institutions and focus on translational research, GSMST aims to create a significant impact on healthcare delivery and improve the quality of life for communities both locally and globally.



Latest view of the GSMST construction site

Prof. Anil K. Lalwani, Inaugural Dean of Gangwal School of Medical Sciences & Technology



April 2026

Professor Anil K. Lalwani is a distinguished physician-scientist, educator, and innovator whose appointment as the Inaugural Dean marks a transformative milestone for GSMST, IIT Kanpur. He is a Professor of Otolaryngology-Head and Neck Surgery and Mechanical Engineering, Associate Dean for Student Research, Vice Chair for Research & Co-Director, Columbia Cochlear Implant Center, Department of Otolaryngology—Head & Neck Surgery, Columbia Vagelos College of Physicians and Surgeons. He also serves as Medical Director of Perioperative Services New York Presbyterian – Columbia University Irving Medical Center, New York, USA. He brings a legacy forged at the highest levels of academic medicine in the United States – Columbia University, New York University, and the University of California San Francisco.

Prof. Lalwani is one of the world's foremost experts in hearing science and surgical innovation. His NIH-funded research agenda spans molecular genetics, gene transfer therapy for hearing disorders, and cutting-edge microneedle technology for inner ear drug delivery—a convergence of engineering, technology, and medicine that defines the very ethos of Gangwal Medical School. His clinical mastery covers cochlear implantation, Meniere's disease, facial nerve disorders, acoustic neuromas, and complex skull base surgery.

Prof. Lalwani's scholarly output includes more than 275 peer-reviewed publications with an h-index of 75. He has authored landmark textbooks in Pediatric Otolaryngology & Neurotology, Skull Base Surgery, and Clinical Otolaryngology-HNS (translated into Spanish, Turkish & Portuguese). He is the Founding Field Chief Editor of *Frontiers in Audiology and Otology*.

His leadership assignments include service on the Advisory Council, National Institute on Deafness and Communication Disorders, NIH; Board of Directors and Chair of Council of Scientific Trustees, Hearing Health Foundation; President, Columbia University Asian Faculty Association; Member, FDA Advisory Panel on Ear, Nose & Throat Devices.

His appointment as the inaugural dean of GSMST reflects IIT Kanpur's strong commitment to building a world-class medical institution, with a focus on advanced clinical care integrated with cutting-edge technologies such as digital health, medical robotics, and point-of-care devices, aimed at delivering high-quality and affordable healthcare.



Shri Amit Kumar Ghosh, IAS, Additional Chief Secretary—Medical Health, Family Welfare & Medical Education, Government of Uttar Pradesh, Visits IIT Kanpur

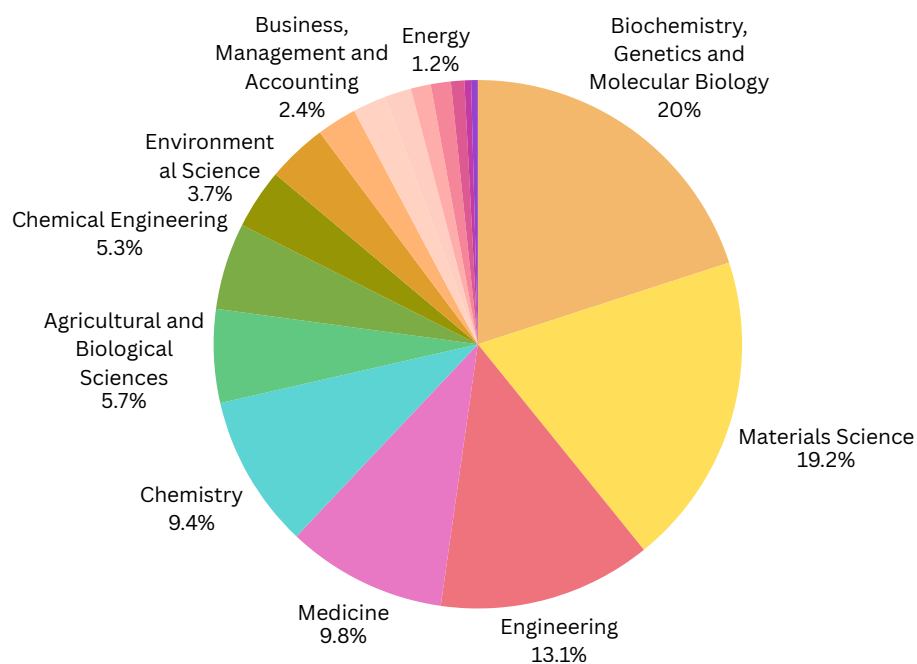
Shri Amit Kumar Ghosh, IAS, Additional Chief Secretary, Government of Uttar Pradesh, visited IIT Kanpur to interact with Prof. Manindra Agrawal, Director, IIT Kanpur, and review the progress of GSMST. The visit focused on assessing the school's infrastructure development and discussing ongoing research and translational initiatives in the areas of medical technologies, regenerative bioengineering, and digital health.



