

## Bio-Data



**Dr.(Mrs.) Ela Kumar ,**  
**Dean Student Welfare and Chief proctor**  
**(Ex Dean, Academic Affairs)**  
**Professor and HOD ,** Department of Computer Science and Engineering,  
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**Professional Experience: 29 Years**

**Professional Qualification:**

**High school :**

**Intermediate**

- **Ph. D. (Artificial Intelligence)** from University of Delhi, in 2003.  
(Topic: Design and Development of Pronominal Anaphora Resolution System).
- **M. Tech (Computer Science & Technology)** from IIT Roorkee in 1990.
- **B.E. (Electronics & Communication)** from IIT Roorkee in 1988.
- **GATE cleared : Percentile 94.29 year 1988.**

**Foreign Visits :**

- Visited University of California, Berkely, USA in Oct 2011 to present a research paper in an International Conference organized by International Association of engineers.
- Visited Imperial College London to present a research paper in International Conference and chaired a session also from 4-6<sup>th</sup> July 2012.
- Visited Hongkong in 11-13 March 2014 to present a research paper in International Conference on IMCES, organized by International Association of Engineers.
- Visited Bagkok in Nov 2014 As a conference chair of International congress on Artificial Intelligence

**Awards won:**

- (i) Biography included in “**Asian Admirable Achievers**” by an International organization “

- Rifacimento International” in year 2010.
- (ii) Selected for **Rashtriya Gaurav Award** by IIFS society in Nov 2010 for meritorious activities in the field of IT.
- (iii) Received Shiksha Gaurav Puraskar 2014 by Centre for education growth and research
- (iv) Was awarded as Rashtriya Shikshak Samman for contribution in higher technical ducation, by Rashtriya Shikshak Sangh on 8<sup>th</sup> April 2018, in ceremony held in ITS college , Noida,
- (v) 1<sup>st</sup> International Scientist award on Engineering , Science and Medicine. By VGOOD society

### Membership of Professional / Academic Bodies

Sr No.	Description	
1.	<b>Professional Bodies</b>	Life Member , Institution of Engineers, Kolkata, INDIA. ( M 132390-8) 7539
2.		Life Member Institution of Electronics and Telecommunication Engineers, New Delhi.
3.		Life Member, Indian Society for Technical Education, New Delhi. (LM- 37794) 7540
4.		Life Member, Computer Society of India. Membership no: 01210390
5		Member International Association of Engineers Member No: 117007 Picture Membership.pdf
5		Member, Society for Women Engineers
7		Member, International Water Association, Id 8559, Membership taken 6.05.2019
8	<b>Academic Bodies</b>	Member, Court of IGDTUW, ( office order number No:F.16(5) /Plg/IGDTUW/2017/13-22 dated 1 <sup>st</sup> March) for a period of five years or till Dean AA
9		Member, Board of Studies, Board of Management, Academic Council, Board of Studies, IGDTUW, Delhi
10		Member, First Senate, Netaji Subhash University of Science and Technology, Sector 3 Dwarka
11		Expert member of Artificial intelligence, CURIE expert committee, Department of Science and technology, Delhi 2018
12		Member expert committee, constituted for the purpose of revising MCA program, of Indira Gandhi National open University, Maidan Garhi, Delhi

		Member finance committee,, Indira Gandhi Delhi Technical University for women, Delhi
13		Member, Board of Management, Academic Council, Board of Studies, School of ICT , Gautam Buddha University.
14		Member Doctoral Research Committee “ Amity University”.
15		Member Doctoral Research Committee “ Delhi Technological university, Delhi”.
16.		Member Doctoral Research Committee “ Birla Institute of Technology and Management, Mesra Ranchi.
17		Member Board of Studies of Maharishi University Rohtak
18		Member Women Cell, J C Bose University of Science and Technology, Sector 6, Faridabad
19.		Member Board of Studies of Deenbandhu ChootuRam University of Science and Technology, Murthal, Letter No DCRUST/CSE/1283
20.		Nominated Expert Member of National level professional bodies like DOEACC, Institution of Engineers for academic purposes.
21.	Member technical evaluation committee, Ministry of IT	Nominated member of technical evaluation committee of papers of Global Cyber Space Conference, organized by ministry of IT, on 23-24 <sup>th</sup> November 2017.

<b>Administrative Responsibilities Currently holding at IGDTUW</b>		
Sr no.	Designation	Description
1	HOD CSE	Administering all responsibilities of HOD. The duty is assigned w.e.f 06.01.2017.
2	Dean Student welfare	Assigned the responsibility w.e.f 10.09.2018 for a period of three years Letter no No.F3 (01) / Admn/ 2013/ IGDTUW/ Vol II/813
3	Chief proctor	No. F. (01)/ Admn . 2013/ IGDTUW/ Vol II/ 714(A) date 20.08.2018
4	Dean Academic Affairs	To coordinate various administrative / academic Activities at university level for the duration November 2014-November 2017
5	Member	Academic council, board of management, finance

		committee
6	Chairperson	High level fact finding committee, for SMDP project
	Member,	Standing committee constituted for examining matters related to pay fixation on account of acquiring Ph D , No. F. (2) (194) / admin/ PF/ 2018/982 dated 8.10.2018
7	Chairperson	Committee constituted for allocation of hostel fund
8	DRC, IGDTUW	Member Doctoral research committee, IGDTUW,
9	Member	Joint inspection committee , of GGSIPU constituted for giving affiliation to colleges.
10	Member Delhi State level committee constituted for the purpose of framework design for choice based credit system	Constituted by Directorate of Technical Education, Delhi, for CBCS.
11	Admission officer PG / Ph D programs for three academic session for the admission of 2015-16, 2016-2017, 2017-2018	Developing on line portal for receiving of applications for various programs, scrutiny of applications , rank list generation and conducting counselling
12	Nodal Officer , IGDTUW	All India Survey on Higher Education
13	Member	Student welfare committee
14	Central coordinator,	Spoken Tutorial project of IGDTUW,
15	Professor in charge, Department of Architecture and Planning	Establishing the new department of Architecture and Planning
16	Centre Suptd, exam	To conduct the exam at Semester IGDTUW

<b>Administrative Responsibilities Undertaken Earlier</b>			
Sr No	Organisation	Responsibility	Description
1.	Gautam Buddha University	Chairperson , Centre of Intelligent System	A centre of excellence, providing facilities for development of intelligent systems.
2.		Dean SICT 7687	School has <b>Research program</b> for full time and working professional, <b>M.Tech( ICT)</b> program for Engineering graduates and <b>M.Tech ( ICT)</b> program for Science Graduates, B.Tech + M.Tech Dual Degree Program in Electronics and Communication Engineering and Computer Science and Engineering. School offers four specializations at M.Tech Level namely Intelligent Systems and Robotics, Software Engineering, Wireless Communication & Networks and VLSI Design
3.		Dean SOE	Has department, Electrical , Mechanical , Civil, Architecture. B.Tech + M.Tech programs are offered in all departments.
4		Admission and exam officer	Conducted exams and admissions in GBU
5.		Coordinator NMEICT	National Mission on Education through ICT. A much valued MHRD sponsored XXI five year plan project). It is very ambitious project of MHRD which involves creation of national level knowledge repository, providing broadband connectivity to universities through BSNL optical fiber layout, reception and dissemination of live A-view lectures to the students of university
6.		Office Incharge of Telephone	Performed complete job of Laying the telephone network in the campus of GBU. Developed/ installed a software for automatic complaint handling in telephones
7		Chairperson	exam and admission GBU
8		Chairperson, Tender Preparation and Opening Committee	A university level committee monitoring all process related with tendering.
9		Member, Research Advisory Committee	University level committee monitoring all issues related to research
10.		Faculty incharge “ Robotic club and hobby programming club	Faculty Advisor of clubs guiding student activities in these areas
11.		Member state level ERP Committee	Constituted by Board of Management for procuring ERP solutions for GBU

12.		Mentor of specialization “ Intelligent System and Robotics	Preparation of Syllabus and all related functions of M.Tech specialization at SICT, GBU.
13.	YMCA IE	Time table incharge	CSE Deptt
14.		Centre suptd	To conduct MDU semester examaintion.
15	BIET Jhansi	Deputy Registrar	All works of deputy registrar ( for a period of six months)

