

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

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

2024-2025



Name of the Event: Industry Expert Talk on "X-ray Diffraction (XRD): A Window into the atomic World"

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

Date of the Event: 1st March 2025

Duration/Event Timing: 10 A.M.

Venue of the Event: Online, HRC

Name of Coordinator(s): Dr. Yogesh Kumar and Ms. Chanchal Yadav

Name of Convener: Dr. Yagyadatta Goswami and Dr. Mukesh Kumar Sahu

Event Description (About 250 Words)

An **Industry Expert Talk** by distinguishable speaker **Dr. Rakesh Kumar Mishra (Application Scientist, Rigaku, New Delhi)** shared their industrial knowledge, insights, real-world applications, and emerging trends related to “X-ray Diffraction: A Window into the atomic World” These talks bridge the gap between academic learning and industry practices, helping students understand how theoretical concepts are applied in practical scenarios. A strong analytical method that offers a singular window into the atomic and molecular makeup of materials is X-ray diffraction (XRD). When X-rays are directed onto a crystalline material, XRD measures the diffraction patterns that are created as the rays interact with the atomic planes. This allows for the identification of the phase, composition, and crystal structure of the material. In addition to being widely employed in materials science, engineering, and nanotechnology, XRD is essential to metallurgy, semiconductor research, and chemical analysis. For both basic research and industrial applications, this method is essential because it allows scientists and engineers to study material properties with extreme precision.

Key Highlights:

- ✓ Understanding the basics of crystallography
- ✓ Understanding the Principles of XRD
- ✓ Instrumentation and Techniques
- ✓ Applications in Material Science, Semiconductors, and Nanotechnology

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- ✓ Industry Case Studies and Emerging Trends
- ✓ Q&A Session with the Expert

The event served as a meaningful exchange of ideas and memories, bridging generations of physicist. More than 200 registered participants were there and 101 attended (due to the maximum limit is 101 in google meet). Overall, online event was a grand success.

Five Geo-tagged Pictures:

Industry Expert Talk on
X-Ray Diffraction (XRD): A Window into the Atomic World

Date: 01st March, 2025
Time: 10:00 AM Onwards

Organized by:
DEPARTMENT OF PHYSICS & ELECTRONICS
in association with
INSTITUTION'S INNOVATION COUNCIL
HANSRAJ COLLEGE, UNIVERSITY OF DELHI

Dr. Rakesh Kumar Mishra
Application Scientist, Rigaku,
New Delhi
AGM, Application & Sales, IR TECH

Registration is FREE!!
<https://forms.gle/EUDkszmeDwru8bQL7>

Google Meet Link:
<https://meet.google.com/bja-nthg-pct>

E-Certificate for all
"Open for Faculties & Students"

Prof. (Dr.) Rama Principal	Prof. Vijay Rani Rajpal Vice-Principal	Ms. Alka Kacker IQAC Director	Dr. Ambika IIC Convener	Dr. R.K. Verma Teacher Incharge
Dr. Yogesh Kumar Ms. Chanchal Yadav Convenor(s)	Dr. Yagyadatta Goswami Dr. Mukesh K. Sahu Coordinator(s)	Mr. Keshav Jindal Ms. Shatakshi Srivastava Student Coordinator(s)		

X-Ray Diffraction (XRD): A Window into the Atomic World

01st March 2025
Hansraj College, University of Delhi

Dr. R. K. Mishra
AGM- Application & Sales
IR Technology Services Pvt. Ltd.
Rigaku Corporation, Japan

New Delhi, Delhi, India
Rz-10b, Street Number 5, Tughlakabad Extension,
Tughlakabad, New Delhi, Delhi 110019, India
Lat 28.524601° Long 77.259003°
01/03/2025 10:08 AM GMT +05:30