During the visit, Prof. Sandeep Verma, Head, Gangwal School of Medical Sciences and Technology, delivered a presentation outlining the evolution of GSMST, the rationale behind establishing the medical school, emerging opportunities in medical education and research, and its envisioned role in strengthening the healthcare ecosystem of Uttar Pradesh. The presentation also highlighted the School's focus on interdisciplinary research, technology translation, and fostering collaborations to address pressing healthcare challenges.



DGSMST publications across subject areas (2023–2026)



Source - Scopus

Research Facility

Integrated Initiative on Drug Discovery: Equipped Facility

Freezers: -20 and -80 °C



Bio Cell Dispenser:



Multimode Plate Reader



Janus Automated Liquid Handler: Robotic assembly for compound and drug transfer



50K Diversity Library

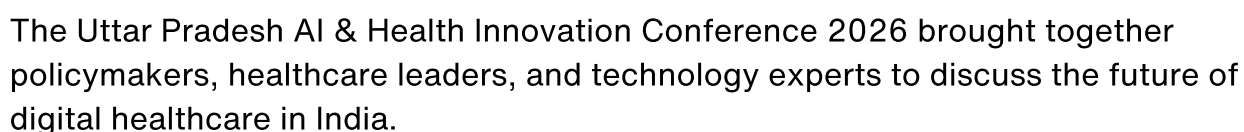
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[PDF](#) [Excel](#) [SDF](#)

MCE 50K Diversity Library consists of 50,000 lead-like compounds with multiple characteristics such as calculated good solubility ($-3.2 < \log P < 5$), oral bioavailability ($\text{RotB} \leq 10$), drug transportability ($\text{PSA} < 120$). These compounds were selected by dissimilarity search with an average Tanimoto Coefficient of 0.52. There are 36,857 unique scaffolds and each scaffold 1 to 7 compounds. What's more, compounds with the same scaffold have as many functional groups as possible, which make abundant chemical spaces. This exceptionally diverse library is highly recommended for random screening against new as well as popular targets based its novel, diverse scaffolds, abundant chemical spaces and the convenience for subsequent modification.

	30 μL /well Solution In-stock	50 μL /well Solution In-stock
	100 μL /well Solution In-stock	2 $\times$ 100 μL /well Solution In-stock