### Details of Professional Activities

Sr No ( des order)	Year	Role	Description
86	2019	Invited speaker	In international Conference on Contemporary Engineering and technology, April 26-27 , 2019, at Indraprastha Engineering College, Gaziabad, UP
85		Expert lecture	Rawal Institute of Engineering and technology
84		Live session on AKASHWANI and Fm radio	Participated as panelist in live session on AKASHWANI, to answer students related queries , from 9-10 Am, on 18.05.2019
83		Session Chair	In international Conference on Contemporary Engineering and technology, April 26-27 , 2019 at IEC, UP
82.	2018	Expert speaker	Delivered an expert lecture in FDP on e governance organized by Academic staff college, JNU on 3 <sup>rd</sup> August 2018
81.		Invited speaker	Delivered an expert lecture in on cloud computing and its applications on 11 <sup>th</sup> August from 10.00 Am to 1.00 Pm at Rawal institute of engineering and technology.
80.		Expert speaker	Given an invited talk on knowledge engineering and AI based systems design on 14 <sup>th</sup> September 2018 from 11.00 am to 2.00 pm at Rawal institute of Engineering and Technology.
79.	2018	Technical program committee member	Two days international workshop held at CDAC noida
78.		Invited speaker as resource person	One week FDP on formal languages and automata on 12 <sup>th</sup> June 2018 at GL bajaj Institute of technology, Mathura
77.		Keynote speaker	2 <sup>nd</sup> international conference on advanced in computing and data science , organized by department of computer science and engineering , uttrakhanchal university, uttrakhand
76.	2018	Keynote Speaker	IN international conference on contemporary issues in business

			management, held in Gautam Buddha University, Greater Noida on 1 <sup>st</sup> June 2018
75.		Invited Speaker	Topic: Big data analytics and its challenges, In one Week FDP on : Soft Computing” held in GL bajaj, institute of technology, Mathura on 12 June 2018
74.		Member editorial board and journal reviewer	Association of developers and scientific foundations, journals
73.		Invited Speaker	Topic: Concept of swarm intelligence and analysis of ANT colony models In one Week FDP on : Soft Computing” held in JSS academy Noida on 14 June 2018
72.		Invited Speaker	Topic: Latest trends inn Artificial Intelligence, In one Week FDP on : Soft Computing ” held in ABESIT, Gaziabad on 15 June 2018
71.		Advisory board	CDAC noIDA
	2017		
70.		Member Advisory Committee	National Conference on Information technology , Electronics and Management, organized by CDAC Noida, on July 20-21 , 2017
69.		Member Editorial board	MAT journals,
68.		Expert Talk	Delivered expert talk on “ Concept of Swarm Intelligence and its application in system design” Springer International Conference on Pattern Recognition ICPR 2017, held on 22-23 December 2017,
67.		Expert lecture	Pervasive computing and its relevance in present context. In JIMS Engineering management technical campus on 16.09.2017 from 11.00 Am to 1.00 Pm
66.		Expert lecture	Artificial Intelligence Applications in Real Time Systems”, on 07 April 2017 from 3.00 to 5.00 Pm in Department of Engineering and Technology, at JIMS Noida,
65.		National advisory board member	National conference on Advances in Mathematics and computing, organized byu YMCA university of science and technology, Faridabad, copy available in documents
	2016		
64.		Expert lecture	Delivered an expert lecture on “ Programming languages Paradigm for devices” on 11 November 2016 from 3.00 to 5.00 Pm in JIMS Engineering Management Technical Campus,
63.		Expert lecture	Invited to deliver an expert lecture in Linguistic department , Delhi University on Natural Language processing to Korean Students on Nov 9, 2016
62.		Member, organizing Committee	International Conference on information Technology ( InCITE) the next generation IT summit, 2016
61.		Member national	International Conference on Advancement in Electrical ,

		Advisory Board	Electronics and Computer Engineering, RD college of engineering, 12-13 August 2016 7705
60.		Expert Lecture	Invited for a expert lecture on the topic Semantic Web, on 8 <sup>th</sup> April 2016 in NIT Jaipur
59.		Keynote Speaker	International Conference on Big data Analysis and Business administration, held on 17-18 march 2016, organized by Army Institute of Technology and Management
58.		Keynote speaker	National conference on Innovation and technology strategy in cloud computing and Information security, organized by Lingyas university from December 08-09 2016,
57.		Technical Advisory committee	Member of advisory committee for 1 <sup>st</sup> National conference in “ Computational Intelligence Communication network and Smart Grid” held in HRM institute of technology on 19-20 February 2016
	2015		
56.		Member, Advisory Committee	National Conference on Emerging trends in Computer Science and Information technology, organized by Rawal Institutions, on 10 <sup>th</sup> January 2015.
55.		Expert Lecture	Development of semantic web and its latest features, JSS academy noida 23 7 2015
54.		Expert Lecture	Development of Latest phishing techniques and methodology used for its identification 27.12.2017, JSS academy noida 27 12 2016
53.		Expert Lecture	Development of knowledgebase Expert system , JSS academy noida 23 2 2017
52.		Expert Lecture	Delivered one expert lecture on Search engine optimization and its applications, Rawal institute of engineering and technology, on 11.11.2016 from 10.00 am to 2.00 PM
51.		Expert Lecture	Delivered an expert lecture on Latest developments in machine learning techniques, on 27-09-2016, at JSS academy Noida
50.		Expert Lecture	Concept of deep learning and its its applications 23.02.2016
49.		Key Note Speaker	Third international conference on Recent Trends in Computing, organized by SRM university on 12- 13 march 2015, 7531
48.		Invited Expert Lecture	Concept of Swarm Intelligence and Ant Colony Models” in Central university Rajasthan on 2 <sup>nd</sup> March 2015,
47.		Session Chair	Third International Conference on Recent Trends in Computing, organized by SRM university on 13 March 2015,
46.		Member Technical Committee	International Conference on Latest Trends in Computer Science Engineering and Information Technology, Impact factor: 1.521 E-ISSN 2321-3337 ( <a href="http://cse.researchcommunity.in/committee.html">http://cse.researchcommunity.in/committee.html</a> )



45.		Member Technical Committee	International Conference on Emerging Trends in Engineering and Technology, March 19-21, 2015, Tamilnadu, India
44.		Member National Advisory Committee	IEEE sponsored International Conference on Electronics Communication and Computational Engineering 7704
	2014		
43.		Conference Chair	International Congress on Artificial Intelligence, icai2014, a world level congress organized by ASDF, held in Bagkok in Nov 2014
42.		Expert lecture	Invited to deliver an expert lecture in Linguistic department , Delhi University on role of ICT in education to Korean Students on Nov 24, 2014
41.		Member Technical Program committee	IEEE sponsored International Conference on Advanced Computing February 21-22, 2014, Gurgaon, India
40.		Article in newspaper	Article in newspaper Veer Arjun, “ Role of ICT in education sector” . Also available online with link : <a href="http://www.cegr.in/newsletter/fourth%20issue.pdf">www.cegr.in / newsletter/fourth% 20 issue.pdf</a>
39.		Article in newspaper	Published article “ <i>ICT se Sanchar hua aur sugam</i> ” published in paper After brake on 23-29 June 2014
38.		Article in newspaper	Published article “ vikas me takniki ka yogdan” published in paper After brake on 14-20 July 2014
37.		Session chair	International congress on Artificial Intelligence, held in Bangkok, from 19-21 November 2014, 7532
	2013		
36.		Member Technical Committee	International Conference on Innovative Trends in Electronics, communication and applications, 27-29 December, 2013 Puducherry, INDIA,
35.		Member Advisory Board and Keynote Speaker	2 <sup>nd</sup> International Conference in Emerging Trends in Intelligent Computing and Communication held on April 26-27, 2013 at Galgotia College of Engineering and Technology
34.		Article in Magazine	Written an article on Spam and Anti Spam Measures: A potential threat to web Based commerce, published in Vol V no4 October – December 2009, PP 4-8
33.		Member Advisory Board	9 <sup>th</sup> International Conference on “Heterogeneous Networking for Quality, Reliability, Security and Robustness” held on Jan 11-12, 2013, held at GBU, UP

32.		Expert Lecture	“ ICT and its Role in Educational Sector”, in IRCTC 2013, SRM University, on 4 <sup>th</sup> October 2013.
29.		Member Editorial board	International Journal of Software engineering and Systems
28		Member Editorial board	Journal of Computer Sciecne Engineering and Software testing 7701
	2012		
27.		Journal Reviewer	European Journal of Language, linguistics and Literature
26.		Journal Reviewer	Journal of Association of Scientist , Developers and Faculties
25.		Member Advisory Board	Recent Trends and Innovations in the Mobile Computing, held in Aug 26-27, AITM Palwal
24.		Member Advisory Board and Keynote Speaker	International conference on Soft Computing tools “ held in Nov 27, 2012 in the Advanced Institute of Technology.
	2011		
23.		Keynote Speaker	International Conference on “ latest trends in software engineering” conducted by Birla Institute of technology, Noida, on 12-13 April, 2006
	2010		
22		Member Advisory Committee	National Conference on “ Data Mining and Warehousing” , organized by Lingyas University, on April 20-12, ISBN number LV –ISBN-788-81-909732-7-4 7533
21		Session Chair	International Conference on “Optimization , Modeling and Applications” , organized by Deptt of Operation Research in Nov 29 - Dec 1, 2012 in Delhi university. 0426
20		Session Chair	IEEE international “ Advanced Computing Conference” at AKGEC, Gaziabad, on Feb 22-23, 2013. 7538
19		Session Chair	International conference on “Data Computing and Intelligent Systems” held in imperial college London, in 4-7 th July, 2012 organized by International Association of Engineers. 7640
18		Session Chair	International conference on “ data mining and Intelligent Computing” organized by IGDTUW on 5 <sup>th</sup> and 6 <sup>th</sup> September 2014. 7529
17		Session Chair	Member of advisory committee for 1 <sup>st</sup> National conference in “ Computational Intelligence Communication network and