Bragg-Brentano para-focusing method

- The focusing condition
= θ - 2θ relation
= Target-sample = sample-receiving slit

target
Focusing circle
DS
BS
RG

Dr. Rakesh kr. is presenting

Dr. Rakesh kr. keshav Dr. Yogesh

You Ashok 92 others

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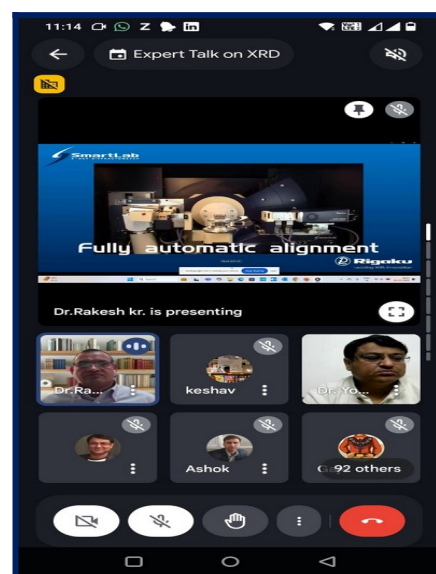
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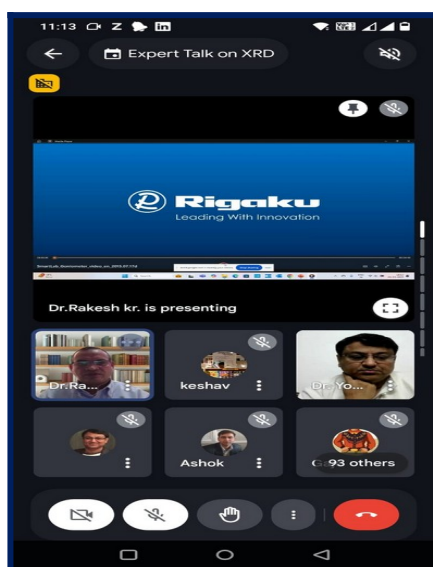
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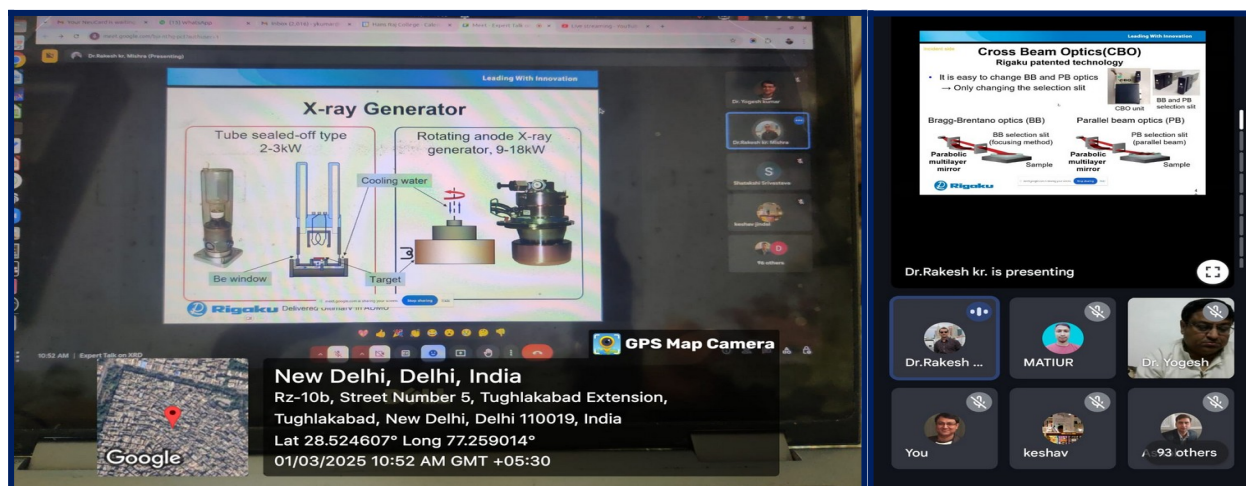
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Attach Attendance Sheet:

