

Dr. Neelam Goel
Assistant Professor
Department of Information Technology
UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY
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Educational Qualification

- Ph.D., Department of Computer Science & Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, January, 2019.
Thesis Entitled “Development and Analysis of a Model for Automatic Gene Prediction Using Soft Computing Techniques” under supervision of Prof. (Dr.) Shailendra Singh and Prof. (Dr.) Trilok Chand.
- M.E., Department of Information Technology, University Institute of Engineering & Technology, Chandigarh, 2009.
- B.Tech., Department of Computer Science & Engineering, JIET, Kurukshetra University, Kurukshetra, Haryana, 2006.

Research Interests:

My general research interests are in the areas of Bioinformatics and Computational Biology. Specific research interests include Genome Annotation, Biological age prediction in Humans, Clinical outcome prediction using Microarray data. Currently, I am exploring medical imaging informatics.

Professional Experience:

- 31st December, 2014 - Current: Assistant Professor, Department of Information Technology, University Institute of Engineering & Technology, Panjab University, Chandigarh.
- 1st May, 2011- 25th June, 2012: Assistant Professor, Department of Computer Science & Engineering (CSE), Baddi University of Emerging Sciences and Technology (BUEST), Baddi, Himachal Pradesh.
- 11th June, 2009 – 30th April, 2011: Lecturer, Institute of Engineering and Emerging Technologies (IEET) **now BUEST**, Baddi, Himachal Pradesh.
- 12th February, 2007 – 4th October, 2007: Lecturer, Institute of Engineering and Emerging Technologies (IEET) **now BUEST**, Baddi, Himachal Pradesh

Teaching & Academics

Subjects Taught:

S. No.	Name of Subject	Program	Level	No. of times taught
1.	Human Computer Interaction and User Interface Design	B.Tech. (IT)	Undergraduate	01
2.	System Analysis and Design	B.Tech. (CSE)	Undergraduate	01
3.	Natural Language Processor	B.Tech. (CSE)	Undergraduate	03
4.	Computer Fundamentals and Programming in C	B.Tech. (Mechanical)	Undergraduate	01
5.	System Software	B.Tech. (CSE)	Undergraduate	01
6.	Object Oriented Programming using C++	B.Tech. (Mechanical)	Undergraduate	01
7.	Compiler Design	B. Tech. (CSE) and B.E (IT)	Undergraduate	04
8.	Advanced Database Management Systems	M.E(CSE)	Postgraduate	01
9.	Soft Computing	B.E (IT)	Undergraduate	03
10.	Computer Graphics (Practical)	B.E (IT)	Undergraduate	01
11.	Business Intelligence and Software Engineering (Practical)	B.E (IT)	Undergraduate	03
12.	Object Oriented Programming using C++ (Practical)	B.E (IT)	Undergraduate	03
13.	Operating Systems	B.E Final Year (Under Infosys Campus Connect)	Undergraduate	01

Technical proficiency:

- **Programming languages** : C, C++, Python
- **Front ends** : Visual Basic
- **Back ends** : SQL server, MySQL
- **Web** : VB.Net
- **Simulators** : MATLAB
- **Operating systems** : Windows variants, Machintosh
- **Analysis Tools** : Weka

Academic Achievements:

- Qualified Gate with 88.25 Percentile in March 2011
- Awarded with Gold Medal by Panjab University for Standing First in M.E(I.T) in 2009
- Awarded with Merit Certificate by Panjab University Alumni Association for Academic Excellence in M.E(I.T) in 2009
- Awarded with Merit Certificate by the Institute for standing 3rd in B.Tech. 3rd year in 2004

Seminars/Short Term Courses/Summer Schools/Winter Schools/Workshops/FDPs/Symposium attended:

S. No.	From	To	Institute	Sponsored By	Name of Course
1	7 th December, 2009	11 th December, 2009	IEET now BUEST, Baddi	WIPRO	Mission10X
2	20 th March, 2010	21 st March, 2010	IEET now BUEST, Baddi	Kyrion Digital Securities	Ethical Hacking and Information Security
3	6 th August, 2010	6 th August, 2010	Baddi University Of Emerging Sciences and Technology (BUEST), Baddi	Pearson Education India	Computer Fundamentals and C Programming
4	15 th March, 2011	17 th March, 2011	Infosys, Chandigarh	Infosys Technologies Ltd.	Technology Train the Trainer
5	18 th July, 2011	29 th July, 2011	NITTTR, Chandigarh	Education and Educational Management Department, NITTTR, Chandigarh	Induction Training Programme For Newly Recruited Teachers
6	20 th October, 2011	20 th October, 2011	Infosys, Chandigarh	Infosys Technologies Ltd.	Techie Track-CaseFolio Contest of INSPIRE-The Faculty Contest Series (Second Runner-Up)