			Smart Grid” held in HRM institute of technology on 19-20 February 2016
16		Session Chair	International Conference on Information processing, held in DTU from 12-14 August 2016
15		Expert lecture and Chief Guest	3 day , National seminar on Modern perspective of Indian Languages, held in Mahatma Gandhi International Hindi University, Wardha, from 17-219 August, 2016
14		Keynote Speaker	On “ Introduction to Swarm Intelligence”, in an International Conference held in RKGIT college, Ghaziabad.
13		Member National Advisory Board	1 <sup>st</sup> International Conference on “ Advancements in Electronics and Communication Engineering, “ held on 22-23 march 2013, organized by RD engineering College , Gaziabad.
12		Expert Lecture	“ Concept of Swarm Intelligence and Ant colony Models” at NGF college of Engineering, Ghaziabad.
	2009		
11		Member Advisory Council	Centre for Educational Growth and Research, A professional body, working for promotion of professional education
10		Article in Magazine	Published an article “ Development of an expert system shell for insurance sector” in Insurance Chronicle November 2009 PP 48-54 ( <a href="http://www.iupindia.org">www.iupindia.org</a> )
9		Keynote Speaker and Session Chair	In International Conference on “Recent Trends in Computing” , ( ICRTC2013) held in SRM university, Delhi campus, on 4-5 th October 2013
8		Invited Speaker	An International Seminar on “Language, mind and society, and it’s recent perspective” conducted by Linguistic Department, Delhi University, on 26-27 March 2001 . I delivered a lecturer on An inference based anaphora resolution algorithm <a href="#">7636</a> ,
7		Invited Speaker	A International Seminar on “ Contemporary Perspective on the Analysis of language” conducted by Linguistic Department, Delhi University. On 28-29 march 2005. I delivered lecture on “ A New Knowledge Representation Technique for Anaphora Resolution” <a href="#">7637</a>
6		Invited Speaker	A Seminar conducted by BITS, Noida on “Recent Trends in Software Engineering”.
5		Invited Speaker	A Seminar conducted by Linguistic Department, Delhi University, on Languages and Interfaces. I delivered lecture on “An Inference based Anaphora Resolution Algorithm” on 24-

			25 March 2006 7519
4		Panel Expert Member	Participated as expert for panel discussion on “ <i>Advanced Computer Architecture</i> ” for Interactive Radio Counseling on FM Channel “ <b>Gyan-Vani</b> ” on 1 <sup>st</sup> , June, 2007, and 1 <sup>st</sup> July, 2007.
3		Panel Expert Member	Given Lecturers through teleconferencing on <b>EDUSAT</b> on “ <i>Advanced Computer Architecture</i> ” on 10th January 2006 and 13th February 2006.
2			International seminar on language and interfaces, Delhi university, March 28-29 2005, 7637
1		Reviewer Taylor Francis Journal	Book Title: Cryptographic and Information Security Approaches for Images and Video Chapter Name: Biometric Recognition Techniques

### Course Designing Committee Member

1.	Expert Member for Course Designing	For Finalizing the content of Ph D course “ Security and Cryptography” and “ Emerging Trends in Computer Networks” for SOCIS, at IGNOU, Delhi 0383
2.	Expert Member for Course Designing	MCS 032: “ <i>Object Oriented Analysis and Design</i> ” for MCA, School of Computer and Information Sciences, IGNOU, New Delhi. (ISBN 81- 266- 2127-3)
3.	Expert Member for Course Designing	MCS 034: “ <i>Software Engineering</i> ” for MCA, School of Computer and Information Sciences, IGNOU, New Delhi. (ISBN 81- 266- 2168-0)
4.	Expert Member for Course Designing	MCS 034: “ <i>Software engineering</i> ” MCA, School of Computer and Information Sciences, IGNOU, New Delhi. (ISBN 81- 266- 2192-3)
5.	Expert member for Course Designing	MCS 036: Lab Course of “Object Oriented Analysis and Design” for MCA, School of Computer and Information Sciences, IGNOU, New Delhi. (ISBN 81- 266- 2138-9)

Sr No.	Laboratories Established at GBU:
1	AI and Robotic Laboratory
2	Microwave and Antenna Laboratory
3	Optical Communication Laboratory
4	Analog / Digital Communication Laboratory
5	Computer Networking laboratory
6	Microprocessor and microcontroller lab
7	Wireless technologies Laboratory
9	Digital Signal Processing laboratory

Refresher Courses / Workshop Attended		
Sr no ( des order)	Topic	Description
22.	Three Days Workshop	On “ Outcome Based Teaching Learning “Conducted by nodal centre, JSS academy Noida, on Nov 27-29, 2014.
21	Attended One Week ICT based FDP	Organized by Dr Richa Yadav 19-23 march 2018
20	Attended One Week ICT based FDP	Organized by Mr Indra Feb 15-19 2018
19	Attended One weel FDP	AnSYS,
18	One day workshop	On National academic depository, conducted at Jamia Milia Islamia on 7 <sup>th</sup> September, 2016
17.	One week Workshop through ICT	On “ communication skills through ICT “ Conducted by NITTR Chandigarh, MHRD by curriculum development centre, from 5.12. 2016 to 9.12.2016
16	One week ACE recognized short term course	On “ VLSI design through ICT from 05.10.2015 to 09.10 2015
15.	one week ICT based FDP	Entrepreneurship and Business Incubation using Blue Ocean Strategies’ for the faculty from 7 – 11 November, 2016 at IGDTUW in collaboration with NITTTR Chandigarh.
14.	one week ICT based FDP	on OPTIMIZATION USING MATLAB in collaboration with NITTTR Chandigarh from 24th October, 2016 to 28th October, 2016

13.	One day workshop on NBA	Conducted by MHRD on 24 <sup>th</sup> Feb 2015 held in India Habitat centre, Delhi
12.	One day workshop on choice based credit system framework for skill based vocational courses	Conducted by UGC on 24 <sup>th</sup> March 2015 held in Jamia Milia Islamia, Delhi.
11	Two weeks implant training	On “UNIX Operating System and Application Software” from 6.6.94 to 17.6.94 at VXL engineers ltd
10.	Three weeks Induction Training Program	On “Improving Teaching skills”, Conducted by Academic Staff College, AMU Aligarh from 6.6.97 to 21.06.97.
9.	One Week Course	On “Design & Experiments in Power Electronics” conducted by TTI Chandigarh From 5.8.96 to 16.8.96 at YMCAIE.
8.	Two Weeks QIP Summer School	On “Energy Conversion & Management” Conducted by Centre of Energy Studies, IIT Delhi from 11-22 May 1998
7.	Two Weeks QIP training Summer School	On “Instrumentation & Data Analysis” , Conducted by Department of Mechanics, IIT Delhi from 6.7.98 – 17-7-98.
6.	Three Weeks QIP short term course	On “Logic Programming and programming in PROLOG “ Conducted by Instrumentation Design and Development Centre, IIT Delhi, from 7.5.2001 - 19.05. 2001.
5.	Two Weeks Short Term Training Program	On “Emerging Issues in Finance” Conducted by Birla Institute of Management Technology, New Delhi from 2.7.2001 to 14.07.2001.
4.	One Week Course	On “IT in Management” Organized by NITIE Bombay from 21.07.2008 to 25.07.2008.
3.	One Week Induction cum Training Program	Organized by Staff Training and research Centre, IGNOU, New Delhi from 13.02.2006 – 17.02.2006
2.	One Day Workshop	On “ IPR Awareness “organized by IPR cell, NIT Kurukshetra, on 12.04.2004

1.	One Week Continuous Professional Development programme	Attended on week CPDP on “ formulation of research objectives for research grant” conducted by Engineering staff college of India, Hyderabad from 7-12 February 2016.

Workshop Conducted / Professional Events Organized				
Sr No ( des order)	Year	Designation	Event	Description
21	2018	Chairperson	One day workshop	Machine learning with python and applications of R on 17 <sup>th</sup> August 2018
20		Chairperson	Industry interaction lecture	Developing windows store applications using C# on 24.08.2018
19		Coordinator	One week FDP	Organized one week FDP on e governance and green technology entrepreneurship for technical institutions through ICT from 19.02.2018 to 23.02. 2018
18	2018	HOD	One day workshop	On 17 <sup>th</sup> March 2018, J2s and Angular technologies
17	2017		One day workshop on	Cloud Computing
16		Chairperson	Three Days Workshop	“High vacuum plasma & thin film deposition for IC Technology”, held on February 7-9, 2013 in SICT, GBU.
15		Chairperson	International Workshop	“Cloud Computing and its Application ( IWCA) “ held on 17 <sup>th</sup> February, 2013
14		Member, Organizing Committee	National Conference	Commune, CACCS, National Conference on “Communication , Computing and Signal Processing”, on 16,17 April 2011, in the SICT, GBU
13		Convener	International Conference	“Emerging Paradigm and Practice in Information & Communication Technology Management “ on 26-28 July 2012 in the SICT, GBU. The conference is organized in collaboration with University of Maryland USA and Frostberg State University, Frostberg USA 7541
12		Convener	International Conference	“Innovations and Advancements in Information and Communication Technology”, 30-31 March 2012 in the SICT, GBU, 7543
11		Chairperson	One Week FDP	“Simulation and Data Analysis” from 9 <sup>th</sup> July 2012 to 14 <sup>th</sup> July 2012, in the SICT, GBU 7544
10		Chairperson	One Week FDP	“Recent trends in Advancements in Software Engineering & Networking ” from 11 June to 17 June 2012, in the SICT, GBU
9		Chairperson	Two Days Workshop	Software Testing & Reliability “ on 2 <sup>nd</sup> – 3 <sup>rd</sup> September 2011, in the SICT, GBU



