

## About Faculty

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## Area of Expertise

- Artificial Intelligence and Machine Learning
- Data Science in Python
- Blockchain Technology
- .Net Technology
- Software Engineering
- DBMS
- Data Structures
- Operating Systems

## Academic/Professional Qualification

Degree/ Certificate	University/Board/Institute	Year of Passing
M Tech (C Level)	NIELIT	2014
MCA (B Level)	DOEACC	2005
PGDCA	Kurukshetra University	1998
Masters in Economics	Punjab University	1991

## Experience

<b>Teaching/ Training</b>	<p><b>25 years of teaching Experience. Taught various subjects like:</b> Artificial Intelligence, Data Science in Python, Blockchain Technology, Web Application using ASP.Net and C#.Net, Data Structures, Database Management System, Network Security, Operating Systems, Unix.</p> <p>Imparted trainings to BTech, MTech, MCA students in Summer Training and 6 months industrial training batches and to graduates in PGDCA, A Level and B Level batches. Also imparted training to technical officials and Sr Officials of various Corporates, Banks and Organisations.</p>
<b>Software Development</b>	<p>Designed and Developed Software's for various projects like:</p> <ul style="list-style-type: none"><li>• Registration and Examination module of NCPUL.</li></ul>

	<ul style="list-style-type: none"> <li>• Chandigarh Education Department Counselling Project for admissions to 10+1 in more than 42 government schools of Chandigarh (in a team)</li> <li>• PSEB Online Electricity Billing (in a team)</li> <li>• Training Management System of NIELIT Chandigarh</li> <li>• Registration Module of NIELIT Courses.</li> </ul>
<b>Projects/ Product Development</b>	<ul style="list-style-type: none"> <li>➤ Project coordinator for Work Based Learning Scheme of Meity for upskilling selected candidates in emerging technologies.</li> <li>➤ Coordinator for NIELIT Virtual Academy and Alumni Data</li> <li>➤ Quality Assurance and Placement Officer</li> <li>➤ Nodal Officer for Social Media</li> <li>➤ Nodal Officer for Swachhta Action Plan</li> <li>➤ Coordinator for IIT Ropar Joint Certification Programs</li> </ul>

## Research Publications

Title	Year of Publication	Journal	Link (if any)
Block Chain Based Supply Chain Management: An Overview	2019	International Journal of Control and Automation vol 12(5)	
Artificial Intelligence, Machine Learning and Deep Learning	April, 2019	NIELIT Newsletter	
Blockchain Based Supply Chain Management	January, 2021	NIELIT Newsletter	

## Expert Lecture Delivered (outside NIELIT)

Topic	Institute/College
<b>Artificial Intelligence and Machine Learning</b>	Rayat Bahra Group of Colleges Punjabi University, Patiala IET Bhaddal, Ropar Mata Gujri College, Fatehgarh Sahib Post Graduate Govt College for Girls, Chandigarh
<b>Data Science in Python</b>	DCRUST State University, Murthal DAVIET, Jalandhar IET Bhaddal, Ropar Govt College, Ropar Chandigarh College of Engineering
<b>Interdisciplinary Role of AI Refresher Course in ICT</b>	Punjabi University, Patiala Faculty of Various Colleges and University under UGC-HRD Centre of Punjabi University, Patiala
<b>AI Infrastructure for Modern Innovators</b>	Fore Solutions in collaboration with Pure Storage
<b>Blockchain Insights into Blockchain Technology</b>	Rayat Bahra Group of College Punjabi University, Patiala
<b>Big Data using Hadoop</b>	Chandigarh University, Punjab DAVIET Jalandhar National Agri-Food Biotechnology Institute (NABI) PTU Campus, Mohali Post Graduate Govt College for Girls, Chandigarh

<b>Employability of Indian Youth &amp; Career Opportunities in Computer Industry</b>	Punjab University, Placement Cell of all Departments
<b>Advance Data Structures</b>	Chandigarh College of Engineering, Chandigarh
<b>Web Applications in ASP.Net</b>	DAV College, Chandigarh MCM College, Chandigarh
<b>Implementing MOOC's Using Moodle</b>	Bela College, Ropar
<b>Information Security</b>	TBRL, Ramgarh, Panchkula
<b>Digital Payments</b>	Senior Citizens Council, Ropar Small Sector Businessmen, Una Small Sector Businessmen, Chandigarh, Haryana, Punjab
<b>e-Waste</b>	ITI, Mohali Govt School, Sector 47, Chandigarh

## Others

### Trainings/ Workshops Attended:

- Big Data Analytics in Noida
- Promoting Best Practices in social media at Meity
- Designing and Development of MOOCs, Punjab University
- Introduction to Deep Learning from Indo-Taiwan Centre, IIT Ropar
- Certified Oracle Course at CCET Chandigarh
- Big Data at CDAC Mohali

Member of HQ's Expert Group of **AI** for revision of Syllabi and designing NSQF files.

Member of HQ's Expert Group of **Blockchain** for Syllabus design, preparation of NSQF files and conducting Awareness Programs and FDP's.

NIELIT Courses Syllabus Design and Revision

Project Guide to students of 6 months industrial training in AI, Blockchain, Data Analytics.