7	28 th August, 2012	28 th August, 2012	PEC University of Technology, Chandigarh	Department of CSE	Round Table Conference on “Critical Information Infrastructure Protection-Towards building a cyber safe city”
8	12 th November, 2014	12 th November, 2014	PEC University of Technology, Chandigarh	TEQIP	Research Scholars Congregation
9	4 th May, 2015	8 th May, 2015	NITTTR, Chandigarh	TEQIP	Build My Smartphone
10	8 th August, 2015	8 th August, 2015	PGIMER, Chandigarh	Association of Basic Medical Sciences	Clinical Applications of Next Generation Sequencing and Microarray
11	20 th November, 2015	20 th November, 2015	CII(NR), Chandigarh	C-DAC Bangalore	Digital Signatures and Public Key Infrastructure
12	23 rd May, 2016	28 th May, 2016	UIET, Chandigarh	TEQIP	Data Analytics and Big Data
13	17 th November, 2016	18 th November, 2016	UIET, Chandigarh	TEQIP	Emerging Trends in Telecommunication and IT
14	9 th January, 2017	14 th January, 2017	UIET, Chandigarh	TEQIP	Effective Teaching
15	18 th September, 2017	19 th September, 2017	UIET, Chandigarh	DIC	Innovative Design Contest
16	6 th May, 2019	13 th May, 2019	UIET, Chandigarh	Infosys Ltd.	InfyTQ based Foundation Program

Faculty Development Program(s)/ Workshops Organized:

S. No.	Name of the Course	Duration	Sponsored by
1.	Workshop on Complete Open Source Solutions	9 th May, 2018	TEQIP
2.	Workshop on Internet and Car Safety	20 th July, 2016	Consumer Voice (Citizens Awareness Group)
3.	Workshop on Ethical Hacking and Information Security	20 th -21 st March 2010	Kyrion Digital Securities

Membership of University / Institute Bodies:

S. No.	Name
1.	Member of Technical Committee (2018), UIET, PU, Chandigarh
2.	Member of TEQIP III Academic Committee (2017-Present), UIET, PU, Chandigarh
3.	Member of UTECHNOS Technical Committee (2016-2017), UIET, PU, Chandigarh

Membership of Professional Bodies:

S. No.	Name
1.	Life Member of Indian Society for Technical Education (ISTE)-LM 68818 since 2010
2.	Life Time Member of Panjab University Alumni Association

Research Profile**Details of Ph.D. Students:**

S. No.	Name	Status / year	Title
1	Ms. Deepali, Assistant Professor, Guru Nanak College, Budhlada, Punjab	Enrolled / 2019	-

Details of M. Tech. students:

S. No.	Name	Year	Title
1	Ms. Priya Karir, IT, UIET, PU, CHD	2016	Human Age Prediction Using DNA Methylation and Regression Techniques
2	Mr. Ashwinder Singh, IT, UIET, PU, CHD	2017	Integrative Analysis of Multi-Genomic Data For Kidney Renal Cell Carcinoma
3	Mr. Mohd. Ismile Mir, IT, UIET, PU, CHD	Pursuing	-
4	Ms. Vagisha Sharma, IT, UIET, PU, CHD	Pursuing	-

Books Published:

S. No.	Name	Co-Authors, if any	Year	Publisher	ISBN no.
1	Ontology Based Personalized System	-	2013	Lambert Academic Publishing	978-3-659-34064-2

Research Publications:

Journals	
1.	Dharambir Kashyap, Hardeep Singh Tuli, Katrin Sak, Vivek Kumar Garg, Neelam Goel, Sandeep Punia, Ashun Chaudhary, "Role of Reactive Oxygen Species in Cancer Progression", Current Pharmacology Reports, Springer, 5(2):79-86, April 2019 (Scopus).
2.	Dharambir Kashyap, Hardeep Singh Tuli, Vivek Kumar Garg, Neelam Goel, Anupam Bishayee, "Oncogenic and tumor-suppressive roles of MicroRNAs with special reference to apoptosis: Molecular mechanisms and therapeutic potential", Molecular Diagnosis & Therapy, Springer, 22(2):179-201, April 2018 (SCIE, IF 2.716).
3.	Neelam Goel, Priya Karir, Vivek Kumar Garg, "Role of DNA Methylation in Human Age prediction", Mechanisms of Ageing and Development, Elsevier, 166:33-41, September 2017 (SCI, IF 3.748).
4.	Neelam Goel, Shailendra Singh, Trilok Chand Aseri, "An improved method for splice