8		Member, Organizing Committee	One Day Workshop	“ Wireless Communication” on 20 <sup>th</sup> April 2011, in the SICT, GBU.
7		Chairperson	One Day Workshop	“ Impact of Information Technology on Indian Society” on 21 march 2011
6		Chairperson	One Day “ IT Summit	10 <sup>th</sup> February, 2012. In this top officials from corporate are invited, to exchange the information about industry expectations from technocrats
5		Organizer	One Day Industry Visit	Doordarshan centre, Copernicus marg, New Delhi, on 8 <sup>th</sup> February 2012, to show the live recording and telecast of TV signals to B.Tech and M.Tech students.
4		Organizer	One Day Industry Visit	ALT centre Ghaziabad ( training centre of BSNL) on 9 <sup>th</sup> September 2011, for demonstration of working of equipments related with telephony.
3.		Organizer	One Day Industry Visit	ST microelectronics, Greater Noida to show the students designing of microchips to M.Tech VLSI design students
2		Organizer	One Day Industry Visit	Cadence India Limited , to show the students designing of integrated chips to M.Tech ( VLSI) students.
1		Organizer	Short- Term Courses on word-star, C++, dbase	For stenographers in YMCA Institute of Engineering, Faridabad.

**Patent Applied:** Applied for patent with following details

“ Patent Application Number

Indian Patent Application No. 201811043506

Our Ref.: ZIP-P-1481

Title: SYSTEM AND METHOD TO DETERMINE HORTICULTURAL DISEASES

#### **UGC Project:**

I have been awarded a research grant for carrying out a research project by UGC (reference numbr F. No 42-134 / 2013 Complete Dated 12 narch 2013 ) and successfully completed in 12.10.2015 in February 2011 . The title of the project is “ **Smart Use of Web Analytics and Data Mining Techniques for Improving on line Information Retrieval.**”

#### **Research Papers Published**

Sr No	Year	Author	Topic	Publication Details
<b>International Journal</b>				
	<b>2019</b>			
83		Ela Kumar, Shevata tatwani	A Stable SVM-RFE Feature Selection Method for Gene Expression Data	International Journal of Engineering and Advanced Technology (IJEAT)' at Volume-8 Issue-6, August 2019.
82		Ela Kumar, Prerna Mehta	A review of recent advancement in Ear biometric authentication system	International Journal of Research in engineering Applications and management , ISSN 2454-9150 Vol 0.4 Issue – March 2019
81		Ela Kumar, Shevta Tatwani	A Master Slave parallel genetic algorithm for feature selection in high dimensional data sets	International Journal of recent technology and engineering
80		Ela Kumar, Prerna Mehta,	An efficient real time Ear biometric system using Deep Learning	International Journal of research in engineering and Management, ISSN 2454-9150, Vol 05, June 2019
79		Ela Kumar, Priyanka	Intrusion detection in meta search engine through heuristics honey pot	International journal of scientific and engineering research
78	<b>2018</b>	Ela Kumar et al	Review of automatic sarcasm detection	IEEE explore , 2 <sup>nd</sup> international conference on telecommunication and Networks ( TEL – NET), 10-11 August 2017 INSPEC Accession No 17721048
77	<b>2017</b>	Ela Kumar et al	Raspberry PI based Smart Doorbell System with Advanced Encryption scheme	International Journal of advanced Computational Engineering and Networking ( IJACEN) vol 5 Issue 9,
76	<b>2015</b>	Ela Kumar, Mona, Monika	Implementation of Web crawler for mobile Search Using Mobile Agent	International Journal of engineering research and general science, Volume 3, Issue3, May-June 2015, ISSN 2091-2730,
75	<b>2015</b>	Ela Kumar, Mona, Monika	Optimization of Search results with deduplication of Web pages in a mobile Web crawler,	International Journal of engineering research and general science, Volume 3, Issue3, May-June 2015, ISSN 2091-2730,

74	2015	Ela Kumar, Neelima	IndiSent Analysis in Twitter using Machine Learning Methods	International Journal of Innovative Research in Computer and Communication Engineering Vol3, Issue 7, July 2015, ISSN ( online) 2320-9801, ISSN print 2320-9798
73	2014	Ela Kumar Jyoti Gautam	Semantic Web Improved with the weighted IDF Feature	International Journal of Advanced Computer Science and applications, Vol 6, No 2, 2015, pp 164 - 173. ISBN: 978-988-19252-5-1 ISSN: 2078-0958 ( print), ISSN: 2078- 0966 ( online)
72		Ela Kumar Nripendra Narayan Das	Automatic extraction of data from deep web page	International Journal of Computer and Mathematical Sciences,, ISSN 2347- 8527, Vol 3, Issue 1, April 2014 , pp 86-91. 7477
71		Ela Kumar, Jyoti Gautam	Semantic web improves with fuzziness added in weighted scores	Transactions on machine learning and Artificial Intelligence, ISSN 2054- 7390, Vol 2, Issue 5, Oct 2014
70		Ela Kumar , Nripendra Narayan Das	Retrieval of Data from hidden Web using web agent	Journal of Computer Technology & Applications, ISSN 2347- 7229, Vol 5, issue 2, pp 26-34 , Aug 2014 7476  <b>Impact factor 4.131</b>
69		Ela Kumar, Nripendra Narayan das	Relevant Information retrieval from Deep web Page	International Journal in Research and management, Science and technology, ( E-ISSN 2321-3264, Vol 2, No 3, December 2014, pp 30-34. 7480
68		Ela Kumar, Nripendra Narayan das	Identification of query forms for retrieving the information from Deep Web	Transactions on machine learning and Artificial Intelligence, Vol 2, Issue 6, ISSN 2054-7390, PP 53-61. Sept 2014.
67		Ela Kumar, Jyoti Gautam	“ Framework for a Tag based Fuzzy Research Papers Sharing and recommendation system,	International Journal of Computer and Mathematical Sciences, ISSN 2347- 8527, Vol 3, Issue 7, September, 2014 pp 1-12.
66		Ela Kumar , Sandhya Tarar	Fingerprint Mosaicking Algorithm to improve performance of fingerprint matching system	Universal journal of computer science and information technology, USA, Vol 2(3) : 142-157, Feb 2014

65		Ela Kumar, Jyoti Gautam	An integrated and improved approach to terms weighing in Text classification	International journal of computer science issues, ISSN ( print) 1694-0784, ISSN(online) 1694-0814, VOL 10, Issue1, January 2013, pp 310-- 314
64		Ela Kumar, Mukesh Garg	Relative performance analysis of reactive ( on demand driven) routing Protocols	International journal of Advanced Research and computer Engineering and Technology, Vol 3, Issue12, December 2014 ISSN No 2278-1323, pp 4167- 4172
63	<b>2013</b>	Ela Kumar , Nripendra Narayan Das	Approaches of Page Ranking Algorithms”,	International Journal of Computer Application, vol 82 Number 2, 2013, ISBN : 973-93-80878-62-4 , DOI: 10.5120/14090-2094(Online), Impact Factor 0.821. November 2
62		Kumar Ela, Tarar Sandhya	Image quality enhancement using high density discrete wavelet transform	IEEE transactions on image processing, ( Communicated and accepted).
61		Kumar Ela, Sandhya Tarar	Fingerprint Image enhancement : Iterative fast Fourier transform algorithm and performance evaluation	International journal of hybrid information technology, SERSC Vol 6, Issue 4, July 2013.
60		Ela Kumar Mukesh Kumar Garg,	Routing Issues for Trust Based Framework in Mobile Ad Hoc Networks	IJAR CET International Journal of Advanced Research in Computer Engineering & Technology, Volume 2, Issue 2, February-2013, pp 434-35, ISSN: 2278-1323 Impact factor 3.696
59		Ela Kumar, Mukesh Kumar Garg,	The performance evaluation of AODV and DSR ( on-Demand- Driven) routing protocols using Qualnet 5.0 Simulator	IJCSN International Journal of Computer Science and Network, Vol2, Issue 2, April 2013, ISSN online 2277-5420 Impact factor 1.5
58		Kumar Ela, Arun Solanki	An on line Fuzzy Expert system using Rule Advancement Strategy for specific domain	Cyber times international journal of technology and management Vol 6, Issue1, October 2012 PP 135-142
57		Kumar Ela , Arun Solanki	Design and development of fuzzy expert system using rule advancement strategy	International journal of Intelligent System Design and Computing, Iderscience Publication, ( Accepted 2014).
56		Kumar Ela ,	Design and	Journal of computer technology and

