

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

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NAAC ACCREDITED 'A++' GRADE COLLEGE

2025-2026



Name of the Event: One Day Workshop on " MEMS (Micro-Electro-Mechanical Systems) based AI hardware"

Organised by: Department of Physics & Electronics in association with Institution's Innovation Council (IIC), Hansraj College, University of Delhi, Delhi

Date of the Event: 23rd August 2025

Duration/Event Timing: 10 A.M. Onwards

Venue of the Event: Online, HRC

Name of Convener (s): Dr. Mukesh Kumar Sahu & Dr. Yagyadatta Goswami

Name of Coordinator(s): Dr. Yogesh Kumar and Dr. Sanjeev Kumar

Name of IIC Convener: Dr. Ambika

Event Description (About 250 Words)

One Day Workshop Talk by distinguishable speaker **Dr. Vaibhav Rana** [Scientist, Institute of Microelectronics (IME), A*Star, Singapore] shared their industrial knowledge, design, fabrication, insights, real-world applications, and emerging trends related to

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“MEMS based AI hardware.” These talks bridge the gap between academic learning and industry practices, helping students understand how theoretical concepts are applied in practical scenarios in MEMS design as well fabrication steps. Micro-Electro-Mechanical Systems are revolutionizing AI hardware by enabling ultra-compact, low-power, and highly responsive sensing and computation platforms. MEMS-based devices, such as accelerometers, gyroscopes, pressure sensors, and micromirrors, provide high-fidelity data essential for AI-driven decision-making in real time. Integration of MEMS with AI accelerators supports edge intelligence, reducing latency and power consumption while enhancing portability. This lecture explores MEMS fabrication, signal processing, and co-design with neuromorphic and edge-AI architectures. Applications span autonomous systems, wearable health monitoring, smart IoT, and human-machine interfaces. Attendees will gain insights into challenges, design trade-offs, and emerging trends shaping MEMS-enabled AI hardware for next-generation intelligent systems.

Key Highlights:

- ✓ Understanding the basics of MEMS
- ✓ Understanding the design process of MEMS
- ✓ Understanding the design and fabrication process of BRENAC
- ✓ Instrumentation and Fabrication Techniques of MEMS devices
- ✓ Industry Case Studies and Emerging Trends MEMS based AI hardware
- ✓ Q&A Session with the Expert

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The event served as a meaningful exchange of ideas and memories, bridging generations of physicist. More than 80 registered participants were there and 50 attended. Overall, online event was a grand success.

Workshop Pictures:

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Attach Attendance Sheet

Timestamp	Name of Participant	Category	Department	College/Institute/University	Mobile
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8/23/2025 11:19:42	SRIJAL KUMAR	Student	Electronics	Hansraj College, Delhi University	9234888384
8/23/2025 11:20:09	SHANKAR LAL	Student	Physics	Hansraj College	8058854691
8/23/2025 11:20:22	DR. NUTAN KALA JOSHI	Faculty	Electronics	Sri Venkateswara College, University of Delhi	9868083876
8/23/2025 11:20:26	ANKITA JITENDRABHAI MAHALIYA	Faculty	Information technology	GTU	9712481596
8/23/2025 11:20:27	BHAVNA VIDHANI	Faculty	Physics	Hansraj College, University of Delhi	9213759056
8/23/2025 11:20:33	SHASHANK SENANI	Student	Electronics	Hansraj College	8287737235
8/23/2025 11:20:42	DR. RAVI KUMAR	Faculty	Electronics	Hansraj College	9729010710
8/23/2025 11:20:51	SAUMYA RANJAN PRADHAN	Research Scholar	Physics	National Institute of Technology Warangal	8018681754
8/23/2025 12:13:22	ALOK KUMAR	Student	Electronics	Hansraj College, Delhi University	923489872
8/23/2025 18:13:49	AYUSH SONI	Student	Electronics	Hansraj College, University of Delhi,	6393663066
8/23/2025 19:35:09	ASHISH TYAGI	Faculty	Physics	Swami Shraddhanand College, University of Delhi	9213772834
8/23/2025 6:58:39	SANJEEV KUMAR	Faculty	Physics	Hansraj College, University of Delhi	9992295335
8/23/2025 11:19:42	UTKARSH SINGH	Student	Electronics	Hansraj College	9650699918