Timestamp	Name of Participant	Category	Department	College/Institute/University	Mobile
3/1/2025 11:36:02	ARCHITA SINGARIKA SARMAH	Student	Physics	Hansraj College	8822146882
3/1/2025 11:36:10	LAKSHYA	Student	Physical Science	Hansraj College	9990375891
3/1/2025 11:36:12	PREETI	Research Scholar	Physics	University of Delhi	7027603819
3/1/2025 11:36:13	MITUL JOSHI	Student	Physical Science	Hansraj College	7818095433
3/1/2025 11:36:16	PRATISHTHA	Student	Physical Science	Hansraj College	9306065588
3/1/2025 11:36:22	DR. MANISHA	Faculty	Physics	Atma Ram Sanatan Dharma College	9953856680
3/1/2025 11:36:24	BHAVNA VIDHANI	Faculty	Physics	Hansraj College, University of Delhi	9213759056
3/1/2025 11:36:26	ANKIT SRIVASTAVA	Student	Chemistry	Motilal Nehru College, South Campus	8354069925
3/1/2025 11:36:27	MANOJKUMAR N. PARMAR	Faculty	Physics	The HNSB Ltd Science College, Himatnagar	9427079327

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3/1/2025 11:36:32	SHRUTI SHARMA	Student	Physical Science	HANSRAJ COLLEGE	9416647316
3/1/2025 11:36:36	TANMAY PARASHAR	Student	Physics	HANSRAJ COLLEGE	6397923031
3/1/2025 11:36:38	ADARSH KUMAR GUPTA	Student	Physics And Astrophysics	Ramajs College, University of Delhi	7367895297
3/1/2025 11:36:39	PROF. SUPREETI DAS	Faculty	Physics	GARGI COLLEGE, DELHI UNIVERSITY	9810528425
3/1/2025 11:36:42	DR SONIA BHANDARI	Faculty	Physics	University of Delhi	9811604671
3/1/2025 11:36:44	POONAM JAIN	Faculty	Physics	Sri Aurobindo College, University of Delhi	9971072399
3/1/2025 11:36:47	ARCHITA SINGARIKA SARMAH	Student	Physics	Hansraj College	8822146882
3/1/2025 11:36:49	AMRITA SHEORAN	Student	Chemistry	Hansraj College, University of Delhi	87505 01918
3/1/2025 11:36:53	ISHU TOMAR	Student	Physics	Hansraj College University of Delhi	7579115591
3/1/2025 11:36:55	GAJE SINGH	Student	Physical Science	Hansraj College, University Of Delhi	7023401947
3/1/2025 11:36:58	YASH SINGH	Student	Physics	Hansraj College	8840587790
3/1/2025 11:36:59	LAISHRAM REHAN SINGH	Student	Physics	Hansraj College, University of Delhi	8974929655
3/1/2025 11:37:01	RAIMA BANIK	Student	Computer Science	Hansraj College	8167370557
3/1/2025 11:37:05	YASH CHOUDHARY	Student	Bsc Physical Science	Bsc Physical Science	8619476696
3/1/2025 11:37:06	DR. PRITI GOYAL	Faculty	Physics	Acharya Narendra Dev College, Kalkaji	9811350822
3/1/2025 11:37:08	URVASHI	Student	Other	Hansraj College Delhi University	8396031945
3/1/2025	KULKARNI	Faculty	Physics	Doodhsakhar Mahavidyalaya	0942262804

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11:37:09	SUDHIR			Bidri	8
3/1/2025 11:37:11	DR HEMA CHUTANI	Faculty	Physics	Hansraj College, University of Delhi	0987355353 2
3/1/2025 11:37:13	ASHISH TYAGI	Faculty	Physics	Swami Shraddhanand College	9213772834
3/1/2025 11:37:16	SAKSHI BISHT	Student	Physics	NSUT, dwarka sector 3 delhi	8376920907
3/1/2025 11:37:24	MUSKAN GUPTA	Student	Physics	Hansraj College (University of Delhi)	8076919219
3/1/2025 11:37:31	D.SUBASRI	Student	Physics	Alagappa university	9486903225
3/1/2025 11:37:34	YUVRAJ PRATAP SINGH	Student	Other	Hansraj College	9568985558
3/1/2025 11:37:38	MATIUR RAHAMAN	Other	Physics	ASSAM UNIVERSITY, SILCHAR	8250093911
3/1/2025 11:37:38	TANISHA	Student	Physical Science	Hansraj College, Delhi University	7727982577
3/1/2025 11:37:39	DHIRENDRA SAH	Faculty	Physics	KR Mangalam World School Greater Noida	9871681049
3/1/2025 11:37:44	ARADHYA MALIK	Student	Other	Hansraj	8791936466
3/1/2025 11:37:51	RAVIKANT PRASAD	Faculty	Physics	Hansraj College	9999623129
3/1/2025 11:37:54	SHIVAM	Student	Physical Sciences	Hansraj college, university of delhi	9076881587
3/1/2025 11:37:58	MEGHA	Student	Chemistry	Hansraj college, Delhi university	9812154002
3/1/2025 11:38:16	ANUJA PANDEY	Student	Physical Science	HANSRAJ COLLEGE	9120237168
3/1/2025 11:38:16	CHETNA	Faculty	Physics	Keshav Mahavidyalaya, University of Delhi	0921074429 3
3/1/2025 11:38:35	ADARSH KUMAR	Student	Msc Physics	Ramjas College, University of Delhi	7367895297
3/1/2025	ATUL DHIMAN	Student	Physics	Hansraj College	9968393743