		Solanki Arun	Development of web based fuzzy expert system for disease diagnosis in horticulture sector, A case study of flower rose	applications, Vol 4, issue 1, pp 5-15, 2013. ISSN No 2229-6964
55		Kumar Ela , Mukesh Kumar Garg, Dahramveer	The Performance Evaluation of Bellman-Ford and ZRP Routing Protocols in MANETs using QualNet 5.0 Simulator”,	International Journal of Computer Science and Technology, IJCST, Vol.4, Issue 2, April-June 2013, ISSN: 0976-8491 / ISSN: 2229-4333 (Print). Imapct factor 5.210
54		Kumar Ela, Bhaskar Sinha	Semantic web query on e-governance data and designing of ontology for agriculture domain	Published in international journal of web and semantic technology, ISSN 0975-9026, Oct 2013 vol 4 , no 4.
53		Kumar Ela , Lokesh Kumar Sharma	An algorithm to calculate compare and categorize the semantic distance among referents for resolving the indirect anaphora”	Published in International Journal of Advanced research ( www.ijar.org.uk) vol 2, No 1, March – April 2013
52		Kumar Ela, Lokesh Sharma	Indirect Anaphora Resolution using Parallel queues:	International Journal of Advanced Research in Computer Science, ISSN No 0976-5697, vol 4 No 2, Jan –Feb 2013
51	<b>2012</b>	Kumar Ela , Solanki Arun	A novel framework for knowledge management platform based fuzzy expert system	Review of Business, Technology and research vol 5, no1, pp 564-574, 2012
50		Kumar Ela, Sandhya Tarar	Modeling and Simulation of autonomous biometric management system using fuzzy set theory	International journal of current trends in information technology, Vol 2, issue 1, April 2012, pp 39-47.
49		Kumar Ela, Sandhya Tarar	A fingerprint watermarking algorithm to enhance the privacy of fingerprint data	WSEAS transactions on information science and applications, E- ISSN-2224- 3402, issue 8 vol 9, Aug 2012 pp 231-239

48		Kumar Ela, Laxmi Ahuja	A Study of Anti Spamming Techniques and Method to remove them	Published in the International journal of Science and Computing, USA, Vol 1, pp 13-18, March 2012 ISSN no 0976-5697
47		Ela Kumar Ashok Kumar	Extended curl crawler, A focused and path oriented framework for crawling the web using this	International journal of computing trends and technology, vol3, issue 3, 2012, pp342-350, ISSN No 2231-2803
46		Kumar Ela Sandhya Tarar	Design paradigm and Risk Assessment of hybrid re engineering with an approach for development of Re-engineering Metrics	International Journal of Software Engineering and Application, Vol 3 January 2012, pp 207-210
45	<b>2011</b>	Kumar Ela, Jyoti Pruthi	Anti Trust Rank Algorithm, Fighting web spam	International Journal of Computer Science, Volume 8, Issue 1, January 2011 pp 202-208
44		Laxmi Ahuja, Kumar Ela	Expert search engine – A new approach for web environment	International Journal of computer science and security ( IJCSS) volume 4 issue 1 pp 130-135
43		Kumar Ela , Arun Solanki	A web enabled Fuzzy Expert System Shell for Flower Rose”	Journal of Computer Technology and Applications, Vol 2, Issue 2, Nov 2011 , pp 12-21 ISSN 2229-6964
42		Kumar Ela, Jyoti Pruthi	Multilevel Index algorithm in search engine	Published in Journal of Emerging trends in Computing and Information Sciences, Vol 2, special issue Dec 2010, pp 271-275
41		Ela kumar, Ashok Kumar	Curl Crawler, A framework of curl crawler and cached database for crawling the web with thumb	International journal Computer Science and Information Technology Vol 2(4) 2011, pp 1700-1705, ISSN No 0975 - 9646
40		Ela Kumar, Ravinder Nath Rajotia	Requirements for Alternate Routes in MANET	International journal of Research in IT and Management Volume 1, issue 4, August 2011 ISSN 2231-4334
39		Ela Kumar, Ravinder Nath Rajotia	Utilizing lower Layer service for routing Information in MANET	International journal of Research in IT and Management Volume 1, issue 2, June 2011 ISSN 2231-4334
38		Ela Kumar, Ravinder Nath Rajotia	MANET performance enhancing with packet buffering	International Journal of advancement in computing technology Vol 3, Number 2, March 2011

37		Kumar Ela , Laxmi Ahuja	Identification of factors affecting Spamming- A survey based approach	International journal of Computer Applications , special volume ISBN 0975-8887 pp 10-14
36	<b>2010</b>	Kumar Ela, Shruti Kohli	Review Paper Article on “ Critical Analysis of Anti Spam Techniques	International Journal of Advanced Research in Computer Science, Vol 1. No3, Sept- Oct 2010 ISBN Number 0976-7697 pp1-4
35		Kumar Ela, Laxmi Ahuja	Multilevel index algorithm in search engine	Journal of emerging trends in computing and information sciences vol 2, ISSN 2079-8407
34		Kumar Ela, Laxmi Ahuja	Critical Analysis of Anti Spam techniques	International journal of Advanced Research in Computer Science vol 1, No3, Sept – October 2010 ISSN No 0976-5697
33		Kumar Ela, Shailee Chaudhary	Effectiveness analysis of web page ranking algorithms	Published in International Journal of Advanced Research in Computer engineering, pp 432 – 432, Vol 1, January- June 2010
32		Kumar Arun Solanki	A combined Mining Approach and it's Application in TAX Administration	International Journal of Engineering and Technology Vol 2(2), 2010, 38-44 ISSN no 0975-4024
31		Kumar Ela, Arun Solanki	Development of expert system shell for Taxation Purpose	“International Journal of Computing, USA” Feb., 2010.
30		Kumar Ela , Yashwant Singh	Implementation of crawling and locating services in e- govt domain	International Journal of electronics engineering, Vol2(1), 2010, pp 177-181 7506
29		Kumar Ela, Jyoti Pruthi,	Spam and Anti Spam Measures, A look at its Impacts	International Journal of Computer Engineering & Information Technology, Vol 14, No 19, special Edition PP 54-60
28	<b>2009</b>	Kumar Ela, Kohli Shruti	Certainty factor based analysis for measuring user satisfaction with search engine	Published in “International Journal of Information Processing”, Issue-3, Vol.- 3, pp 39-44 year 2009 0380
27		Kumar Ela, Shruti Kohli	Spam and Anti-spam Techniques- A look at Impacts	Published in “International Journal of Computer Engineering and Information Technology”, Dec., 2009, pp23-29

26		Kumar Ela , Ravindernath Nath Rajotia	Performance enhancement of MANET by packet buffering	Published in the International Journal of Advancements in Computing Technology, pp 205-210, vol 2, Dec 2009
25		Kumar Ela, Arun Solanki	“Designing of Expert Search Engine for Web Environment	published in “International Journal of Information Processing, Malaysia”. Jan – feb 2009, pp 101-107
24	<b>2008</b>	Kumar Ela, Kohli Shruti	Fuzzy Based User Dependency Analysis of a Search Session with Search Engine	Published in “International Journal of Information Science and Technology (JIST)”, April-May 2008.7511
23		Kumar Ela, Kohli Shruti	Certainty Factor Based Analysis for Measuring Users Satisfaction with Search Engine”,	Published in “International Journal of Information Processing” ,July-Aug 2008.
22	<b>2007</b>	Kumar Ela, Kohli Shruti	A Strategic Analysis of Search Engine Advertising in Web based-commerce	International Journal of Internet Banking and (JIBC)”, August, 2007, vol. 12, no.2. 0378
21	<b>2005</b>	Kumar Ela, Singh Jasjit	“Goal Driven Requirement Engineering Approach for designing of data ware-house	International journal of Information Processing’, Feb. – Mar., 2005.
20		Kumar Ela, Kohli Shruti	A use case contextual model for Banking System”,	<i>WISCT 2003, Mexico</i>
19	<b>2011</b>	Kumar Ela, Kohli Shruti	Development of a framework to measure user dependency on search engine	Journal of Information science and technology 8(1) 7508
18	<b>2009</b>	Kumar Ela, Kohli Shruti	Fuzzy based user dependency analysis of a search session with search engine	Journal of Information science and technology, <a href="http://www.jist.info">www.jist.info</a> JIST 6(1)
17	<b>2008</b>	Kumar Ela, Kohli Shruti	Exploring Vulnerabilities and Threats Arising with Popularity of Search Engine as a Major Internet Tool	Journal of Information and Technology, ICFAI”, 2008
16		Kumar Ela,	Designing the	SOCH Journal of Science and



