## Ph.D. Programme at CIC

## Concept

In the line with the inherent interdisciplinary nature of the Centre, the Ph.D. programme at Cluster Innovation Centre is also interdisciplinary. The program strives to inculcate a research and innovation mind-set amongst the scholars. It seeks and drives research problems from different clusters of society, such as industrial, social, educational, health, environment, media etc. The major disciplines and subjects for the PhD program include

Disciplines	Subject areas
Interdisciplinary Sciences	Mathematics
	Information Technology
	Computer Science
	Physics
	Electronics
	Chemistry
	Life Sciences
	Computational Biology
	Nano-Technology
	Environmental Science
Humanities and Social Science	Education
	Management
	Media and Communication Studies
	Geography
	Hindi
	Psychology

## List of eligible PhD supervisors and their areas of specialization

SN	Name of the Ph.D. Supervisor	Designation	Areas of Specializations
1	Prof. Shobha Bagai	Professor	(Mathematics) Applied Mathematics
2	Dr. Harendra pal Singh	Assistant Professor	(Mathematics) Applied Mathematics, Robotics, Eco-Epidemiological Models, Dynamical Systems
3	Dr. Sonam Tanwar	Assistant Professor	(Mathematics) Computational Fluid Dynamics, Applied Mathematics
4	Dr. Nirmal Yadav	Assistant Professor	(Mathematics) Medical Imaging, Computed tomography, Magnetic resonance imaging
5	Dr. Sachin Kumar	Assistant Professor	<ul> <li>(Computer Science and Information Technology)</li> <li>Artificial Intelligence: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing(NLP)</li> <li>Urban Computing: Digital Transformation, Smart Transportation, Smart Buildings, Smart Cities and Communities.</li> <li>Computational Social Systems: Social Computing, Social Networks Analysis, Digital Bias and Digital Sociology.</li> <li>Information Systems: Intelligent Information Systems, Data Science, e-governance, Digital Governance, Internet Ecosystems, Social Media and ICT-based public policy.</li> <li>Design and Innovation: Analytics, Product Conceptualizations, Entrepreneurship, Start-Up and Consultancy.</li> </ul>
6	Dr. Anjani Kumar	Assistant Professor	(Computer Science and IT)
7	Dr. Manish Kumar	Assistant Professor	(Computer Science and IT)
8	Prof. Bibhu Biswal	Professor	(Physics)
9	Prof. Pankaj Tyagi	Professor	(Physics)

10	Prof. Mahima Kaushik	Professor	(Chemistry and Nanotechnology); Nano-biotechnology for biosensing, gene
			delivery, drug delivery and environmental remediation applications;
			Biophysical Chemistry; Structural Biology
11	Dr. Jogeswar S. Purohit	Assistant Professor	(Life Sciences) Epigenetics and Chromatin Biology
12	Dr. Asani Bhaduri	Assistant Professor	(Life Sciences) Molecular Biology, Computational Biology, Wild Life Biology
13	Dr. Dorje Dawa	Assistant Professor	(Environmental Sciences)
14	Prof. Jyoti Sharma	Professor	(Education)
15	Dr. Alka Dutt	Assistant Professor	(Education)
16.	Dr. Geetanjali Kala	Assistant Professor	(Media and Communication Studies)
17	Dr. Saleem Mir	Assistant Professor	(Geography)
18	Dr. Sanjeewani Sehgal	Assistant Professor	(Management- Marketing & Consumer Behaviour, Value co-creation, Services
			Marketing, Service Innovation & Strategy.