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11:38:41					
3/1/2025 11:38:42	NIKHIL	Student	Physical Science With Chemistry	Hansraj College	8950443912
3/1/2025 11:38:45	BHARTI KUMARI	Student	Physics	Hansraj college delhi,110007	7701911293
3/1/2025 11:38:50	PRADEEP KUMAR	Faculty	Physics	Hansraj College, University of Delhi	9717580599
3/1/2025 11:38:51	ALLIS BOWLIN F	Student	Physics	Alagappa university, karaikudi	9003854558
3/1/2025 11:38:52	CHRIS ARNOLD KUMAR	Student	Physics	Hansraj College, Delhi	9971688703
3/1/2025 11:38:53	SHRISTY KUMARI	Student	Physical Science With Computer Science	Hansraj college, malika ganj,new delhi	6201695583
3/1/2025 11:38:55	AISHWARYA ASHOKAN	Student	Other	Hansraj College, University of Delhi	8076748353
3/1/2025 11:38:56	AMISHA	Student	Department Of Physics	Hansraj college DU	7042492830
3/1/2025 11:38:56	KOMAL VERMA	Research Scholar	Physics	DELHI TECHNOLOGICAL UNIVERSITY, NEW DELHI	7357006763
3/1/2025 11:39:00	MUSKAN	Research Scholar	Physics	Baba Mastnath University, Asthal Bohar ,Rohtak	9996124063
3/1/2025 11:39:02	DUSHYANT PRATAP SINGH	Student	Physics	Netaji Subhash university of technology, Delhi	8700477875
3/1/2025 11:39:05	MEENAKSHI	Student	Other	Hansraj College, Delhi University, Delhi	9253394497
3/1/2025 11:39:08	OM PRAKASH PANDEY	Student	Chemistry	Hansraj College Malka Ganj	7209088012
3/1/2025 11:39:09	PREETI	Research Scholar	Physics	University of Delhi	7027603819
3/1/2025 11:39:16	HARSH TANWAR	Student	Physical Science	hansraj college	9810753421

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3/1/2025 11:39:24	ARSHITA	Student		Hansraj College	8307885066
3/1/2025 11:39:25	ANUSHKA SHAKYA	Student	Physical Science	Hansraj College	7668905593
3/1/2025 11:39:29	MR. ARVIND KUMAR	Faculty	Physics Department	Dyal Singh College University of Delhi	9810558335
3/1/2025 11:39:34	DR. AMBIKA RANI	Faculty	Physics	Dyal Singh College, Karnal	9991311465
3/1/2025 11:39:36	DHIRENDRA SAH	Faculty	Physics	K R MANGALAM WORLD SCHOOL GREATER NOIDA	9871681049
3/1/2025 11:39:40	DR. MANISHA VERMA	Faculty	Physics	Acharya Narendra Dev College, University of Delhi	0991110407 0
3/1/2025 11:39:43	AMIT	Student	Electronic Science	Kurukshetra University Kurukshetra	8059231868
3/1/2025 11:39:57	LAISHRAM REHAN SINGH	Student	Physics	Hansraj College, University of Delhi	8974929655
3/1/2025 11:40:01	YUVRAJ PRATAP SINGH	Student	Bsc Physical Science With CS	Hansraj College	9568985558
3/1/2025 11:40:07	HARDEEP	Research Scholar	Maths	Baba Mastnath University, Rohtak	9996124063
3/1/2025 11:40:18	SHATAKSHI SRIVASTAVA	Student	Physics	Hansraj College, University Of Delhi	7081947640
3/1/2025 11:40:19	ADITYA SINGH	Student	Other	Hansraj college, UoD, Delhi-110007	6200617580
3/1/2025 11:40:24	MATIUR RAHAMAN	Other	Physics	ASSAM UNIVERSITY, SILCHAR	8250093911
3/1/2025 11:40:27	PAWAN GOUR	Student	Physical Science	Hansraj college kamla nagar Delhi	8829963998
3/1/2025 11:40:36	SUMAN KUMARI	Student	Physics	Hansraj College (University of Delhi)	8708009354
3/1/2025 11:40:39	RIYA KUSHWAHA	Student	Physics	Hansraj College	7248391347