		Yashwant Singh	framework for Research Tools for the Analysis of Web Crawling of Data	Technology”, Vol. 4, pp 14-18, Dec., 2008.
15	2007	Kumar Ela, Kohli Shruti	Application of Reverse Engineering Approach for developing Search Engine friendly Web pages	ICFAI Journal of Information Technology”, Dec., 2007
14	2004	Kumar ela , J p gupta	Pronominal Anaphora Resolution Algorithm for English Text	Published in Journal of Institution of Engineers, IEI ( Journal CP), pp 48-52
	2003	Kumar Ela, Kaushik Saroj	Pronominal Referent Interpretation system for English Text	Published in “IETE Journal of research” Vol 49, No-1, PP (27-33), Jan/Feb. 2003
13		Kumar Ela, Gupta J.R.P	Pronominal Anaphora Resolution Algorithm for English text	Journal of Institution of Engineers”, Nov., 2003
12	2001	Kumar Ela, Kaushik Saroj	Knowledge representation for Discourse Analysis	“Journal of Language analysis”, May 2001
<b>International Conference</b>				
	2019			
9		Kumar Ela, Shevata tatwani	Effect of Subset Size on the stability of feature selection for gene expression of data	International Conference of Systems Biology and Bioengineering, organized by International Association of Engineers, ISBN 978-988-14048-6-2, ISSN 2078-0958 July 3-5, 2019
6	2017	Kumar Ela, Aashima Singh	Internet service provider comparison using modified K means clustering and Naïve naïve bayes classifier	International conference on advances in Mathematics & engineering sciences, April 27-29
5	2014	Kumar Ela, Jyoti Gautam	Semantic web improved with IDF features of TFIDF algorithm	Proceedings of the International Multi conference of Engineers and Computer scientist 2014, VO11, March 12-14 HongKong 7486
4	2013	Kumar Ela , Solanki Arun	A novel technique for rule advancement in fuzzy expert system	Proceedings of 4 <sup>th</sup> international conference confluence 2013. The next generation

			using Einestein sum	information technology summit, indexed in IEEE digital library, pp 62-68, 2013 7495
3.	<b>2012</b>	Nripendra Narayan Das, Ela Kumar	Hidden Web Query Technique for Extracting the Data From Deep Web Data Base	Proceedings of the World Congress on Engineering and Computer Science 2012 Vol I WCECS 2012, October 24-26, 2012, San Francisco, USA 7479
2		Nripendra Narayan Das, Ela Kumar	Data extraction from hidden web pages using web agent	International conference on Optimization Modeling and Application , University of Delhi, November 29 – December 1 2012. PP53-57
1		Kumar Ela , Jyoti Gautam	An improved framework for tag based academic Information sharing and recommender system	Proceedings of the World Congress on Engineering 2012, VolIII. July 4-6, 2012, London, UK
58		Ela Kumar, Vimlesh Kumar	Brain Informatics based on Denotational mathematics	Published in International Conference on Innovations and advancements in Information and Communication technology, organized by SICT, Gautam Buddha University, pp78-84, March 2012, ISBN 978-93-81583-34-0
59		Ela Kumar, Arun Solanki	Design and Development of an Inference Engine for knowledge based fuzzy expert system for horticulture sector	International Conference on Innovations and advancements in Information and Communication technology, organized by SICT, Gautam Buddha University, pp226-232 , March 2012, ISBN 978-93-81583-34-0
60		Ela Kumar, Sameekha	Topic Extraction: Hybrid Approach on fast moving consumer goods product reviews	International Conference on Innovations and advancements in Information and Communication technology, organized by SICT, Gautam Buddha University, pp112-119 , March 2012, ISBN 978-93-81583-34-0
61		Ela Kumar, Tarar Sandhya	Design and Implementation of fingerprint Image enhancement Algorithm by using iterative fast fourier transform	International Conference on Innovations and advancements in Information and Communication technology, organized by SICT, Gautam Buddha University, pp104 - 111 , March 2012, ISBN 978-93-81583-34-0
62		Ela Kumar,	Clust- PVQM: A new	International conference on Innovations

		Sushil Kumar	framework for privacy preserving data clustering	and advancements in Information and Communication technology, ISBN 978-93-81583-34-0, pp 218-223 7489
63		Ela Kumar, Ratish Kumar, Kuldeep Kumar,	Study of Cognitive Informatics with layered reference and functional model of brain	International Conference on Innovations and advancements in Information and Communication technology, organized by SICT, Gautam Buddha University, pp104 - 111 , March 2012, ISBN 978-93-81583-34-0 pp 174-180 7501
64	<b>2011</b>	Kumar Ela, Kohli Shruti	Detection of Link Spam, Development of Spamizer”,	Published in the international Conference Proceedings of World Engineering Congress organized by International Association of Engineers, Oct 19-24 October 2011, held in University of California, Berkely, USA
		Kumar Ela, Kohli Shruti	Evolution of user dependency model to predict future Usability of search engine	978-1-4673-0126-8/11/IEEE pp 285-290 7515
65	<b>2010</b>	Kumar Ela, Arun Solanki	Online query submission for deep web in specific domain	“International Conference on Computer Engineering and Technology”, Chengdu, Sichuan, China, in 2010 7494
66	<b>2009</b>	Kumar Ela, Jyoti Pruthi	Spam and Anti-Spam Measures: A look at Impacts	International Conference on Recent Trends in Soft Computing and Information Technology”, Vol 3, pp 306-310, Dec 2009
67	<b>2008</b>	Kumar Ela, Kohli Shruti	Mathematical Modelling of SRIRE Approach to Develop Search Engine Friendly Websites	Third International Conference on Information Systems Technology and Management”. Paper is indexed in Springers lecture notes series, published by Springer Publications 2008, pp 341-342 7512
68		Kumar Ela, Kohli Shruti	Development of User acceptability Model of Search Engine	ISDIS 2008, International Conference on Global Decision Making”, IMT, Ghaziabad. 0374
69		Kumar Ela, Kohli Shruti	Development of Intelligent User Behavior Based	Proceedings of “Innovations in Technology Conference, IEEE 2008”, Dubai. Indexed in IEEE Explore

			Adaptive Rule Based System	978-1-4244-3397-1/08/7514 0381
70		Kumar Ela, Shruti Kohli	Quantitative Dependency Analysis of User, Search Engine and Advertiser Behavior	WWW/Internet 2007, Conference by International Association for the Development of Information Society (IADIS)", Portugal. <a href="http://www.internet-conf.org">www.internet-conf.org</a> ISBN 978-972-8924-44-7 PP 324-330 7516
71		Kumar Ela, Tyagi Sunita	Bluetooth technology: an analysis of its role in Library and Information sciences	International Conference on Information Processing". Singapore, May, 2008.
72		Kumar Ela, Kohli Shruti	Certainty Factor Based Analysis for Measuring Users Satisfaction with Search Engine	International Conference on Information processing (ICIP'2008)", Bangalore. 0382
73	2007	Kumar Ela, Kohli Shruti	Evolution of Interdependency Model based on Behavioral Analysis of User, Search Engine and Advertiser in Online Advertising	Proceedings of "Innovations in Technology Conference, IEEE 2007", Dubai. Indexed in IEEE Explore 978-1-4244-1/08/IEEE 2008 7515
	2005	Kumar Ela, Jasjit,	Design of a use case quote manager	7 <sup>th</sup> IEEE conference on e-commerce technology 2005, 7517
	2004	Kumar Ela, Jasjit,	Development of a A scenario based use case contextual model for a bankig application from a G D I diagramm	WISCIT, proceedings of a winter international symposium of information and communication technology, page 302-305 7633
<b>National Conference</b>				
	2013	Kumar Ela, Sandhya tarar,	Qualtiy improvement of FIS by using fingerprint watermarking	National conference on cloud computing driving New driving initiatives for e-governance and education, 2013 7524
	2011	Kumar Ela , Arun Solanki	Critical study of Expert System Development Paradigms	Commune conference on Advancements in communication, computing and signal processing page 69-73 7491

74	<b>2009</b>	Kumar Ela, Ravinder Nath Rajotia	Network aware routing protocol for MANET	IEEE explore conference on Advanced Computing”, Delhi, Mar 6 – 7, 2009.
75		Kumar Ela	Development of an Expert system Shell for Insurance Sector	Insurance Chronicle Magazine”, Nov2009 issue, ICFAI University, Hyderabad. 7472
76		Kumar Ela, Tyagi Sunita	Recent trends in Library Management System”,	presented in the “National Conference on Information technology”, Feb 3-5, 2009, New Delhi.
77	<b>2008</b>	Kumar Ela, Kohli Shruti	Application of Reverse Engineering Approach for developing Search Engine friendly e- commerce portals	Proceedings of “International Conference on Information Science, Technology and Management (CISTM’08)”, IIT Delhi, <a href="http://www.cistm.org">www.cistm.org</a> . 2008
78		Kumar Ela, Kohli Shruti	Development of a Fuzzy Based User Satisfaction model of a Search Session with Search Engine	second ‘National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (mateit-2008)’, Delhi University, sponsored by UGC, IEEE Delhi chapter.
79		Kumar Ela, Kohli Shruti	Exploring Vulnerabilities of Threat to e-Commerce with Popularity of Search engine	Proceedings of the 2nd ‘National Conference; INDIACom - 2008 Computing for Nation Development’, Feb., 8 – 9, 2008.
		2006	Conference paper	National seminar on Language and interfaces “ Inference based anaphora resolution algorithm March 25-26 2006, 7636
80	<b>2007</b>	Kumar Ela, Kohli Shruti	Diversification of Online Business through effective use of Search Engine	5th Annual Conference on Information Science, Technology and Management (CISTM ’07)”, Hyderabad 16-18, 2007 .www.cistm.org
81		Kumar Ela, Kohli Shruti	Exploring suitability of search engines in evolution of Indian Online Advertising Industry’	Proceeding of Growth in India in 21st Century, BIT Kolkata.