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8/23/2025 11:20:09	DR. JYOTI BANSAL	Faculty	Electronics	Keshav Mahavidyalaya, University of Delhi	9971777595
8/23/2025 11:20:22	DEVESH YADAV	Student	Physical Science	Hansraj College, Delhi University, New Delhi	9599284033
8/23/2025 11:20:26	DR. PRABHAT SHARMA	Faculty	PHYSICS	Govt. Model G.H.S. S. KHILCHIPUR	8103471373
8/23/2025 11:20:27	CHINTHALA SHIRISHA	Faculty	Physics	Bhavan's New Science College	9676181913
8/23/2025 11:20:33	YOGESH KUMAR	Faculty	Physics	Hansraj College, University of Delhi	9810480618
8/23/2025 11:20:42	AYUSH KUMAR	Student	Electronics science	Zakir Husain Delhi college du darya ganj	8800903560
8/23/2025 11:20:51	BANDARI ALEKHYA	Faculty	Physics	Bhavans new science college narayanaguda	8019159779
8/23/2025 11:21:22	GUNTHAPALLI ARUNA	Faculty	Computer science	BHAVAN'S NEW SCIENCE COLLEGE	9603348185
8/23/2025 11:21:49	AYUSH KUMAR	Student	Electronics science	Zakir Husain Delhi college du darya ganj	8800903560
8/23/2025 11:22:09	POONAM JAIN	Faculty	Physics	Sri Aurobindo College, University of Delhi	9971072399
8/23/2025 11:22:10	AARYAN PANDEY	Student	Electronics	Hansraj college	6205927478
8/23/2025 11:22:18	SHASHANK SENANI	Student	Electronics	Hansraj College, University of Delhi	6393663066
8/23/2025 11:22:19	MAHESH SINGH	Faculty	Instrumentation	Shaheed Rajguru college of Applied Sc for women	9811239028
8/23/2025 11:22:21	ANKIT KRISH	Student	Instrumentation	Shaheed Rajguru College of Applied Sciences for Women	9540553306
8/23/2025	AYUSH SONI	Student	Electronic	Hansraj College	9525996362

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11:22:32					
8/23/2025 11:22:37	DR. DAYA BHARDWAJ	Student	Physics	Hansraj college Delhi.	8011258353
8/23/2025 11:22:37	DEVIKA	Student	Physics	Maitreyi college Delhi university	7985234734
8/23/2025 11:22:38	SHIVAM SINGH	Research Scholar	Physics	Delhi Technological University	6377102772
8/23/2025 11:22:39	SUMIT MANDAL	Student	Math	Hansraj College, University of Delhi	8619146099
8/23/2025 11:22:43	LAXMI RAJPUT	Faculty	Physics	Graphic Era Hill University, Bhimtal UK	9410167570
8/23/2025 11:22:48	SHUBHAM SHARMA	Student	Physics	Hansraj college,malka ganj, DU	7978210373
8/23/2025 11:22:49	MAHIPAL	Student	Physics	Hansraj College University of Delhi	9256599609
8/23/2025 11:22:54	DEEPENDRA SINGH RAWAT	Faculty	Other	SRCASW, DU	9990286387
8/23/2025 11:23:05	CHIRANJEEB MISHRA	Other	Department of Physics and Astrophysics	University of Delhi	9917438660
8/23/2025 11:24:43	PRIYANSHU YADAV	Student	Physics	Hansraj College	7014243379
8/23/2025 11:24:03	RESHMA SINHA	Student	Electronics	Hansraj college	6205927478
8/23/2025 11:24:46	MOHD MUAZ ANSARI	Student	Electronics	Hansraj College, University of Delhi,	6393663066
8/23/2025 11:24:54	KARAN SINGH RATHORE	Faculty	Instrumentation	Shaheed Rajguru college of Applied Sc for women	9811239028