	site prediction in DNA sequences using support vector machines”, Procedia Computer Science, Elsevier, 57:358-367, 2015 (Scopus).
5.	Shailendra Singh, Sukhbir Kaur, Neelam Goel, “A review of computational intelligence methods for eukaryotic promoter prediction”, Nucleosides, Nucleotides and Nucleic Acids, Taylor & Francis, 34(7):449-462, July 2015 (SCIE IF 0.831).
6.	Tripti Nassa, Shailendra Singh, Neelam Goel, “Splice Site Detection in DNA Sequences using Probabilistic Neural Network”, International Journal of Computer Applications, Foundation of Computer Science, 76(4):1-4, August 2013.
7.	Neelam Goel, Shailendra Singh, Trilok Chand Aseri, “A comparative analysis of soft computing techniques for gene prediction”, Analytical Biochemistry, Elsevier, 438(1):14-21, July 2013 (SCI IF 2.275).
8.	Neelam Goel, Shailendra Singh, Trilok Chand Aseri, “A review of soft computing techniques for gene prediction”, ISRN Genomics, Hindawi Publishing, 2013:1-8, March 2013.
9.	Neelam Goyal, Mukesh Kumar, Renu Vig, “Consistency Enforcement Using Ontology on Web”, Journal of Computers, Academic Press, 5(10):1520-1526, October 2010 (Scopus).
Correspondence	
1.	Vivek Kumar Garg, Rimpay Charak, Neelam Goel, “Urine osteopontin: A biomarker for diagnosis of nephrolithiasis?”, Clinical Biochemistry, Elsevier, 63:152, 2019 (SCI IF 2.584).
2.	Vivek Kumar Garg, Neelam Goel, “Importance of Variables in Nonalcoholic Fatty Liver Disease Patients”, Indian journal of endocrinology and metabolism, Wolters Kluwer--Medknow Publications, 22(4):570, July 2018 (Scopus).
3.	Vivek Kumar Garg, Neelam Goel, Dharambir Kashyap,” “The explanatory variable age is non-significant in diabetic nephropathy (DN) patients” Clinical Biochemistry, Elsevier, 55:96, May 2018 (SCI IF 2.584).
International conferences	
1.	Neelam Goel, Shailendra Singh, Trilok Chand Aseri, “Neural network based splice site prediction methods”, IEEE 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), pp. 4282-4287, 2016.
2.	Tanvi, Neelam Goel, Manavjeet Kaur, IEEE 2015 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS), pp. 1-4, 2015.

3.	Neelam Goyal, Mukesh Kumar, Renu Vig, Puneet Jai Kaur, “Consistency Management and Content Editing using Ontologies on Personalized Web”, IEEE 2009 International Advance Computing Conference (IACC), pp. 1694-1696, 2009.
National Conference	
1.	Neelam Goyal, Deepika Koundal, “Resource Description Framework of Semantic Web”, National Conference (NCEIT), 2008.

Papers/Poster presented in Conferences:

S. No.	Title of the paper	Name of Conference
1.	Bioinformatics and its Applications	CHASCON (2017)
2.	Evaluation of neural network based splice site prediction methods on human genomic sequences	IEEE International Conference on Electrical, Electronics, and Optimization Techniques (2016)
3.	Consistency Management and Content Editing using Ontologies on Personalized Web	IEEE International Advance Computing Conference (2009)
4.	Resource Description Framework of Semantic Web	National Conference –NCEIT (2008)

Session chair in International Conferences:

S. No.	Name of Conference / Workshop
1.	International Conference on Recent Advances in Engineering & Computational Sciences (RAECS), Dec. 21-22, 2015 at University Institute of Engineering & Emerging Technologies, Panjab University, Chandigarh

Research Credentials: Scopus Author ID: 55673677900, ORCID ID: orcid.org/0000-0002-1577-4530

Google Scholar Total citations as on date 112, h-index =6 and i-index = 5 https://scholar.google.co.in/citations?user=ZzAlgFYAAAAJ&hl=en
Scopus Total citations as on date 45, h-index=4 and Documents=12 https://www.scopus.com/authid/detail.uri?authorId=55673677900

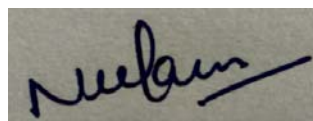
Reviewer of Journals:

- Briefings in Bioinformatics
- IEEE Access
- Molecular Ecology Resources
- Chemometrics and Intelligent Laboratory Systems

Key References:

- Prof. (Dr.) Shailendra Singh (Ph.D. Research Guide)
Department of Computer Science and Engineering,
Punjab Engineering College, Sector 12,
Chandigarh, India
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- Prof. (Dr.) Trilok Chand Aseri (Ph.D. Research Guide)
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Punjab Engineering College, Sector 12,
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- Prof. (Dr.) Krishan Saluja
Coordinator (Department of Information Technology)
University Institute of Engineering & Technology,
Panjab University, Sector 25,
Chandigarh, India
k.salujaiet@gmail.com, +91-8288012014

I hereby declare that the above information is true to best of my knowledge.

A handwritten signature in blue ink, appearing to read 'Krishan Saluja', is written over a horizontal line.

(Signature)