82		Kumar Ela, Kohli Shruti	Technological Revolution in Advertising- Emergence of Online Advertising with Search Engines	Ad-Impact Conference -07', BIT Noida.
83	1999	Kumar Ela	Design of a thematic bidirectional Parser	International Conference on Cognitive Systems", Delhi, 1999.
84		Kumar Ela, Sharma R.C	Empirical studies on Discourse analysis"	International Conference on Computer Systems" 1999
85	1998	Kumar Ela, Kaushik Saroj, Moinuddin	Analysis of reference in Text and Discourse	International Conference on Cognitive systems", Delhi, 1998
86		Kumar Ela, Kaushik Saroj, Moinuddin	A truely interactive variable initiative Natural language interface	International Conference on Cognitive Systems ", Delhi, 1998

**(E) Books- and Course material, Penned and Published**

Sr No.	Books	Author	Publication Details
1.	Artificial Intelligence	Ela Kumar	IK international", New Delhi. 1 <sup>st</sup> edition in 2009. pp 475. (ISBN 978 -81-906566-6-5). 7566
2.	Natural Language Processing	Ela Kumar	IK international", New Delhi. 1 <sup>st</sup> edition in 2011. Pp 202 (ISBN -93-80578-77-4) 7565
3.	Multiple Choice Questions in Computer Science	Ela Kumar	IK international", New Delhi. 1 <sup>st</sup> edition in 2009. Pp 440 (ISBN -81-906757-7-2). 7567
4.	Information systems	Ela Kumar and Sweta verma	Galgotia Publications", New Delhi. (ISBN No. 81- 7515-580-9)., 7639
5.	Knowledge Engineering	Ela Kumar	Under Publication from Ik International Publication. Already in Print , ( ISBN 978-93-85909-92-4) 7617

6	Study and Analysis of Delay Factors of Delhi Metro Using Data Sciences and Social Media: Automatic Delay Prediction System for Delhi Metro	Ela Kumar,	IGI Global Publication, In S kohli, E kumar, J Easton & C Roberts, Innovative applications of Big data in the Railway industry ( pp 209-223) Hershey, PA IGI Global, metro doi: 10.4018.978-1-5225-3176-0.ch 009
Content Editor for IGNOU Course material			
6.	Content Editor	Ela Kumar	Course OCSI-004 “ ICT AND ITS APPLICATIONS” of “Certificate Program in ICT Enabled Professional Skills” of IGNOU ( under publication) 7561, 7562
Author for IGNOU Course material for MCA program			
7.	Elements of parallel computing and Architecture, Block 1, of course Parallel Computing, MCA 5 <sup>th</sup> Semester	Ela Kumar and others	(ISBN- 978-81-266- 2813-1) for MCA Vth semester 7568, 7569 Publisher: School of Computer and Information Science, IGNOU, Maidan Garhi, New Delhi
8.	Advanced topics, Block 3, of course Parallel Computing, MCA 5 <sup>th</sup> Semester	Ela Kumar and others	(ISBN- 978- 81-266 – 2815-5) for MCA Vth semester 7570, 7571
9.	Parallel Algorithms & Parallel Programming	Ela Kumar and others	(ISBN- 978-81-266-2814- 8) for MCA Vth semester 7572, 7573
10.	Parallel Computing	Ela Kumar and others	(ISBN – 978-81-266-281-5), for MCA Vth semester

11.	OO Analysis and design lab manual	Ela Kumar and others	(ISBN – 81-266-2138-9) for MCA 3 <sup>rd</sup> semester 7563, 7564
	Object Oriented Modeling and UML	Ela Kumar and others	(ISBN – 81-266-2127-3) for MCA 3 <sup>rd</sup> semester 7574, 7575
	MCSL-036 Object oriented analysis and design		(ISBN – 81-266-2138-9) for MCA 3 <sup>rd</sup> semester 38 7563, 7564
12.	Overview of Software Engineering	Ela Kumar and others	(ISBN – 81-266-2191-5) for MCA Vth semester 7580, 7581, School of Computer and Information Science, IGNOU, Maidan Garhi, New Delhi
13	MCS 034 Software Project management Co-editor	Ela Kumar and others	(ISBN – 81-266-2168- 0) for MCA Vth semester 7578, 7579
	Advanced Software Engineering	Ela Kumar and others	(ISBN – 81-266-2192- 3) for MCA Vth semester 7576, 7577
	Written book chapter on Storage in Windows mobile	Ela Kumar and others	Available on line on commonwealth of open learning  License number CC-BY-SA, Picture no 0363
	Book chapter IGI UK publisher		<b>Innovative Applications of Big Data in the Railway Industry</b>  <a href="#">Shruti Kohli</a> (University of Birmingham, UK), <a href="#">A.V. Senthil Kumar</a> (Hindusthan College of Arts and Science, India), <a href="#">John M. Easton</a> (University of Birmingham, UK) and Clive Roberts (University of Birmingham, UK)  Release Date: November, 2017 Copyright: © 2018  Pages: 395 ISBN13: 9781522531760 ISBN10: 1522531769 EISBN13: 9781522531777 DOI: 10.4018/978-1-5225-3176-
<b>AICTE Course material</b>			
13.	Advanced Computer Architecture	Principle Coordinator	Under CNANCE scheme of <b>AICTE</b> .
14.	Fundamentals	Principle	Under CNANCE scheme of <b>AICTE</b> .



	of Data Communication & Networking	Coordinator	
<b>Solution of Technical Books</b>			
15.			Provided solution of all unsolved questions of the book on "Computer Organization" written by V. Hamacher, for a US based Company 'Cramster Inc'.

**Supervision of Research / M.Tech / M/Phil Candidates**

Sr No.	Degree	Name of Students	Title of Thesis	Year Completed	Co-Supervisor, if any
P.1	Ph.D.	Mr Ravindenath Rajotia	Designing of always an alternate route protocol in the area of mobile adhoc networks	Awarded March 2012	Nil
P2	Ph.D.	Ms Shruti Kohli	Designing a framework for intelligent information retrieval using search Engine optimization	Awarded May 2011	Prof B P Joshi
P3.	Ph.D.	Mr Arun Solanki	Design and Development of an Expert system Shell for Horticulture Sector"	Awarded 2014	Nil
P4.	Ph.D.	Ms. Sandhya Tarar	Analysis and Design of a system to improve the performance of fingerprint identification system	Awarded 2014	Nil
P5.	Ph.D.	Mr Sandeep Rana	Performance evaluation of Intelligent algorithms for data mining	Awarded 30.09.2014	Prof Sanjay Jasola
P6.	Ph.D.	Ms Jyoti Gautam	Development of an optimized website ranking algorithm for semantic web	Awarded 2015	Nil
P7	Ph.D.	Mr Nripendra das	Development of hybrid query processing algorithm to extract web pages from Deep web	Awarded 2015 12.09.2105	
P8	Ph.D.	Ms Shevta Tatwani	Multidimensional array reduction	Pursuing, Registration 2015	Nil
P9	Ph.D.	Ms Smita	Semantic web analysis	Pursuing,	Nil

		Suman		Registration 2017	
P10	Ph.D.	Ms Tanu Gupta	Development of NLP analytical package	Pursuing, Registration 2017	Nil
P11	Ph.D.	Ms Alina	Image Analysis	Pursuing, Registration 2018	Dr Ravinder M
P12.	Ph.D.	Ms Anu Yadav	Web Analytic	Pursuing, Registration 2018	Nil
P13.	Ph.D.	Ms Vaishali Gupta	Big data And Deep Learning	Pursuing, Registration 2019	Nil
<b>M.Tech</b>					
2019					
M43		Prerna mehta	Real Time hearing Recognition system using deep learning	Awarded	Nil
M42		Juli Kumari	Disease Diagnosis, Analysis and Prediction through machine Learning Approach	Awarded	Nil
M41		Himani garg	Isolation and Segmentation based Efficient examination system	Awarded	Nil
M40		Mamta	A real Time Twitter segment Analysis and Visualization system	Awarded	Nil
2018					
M39		Priyanka	Honey pot intrusion detection in meta search engine through heuristics	Awarded	Nil
M38		Suprita Das	Evaluation of chat bot: architecture , design, Algorithm, challenges, and implementation of application in educational institutes	Awarded	Nil
2017					
M37		Garima Khanna	Design of Vahan Praharee: A vevhicle Surveillance and Monitoring System	Awarded 2017	Nil
M36		Kashish Sharma	Enhanced user interface for patient data flow management	Awarded 2017	
M35		Rashmi	Transportation management system	Awarded 2017	
2016					
M34		Ms Ashma Singh	Internet service provider comparison using sentiment analysis	Awarded 2016	
2015					