GSMST at Uttar Pradesh AI & Health Innovation Conference 2026

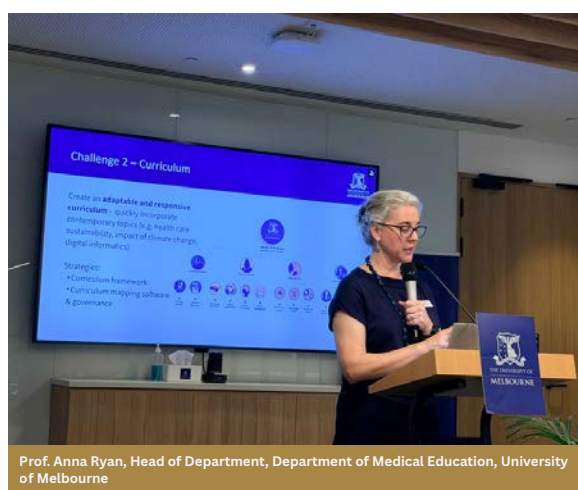


Prof. Sandeep Verma, Head, GSMST, IIT Kanpur, participated in the plenary session, "Accelerating Health Digital Public Infrastructure, Data-Driven Governance, HIS, and Regional Data Hubs for India." The discussions highlighted how important digital public infrastructure, compatible health information systems, and regional data hubs are for smooth data sharing, supporting data-driven governance, and improving healthcare services. The discussions emphasized the growing significance of AI and digital technologies in strengthening India's healthcare ecosystem.

Understanding the Evolving Landscape of Medical Education in India: Vision 2035



The University of Melbourne organized a symposium on 'Understanding the Evolving Landscape of Medical Education in India: Vision 2035' at Melbourne Global Center-Delhi. This event brought together leaders in medical education, healthcare, and policy to examine the evolving landscape of medical education in India. The symposium focused on how potential reform in medical education can support the development of a resilient, equitable, and future-ready healthcare system. The forum brought together senior representatives from universities, healthcare institutions, regulatory bodies, and policymaking organizations from India and Australia to explore global benchmarks alongside local models for a robust discussion on workforce readiness, quality, and regulatory alignment. The symposium builds on the University of Melbourne's long-standing engagement with India and forms part of its broader strategic approach to strengthening partnerships across education, research, and health system development.



Prof. Geoff McColl, Department of Medical Education; Dr. Abhijat C. Sheth, Chairman National Medical Commission India; and Prof. Sarath Ranganathan, Head of Melbourne Medical School

IIT Kanpur Showcases Vision for Gangwal School of Medical Sciences and Technology at the Consulate General of India, New York



The Consulate General of India in New York hosted a special event highlighting Gangwal School of Medical Sciences and Technology, IIT Kanpur. Welcoming the gathering, the Consul General of India in New York, Shri Binaya Srikanta Pradhan, underscored the growing India-U.S. partnership in healthcare and acknowledged the participation of leading medical institutions from the United States.

Prof. Manindra Agrawal, Director, IIT Kanpur, delivered the vision address, outlining the Institute's ambitious plans for the School and its commitment to advancing interdisciplinary medical education, research, and innovation. He also expressed appreciation for the continued support of IIT Kanpur's alumni in driving several transformative initiatives at the institute.

Prof. Anil K. Lalwani, Inaugural Dean of GSMST, presented the School's interdisciplinary vision and emphasized its aspiration to emerge as a global centre of excellence in medical sciences, innovation, and translational research.

A panel discussion titled "Medicine Reimagined: Engineering the Future of Health" featured Dr. Ashutosh (Ash) K. Tewari, Mount Sinai and Distinguished Visiting Professor, GSMST; Dr. Dev Joneja; and Prof. Manindra Agrawal, with Prof. Lalwani moderating the session. The panel explored how the convergence of medicine, engineering, artificial intelligence, and data science is poised to accelerate healthcare innovation, enable cutting-edge translational research, foster the development of advanced medical technologies and digital health solutions, and improve access to affordable, high-quality healthcare.

The event concluded with remarks by Mr. Deepak Raj, Chairman of the IIT Kanpur Foundation, who reaffirmed the pivotal role of the institute's global alumni network in strengthening international collaborations, supporting institution-building efforts, and advancing IIT Kanpur's vision for excellence in medical sciences and technology.



Events Organized

Maternal Health Initiative: WCF–GSMST Collaborative Events



As part of its ongoing collaboration with the Women's Collective Forum, GSMST, IIT Kanpur organized a series of events focused on strengthening maternal health through research, innovation, and expert engagement. The session 'Maternal Health and Innovation: Advances in Research and Technology,' organized by GSMST in collaboration with WCF, brought together leading experts from biomedical research, clinical practice, and reproductive health sciences. The video lectures focused on the intersection of innovation, translational research, and maternal healthcare delivery, with a shared recognition of the importance of connecting scientific innovation with real-world healthcare systems.