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3/1/2025 11:40:45	PRIYANKA KUMARI	Student	Physics	Patna University (Patna science College)	8294708505
3/1/2025 11:40:46	KESHAV JINDAL	Student	Physics	Hansraj College, University Of Delhi, Delhi	9810633855
3/1/2025 11:40:49	NEHA YADAV	Faculty	Physics	KESHAV MAHAVIDYALAYA, PITAMPURA, DELHI	9911638691
3/1/2025 11:41:06	SANTOSH YADAV	Student	Other	Hansraj College University of Delhi	8881979307
3/1/2025 11:41:17	PRIYANSHU	Student	Physical Sciences	Hansraj college (Delhi university)	7505857992
3/1/2025 11:41:40	MEGHA	Student	Physical Science	Hansraj college	9812154002
3/1/2025 11:41:40	RIYA KUSHWAHA	Student	Physics	Hansraj College	7248391347
3/1/2025 11:41:45	DR GARGEE SHARMA	Faculty	Physics	Dayanand College Ajmer	9414262295
3/1/2025 11:42:03	MARIE ANTOINETTE JEAN DEMBELE	Student	Physics	HANSRAJ/DELHI UNIVERSITY	9266542533
3/1/2025 11:43:08	ARPIT SINGH	Student	Other	Hansraj College, University of Delhi	8650256500
3/1/2025 11:43:19	HARSHIT PANDEY	Student	Physics	Hansraj College, Delhi - 110007	8882113515
3/1/2025 11:44:53	VANSH WADHWA	Student	Physics	Hansraj College, New Delhi	7015047847
3/1/2025 11:44:54	YUVRAJ PRATAP SINGH	Student	Physical Science with CS	Hansraj College	9568985558
3/1/2025 11:45:20	PAWAN	Research Scholar	Math	Baba mastnath university, rohtak (haryana)	8950122371
3/1/2025 11:45:43	YOGITA	Student	Physics	Hansraj college	8295725575

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3/1/2025 11:46:30	PRABHAKAR YADAV	Student	Physics	Hansraj College	8936078452
3/1/2025 11:47:15	RIYA KUSHWAHA	Student	Physics	Hansraj College University of Delhi	7248391347
3/1/2025 11:51:50	EKTA	Student	Physics	Hansraj College Delhi 110 007, India	8799713671
3/1/2025 11:54:25	KARTIK GUPTA	Student	Physics	Hansraj College	99589 61580
3/1/2025 11:52:37	YOGESH KUMAR	Faculty	Physics	Hansraj College, University of Delhi	9810480618
3/1/2025 11:55:01	ANISHA HANSDA	Student	Physics	Hansraj College, North campus, North Delhi	9943319706
3/1/2025 11:56:56	PRAGATI SHARMA	Faculty	Physics	Gargi College, DU	0982179037 0
3/2/2025 11:57:56	DR. SANJEETA RANI	Faculty	Department of Physics	Acharya Narendra Dev College, Delhi	9810390390
3/2/2025 11:58:56	DR. S. N. PRAJAPATI	Faculty	Chemistry	Sheth P. R. Arts & Science College Gujarat	8690090068