M33		Mona	Implementation of Web crawler for mobile search using mobile agent	Awarded 2015	
M32		Palak Jain	Meta Search engine	Awarded 2015	
M31		Anshul Goyal	Crawler development	Awarded 2015	
M30		Nainika Kaushik	Information retrieval from search engine using particle swarm optimization	Awarded 2015	
M29		Sandeepika Sharma	Development of OCR System for Devnagri script	Awarded 2015	
M28		Neelima	Indisent analysis in twitter using Naïve Base Algorithm.	Awarded 2015	
M27		Monika	Optimization of search results with de duplication of web pages in a mobile web crawler Implementation of Mobile Web crawler for optimized results	Awarded 2015	
	2014				
M26		Kirandeep Kaur Bhullar	Meta heuristics based approach for regression testing	Awarded 2014	Nil 7449
M25		Nidhi Porwal	Analysis and design of software quality model using soft computing techniques	Awarded 2014	Nil 0369
	2013				
M24		Lokesh Kumar Sharma	Designing Indirect Anaphora Resolution System using parallel queue architecture	Awarded 2013	
M23		Bhaskar Sinha	Semantic Web tool fro agriculture domain and use of indirection with possible localization	Awarded 2013	
M22		Umang Kant	Designing metacognitive decision unit for robot	Awarded 2013	
	2012				
M21		Ratish Kumar	Data Brain modeling based on the brain informatiics	Awarded 2012	
M20		Piyush Chaudhary	Performance analysis of various protocols on Mobile Adhoc networks	Awarded 2012	
M19		Vinay Pathak	Fault severity of multirelease software reliability growth model	Awarded 2012	
M18		Ravi Kant Arya	Performance analysis of various protocols on Mobile Adhoc networks	Awarded 2012	
M17		Vikarsh Maurya	Performance analysis of various protocols on Mobile Adhoc networks	Awarded 2012	

M16		Sushil Kumar	A k anonymity based Clustering framework model for Data Privacy preserving	Awarded 2012	
	2011				
M15		Sunil Kumar	Data Brain Modeling based on brain 22informatics	Awarded 2011	
M14		Swati Singh	Component testing in a Mutiagent architecture	Awarded 2011	
M13		Arti Tiwari	Design of an interface complexity metrics for Software components	Awarded 2011	
M12		Meena Gupta	Performance testing for web based applications	Awarded 2011	
M11		Deepak Kumar	Natural language processing	Awarded 2011	
M10		Satya Prakash	Analysis and Development of Information testing tool to improve quality of CB based software	Awarded 2011	
M9		Kumar Johnson	Modeling of cloud based security testing of web applications and software applications	Awarded 2011	
M8		Rohit Kumar	Eucalyptus : Architecture and deployment for elastic Cloud computing	Awarded 2011	
	2010				
M7		Vimlesh Kumar	Development of human Information Processing system	Awarded 2010	
	2007				
M6		Shailee Chaudhary	Effectiveness analysis of web page Ranking algorithms	Awarded 2007	
	2006				
M5		Vishnu Tiwari	Critical Analysis of Different algorithms used for search engine optimization	Awarded 2006	
	2005				
M4.		Sushma Singh	Dynamic Performance analyzing multiprocessor system based on shared memory architecture	Awarded 2005	
M3		Hemant Kumar	A framework for business process oriented knowledge infrastructure development	Awarded 2005	
	2004				
M2		Supriya Pathak	Parallel Cooperating Web Crawler	Awarded 2004	

	2003				
M1		Kanchan Sharma	Structured Data Driver enhancement in TPF environment	Awarded 2003	
<b>M.Phil</b>					
X1.		Urvesh Chaudhary	Software aging & Software rejuvenation	Awarded 2003	
X2.	M.Phil	Poonam Jatwani	Critical Analysis on search engine optimization	Awarded 2004	
X3.	M.Phil	Sandeep Kumar	A critical Study of advanced Mobile networks Registration number 06-DE-7052	Awarded 2003	
X4.	M.Phil	Ashok Kumar	A multiagent framework for context driven search on internet	Awarded 2003	
X5.	M.Phil	Amita Joon	A framework for designing of security systems based on cryptography	Awarded 2004	
X6.	M.Phil	Rashmi Dahiya	Taxonomy of current political web unethical practices and its remedies	Awarded 2004	
X7.	M.Phil	Taramani	Taxonomy of large-scale hyper textual web search engine	Awarded 2004	
X8.	M.Phil	Anupriya jain	Study of how external link building and internal link building strategies help in search engine optimization	Awarded 2005	
X9.	M.Phil	Sonia Duggal	Comparative study of authorization and authentication techniques on web security	Awarded 2005	
X10.	M.Phil	Shefali Saxena	Study of Hilltop web page ranking algorithm	Awarded 2006	
X11.	M.Phil	Rashmi Agarwal	A framework for designing of method lies to control unethical practices in web designing	Awarded 2007	
X12.	M.Phil	Mriduala Dhingra	Comparative Analysis of different page ranking algorithms	Awarded 2006	
X13.	M.Phil	Seema Sharma	A critical Analysis of different anti spamming techniques used in search engine optimization	Awarded 2007	
X14.	M.Phil	Chitra Jalote	A framework for designing of intelligent agents for information retrieval	Awarded 2006	

X15.		Chitra mehra	Comparison of testing and verification techniques	Awarded 2008	
X16.	M.Phil	Poonam Godara	Role of information Communication Technology	Awarded 2007	
X17.	M.Phil	Parul Goel	Empirical Study of quality of object oriented software	Awarded 2002	
X18.	M.Phil	Praveen Kumar	Development of testing tools for fireworks	Awarded 2002	
X19.	M.Phil	Dharamveer Singh	Mutation analysis for test case generation of reliable software	Awarded 2002	
X20.	M.Phil	Ashok Kumar	A multiagent framework for context driven search on internet	Awarded 2008	
X21.	M.Phil	Sandeep Singh	A case study of data model and query processing	Awarded 2008	
X22.	M.Phil	Kulvinder Singh	Study and performance enhancement measures for peer to peer networks	Awarded 2009	

### Experience **done**

Sr No	Designation	Description
1.	Professor ( Direct Selection)	August 2014 onwards, working as professor, Computer Science Deptt, Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi 7583, 7589, 7590
2.	Associate professor	May 15, 2009 to Aug 2014 , worked as Associate Professor, in School of Information and Communication Technology, Gautam Buddha University, Greater Noida, Gautam Buddha Nagar- 201308 (U.P) 7591, 7592,
3	Reader	Oct., 2005 to April 2006 (on lien), worked as Reader, School of Computer and Information Sciences, Indira Gandhi National Open University, Maidan Garhi, New Delhi. 7593
4	Asstt Professor	April 2006 to May 2009: worked as Assistant Professor / ( Associate Professor since Jan 2007) in Computer Engg. Dept., YMCA University of Engineering and Technology, Faridabad. (Haryana) 7594,7595. Professor under CAS since January 2011
5	Lect / Lect ( sr scale/ Lect	January 1994 to Oct. 2005: worked as lecturer / Sr Lecturer / Lecturer Selection grade in Computer Engg. Dept., YMCA University of

	( sl.grade)	Engineering and Technology, Faridabad (Haryana)	
6	Lecturer	February 1993 to December 1993: worked as lecturer in Computer Engg. Dept., Priyadarshini College of Computer Sciences, New Delhi. 7596, 7597,7598, 7599	
7	Lecturer	January 1991 to February 1993: worked as lecturer in Electronics and Instrumentation Engg deptt., Bundelkhand Institute of Engineering & Technology, Jhansi. (U.P.) 7601, 7602,7603	

### About my Ph.D work

My research work is in the area of Natural Language Processing. (Subarea: pragmatic discourse analysis). In this work I have developed an algorithm for “Pronominal Anaphora Resolution” for English text. It is implemented in C++ and a prototype working system (**PARS: Pronominal Anaphora Resolution System**) is developed based on this algorithm which is able to resolve third person pronominal anaphora. The system is tested for English inputs and works well.

### About my M.Tech dissertation

The title of M.Tech. Dissertation is “**Parallel Evaluation of Supercombinator Program on a Data Flow Machine**”. My dissertation work is in the area of Parallel and Functional Programming. In this dissertation, I have developed a parallel code for supercombinator program and designed its packet based evaluation scheme on a G-machine which is based on data flow architecture.

### Courses Taught at M. Tech. Level

Taught Following courses to M. Tech. students.

- Artificial Intelligence.
- Knowledge Based System Design.
- Advanced Computer Architecture.
- Computer Graphics.
- System Programming
- Soft Computing Techniques
- Software Engineering
- Data Communication

### Courses Taught at B. Tech. Level

Teaching B. Tech Classes since January 1991. Taught almost all subjects at B.Tech. level to different Batches:

**Projects Guided** : Guided more than 50 B.Tech projects apart from dissertation of M.Tech / M.Phil students.

**General Information**

- Won district carom championship in year 2004 conducted by Faridabad Carom association.
- Won university chess championship consecutively for four years.
- Awarded as best ranger for the year 1987 at university level.
- Active in social welfare activities also.

**Personal Profile:**

Date of birth : 03-02-1968  
Marital Status : Married  
Husband's Name : Mr. Milind Kumar  
Nationality : Indian

**(Ela Kumar)**

Place :  
Date :