Over the course of multiple engagements, these partnerships have convened expert-led workshops, stakeholder consultations, and lecture series spanning critical areas including maternal and neonatal health, affordable medical devices, digital health systems, and rural community outreach.

Designed not merely as an academic exercise but as a means to build consensus and generate actionable insights, these efforts have aimed to move beyond discussion—capturing practical insights, aligning stakeholders, and informing both policy and on-ground healthcare practices.

Strengthening Women and Maternal Health in Rural Communities



January 2026

The workshop 'Strengthening Women and Maternal Health in Rural Communities' was organized by GSMST, IIT Kanpur in collaboration with the WCF and Ranjit Singh Rozi Shiksha Kendra, IIT Kanpur (RSK). The event raised awareness about women's physical and mental health, maternal care, and preventive healthcare among women artisans from nearby rural communities.



The event achieved its objectives of enhancing awareness, encouraging open dialogue on women's health issues, and fostering community engagement — a meaningful step toward empowering women in rural communities with knowledge and resources for better health and well-being.

Distinguished Visiting Professor



Prof. Richard Strugnell
Professor of Microbiology
University of Melbourne
Australia



Prof. Jennifer Grandis, MD
Department of Otolaryngology – Head and
Neck Surgery
University of California San Francisco
USA

MoU with UCSD



IIT Kanpur signed an MoU with the University of California, San Diego (UCSD) to foster academic and research collaboration in the areas of medicine and health, sustainability, and artificial intelligence.

The partnership aims to promote faculty and student mobility, collaborative academic programs, joint research projects, professional development opportunities, and knowledge exchange. The MoU also lays the foundation for initiatives such as joint degree programs, workshops, internships, and international collaborations that will strengthen the academic and research ecosystem of GSMST.

January 2026

MoU with AIIMS Gorakhpur



IIT Kanpur and AIIMS Gorakhpur signed a 5-year MoU for cooperation in biomedical research. Both institutions will work toward meaningful collaboration that advances innovative healthcare solutions for the region & beyond.

This MoU formalizes collaboration in R&D and consultancy studies in biomedical engineering & related academic programs, exchange of academic materials & joint publications, and undertaking joint research and submission of proposals. This initiative aims to combine IIT Kanpur's strength in technology-driven healthcare innovations through Gangwal Medical School with AIIMS Gorakhpur's clinical expertise and patient-centric care.

March 2026

MoU with TATA Memorial Hospital



IIT Kanpur has signed an MoU with Tata Memorial Hospital, a unit of Tata Memorial Centre, Mumbai, one of the world's leading cancer care and research institutions, to guide the establishment of an oncology hospital at GSMST.

This collaboration will leverage TMH's expertise in cancer care, research, training, and hospital planning to help shape a future-ready oncology ecosystem at GSMST, advancing accessible, high-quality cancer care, medical education, and MedTech innovation in Uttar Pradesh.

June 2026

Donation

In March 2026, GSMST, IIT Kanpur, received a CSR grant of ₹1.05 crore from Aptive Components India Pvt. Ltd. to establish two dedicated 8-bed Economically Weaker Section (EWS) wards. This contribution will strengthen the school's healthcare infrastructure and enhance access to quality medical care for economically disadvantaged patients, reinforcing GSMST's commitment to inclusive and affordable healthcare.

Infrastructure

GSMST Construction Site, June 2026



Contact Us

ADMINISTRATIVE OFFICE
GSMST BUILDING
(NEAR AIR STRIP)
INDIAN INSTITUTE OF TECHNOLOGY KANPUR
KANPUR, UP -208016



smrt@iitk.ac.in



(+91) 0512 259 2452



@IITKMedSchool

YADUPATI SINGHANIA SUPER SPECIALITY HOSPITAL
GANGWAL SCHOOL OF MEDICAL SCIENCES & TECHNOLOGY

