



VIT
BHOPAL
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JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING



HEALTH - HACK

Improving Health through Accessible and Empowering Innovation

**18th - 19th
February
2025**

- Open to people all across the world who are interested in inventing health-related solutions

- Affordable health care device design, Health IT solutions, Drug delivery system, Assistive Technology, Wearable Technology, Healthcare IoT Devices, Medical Imaging and Diagnostics

Hackathon Timeline

- Registration Deadline: **31st December, 2024**
- 1st Phase Screening & Result Declaration: **7th January, 2025**
- Final Stage Registration: **10th January, 2025**
- Mentor Assignment: **15th January, 2025**
- Final Document Submission: **3rd February, 2025**
- Hackathon Date: **18th & 19th February, 2025**

ABOUT VITBHOPAL UNIVERSITY

VIT Bhopal University, a legacy of VIT Vellore, was established in 2017 with a global perspective, dedicated to shaping the leaders of future generations. The university is led by Dr. G. Viswanathan, Founder and Chancellor; Mr. Sankar Viswanathan, Vice President; Ms. Kadhambari S. Viswanathan, Assistant Vice President and Mrs. Ramani Balasundaram, Trustee. It is a lush green campus covering over 350 acres situated at the heart of India, between the two cleanest cities, Indore and Bhopal. Within a short span, VIT Bhopal University has become one of the preferred choices for students due to its future-ready programs. VIT's global outlook empowers its aspirants to attain excellence through learning. The university employs a comprehensive and innovative teaching and learning practice known as Collaborative and Active Learning through Technology (CALTech). This approach redefines the methods of learning, education, and knowledge-building in the country. VIT Bhopal is the first private university to boast a 100 percent doctoral faculty, with members hailing from all over India. The university has established collaborations with reputed national and international organizations and strategic partnerships with universities worldwide to prepare a globally competent generation of professionals. VIT has signed over 500 Memorandums of Understanding (MoUs) with partner foreign universities around the world. Currently, over 16,000 students are enrolled in twenty-six engineering and non-engineering undergraduate, postgraduate, and PhD programs from 32 states and union territories of India.



ABOUT HACKATHON

"Improving Health Through Accessible and Empowering Innovation" is a compelling and forward-thinking concept that emphasizes the importance of making health solutions available to everyone and empowering individuals to take control of their health. The Health Hackathon is a visionary platform dedicated to revolutionizing healthcare through accessible and empowering innovation. This collaborative event invites students from diverse engineering and scientific disciplines to contribute brilliant solutions that can significantly enhance the healthcare system. By merging technology with medical practices, it aims to achieve unprecedented advancements in improving health outcomes. Participants will have the opportunity to develop critical thinking skills, foster innovative mindsets, and gain fresh perspectives on addressing healthcare challenges. This hackathon bridges the gap between ideas and their implementation, empowering young and talented individuals to bring their creative solutions to life and make a tangible impact on the health sector and society as a whole.

Organized by **VIT Bhopal University & Johns Hopkins University, USA**

ABOUT JOHNS HOPKINS UNIVERSITY

Johns Hopkins University is a private institution in Baltimore, Md, United States. Founded in 1876, it was America's first research university and today has influence around the globe. Johns Hopkins enrolls more than 30,000 full- and part-time students across nine academic divisions. It is ranked #6 in the 2025 *US News & World Report's* Best National Universities, and #13 in Best Global Universities.



ABOUT THE JOHNS HOPKINS WHITING SCHOOL OF ENGINEERING

At the Johns Hopkins Whiting School of Engineering, we advance data- and science-driven engineering discovery, innovation, and systems applications to help everyone live longer and healthier lives and empower communities and society to thrive even in extreme environments. Hopkins Engineering has more than 10,000 full-time and part-time students, has 40,000 living alumni across the globe, is ranked #13 Best Undergraduate Engineering and #14 Best Graduate Engineering School by US News and World Report, and boasts the #1 Ranked Biomedical Engineering program in the country. With ten academic departments and more than 26 research centers and institutes – including the Data Science and AI Institute – and through strong community, university, and industry partnerships, Hopkins Engineering is a driving force in the future of technology, health care, and engineering education.

ORGANIZING COMMITTEE

CHIEF PATRON Hon'ble **Dr. G. Viswanathan**, Founder & Chancellor, VIT Bhopal University

PATRONS **Mr. Sankar Viswanathan**, Vice President, VIT Bhopal University
Ms. Kadhambari S Viswanathan, Assistant Vice President, VIT Bhopal University
Mrs. Ramani Balasundaram, Trustee, VIT Bhopal University

CO-PATRONS **Dr. Senthil Kumar Arumugam**, Vice Chancellor, VIT Bhopal University
Mr. K.K. Nair, Acting Registrar, VIT Bhopal University
Dr. Sridevi Sarma, Vice Dean for Graduate Education, Whiting School of Engineering | Professor, Biomedical Engineering | Associate Director, Institute for Computational Medicine | Johns Hopkins University, USA

CONVENORS **Dr. Siddhartha Maiti**, Associate Professor & Programme Chair | School of Biosciences Engineering & Technology, VIT Bhopal University
Dr. Youseph Yazdi, Assistant Professor, Biomedical Engineering | Executive Director, Center for Bioengineering Innovation and Design (CBID) | Program Director, Wallace H. Coulter Translational Research Partnership Program | Whiting School of Engineering and Johns Hopkins School of Medicine | Johns Hopkins University, USA

Dr. Hedy Alavi, Associate Dean for Global Partnerships - Whiting School of Engineering | Chair - Environmental Engineering, Science, Management, and Sustainability Master's Degree Programs, Engineering for Professionals | Teaching Professor - Environmental Engineering, Department of Environmental Health and Engineering - Whiting School of Engineering and Bloomberg School of Public Health | Johns Hopkins University, USA

CO-CONVENORS **Dr. Seenivasan R**, Director-International Relations Office | Professor - Center for Nanobiotechnology | VIT -Vellore Institute of Technology, Vellore
Dr. Swagat Kumar Samantaray, Senior Assistant Professor & Programme Chair | School of Computing Science Engineering and Artificial Intelligence (SCAI), VIT Bhopal University

Registration Link:

tinyurl.com/HealthHackVITB-JHU

Registration Fees Per Team
(up to 6 Members): ₹1500 (\$18)

Prize Money:

1st Prize: ₹1,00,000 (\$1200)

2nd Prize: ₹50,000 (\$600)

3rd Prize: ₹25,000 (\$300)

Contact: healthhack@vitbhopal.ac.in



Scan the QR code to Register

Thematic Areas*

- Drug discovery and development
- Personalized healthcare
- IoT remote patient monitoring
- IT solution for accessible healthcare information
- Healthcare supply chain management
- Chronic disease management
- Mental health monitoring
- AI-powered diagnostics device and tools
- Block chain for healthcare application
- Wearable health devices
- Affordable assistive devices
- Medical image analysis
- Predictive analytics
- Healthcare chatbots and virtual assistants

* Not only confined to above theme area, but related to healthcare



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Bhopal-Indore Highway, Kothrikalan, Sehore, Madhya Pradesh – 466 114
Phone: +91-7560 350 900 / 901 / 902 | www.vitbhopal.ac.in