

## RESUME



***Dr MAMTA***

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HIG DDA Flats, Signature View Apartment

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### **Objective**

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To give the best of teaching and guidance to enhance and enrich the Institution to whom I am concerned and attached with and to shape up the carrier of students by new Innovative Research Ideas in the Field of Computer Science.

### **Research Interest**

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Complexity and Connectivity Analysis of Partitioning and Balancing Techniques and their Various Structural Properties of Parallel and Distributed System.  
Analyzing Various Structural properties by performing AND,OR and XOR operations on Connectivity Matrix of Interconnection Network.

## Thesis Title

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Analysis of Connectivity and Complexity for Partitioning and Balancing Techniques in Parallel and Distributed System

## Academic Qualifications

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DEGREE/CERTIFICATE	Institution/Board	DIVISION	PERCENTAGE
Ph.D.	APS University, M.P	-	Awarded
M. Phil	V M University	1 <sup>st</sup>	63.25%
MCA	Indira Gandhi National Open University	1 <sup>st</sup>	61%
B.Sc (H)	B V University	1 <sup>st</sup>	63%
12th	CBSE	1 <sup>st</sup>	64.4%
10 <sup>th</sup>	CBSE	1 <sup>st</sup>	64.4%

## Teaching Experience

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- Worked as Assistant Professor on Ad-hoc basis in Dept. of Computer Science from 26 July 2018 to 10 June.2020 in JDM College , DU
- Worked as an Assistant Professor on Ad-hoc basis in Dept. of Computer Science from 10 Dec.2008 to 31 Aug.2013 in SSN college , DU
- Worked as Assistant Professor as Guest faculty in Computer Science from 01 Sep to 15 Nov, 2014.
- Worked as Computer Faculty in D.A.V Public School.
- Total Teaching Experience : 7 Years on Ad-hoc basis.

## Expertise

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OS Platform – Windows XP/2000/2007/2008/2010, UNIX, LINUX

Language – C, C++, Python, Visual Basic

Database- SQL, MS-Access

Web Design – HTML, XML, JAVA

Other Topics – Theory of Computation, RDBMS, Networking, Operating System

### **Subject Taught**

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RDBMS, Operating System, Computer Fundamentals, Computer Networks, Python, MySQL, Information Security and Cyber Laws, HTML and JavaScript.

### **Seminar/Conference/Paper Presented**

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- Six papers presented in International Conferences
- Nine papers presented in National Conferences

### **Published Work in National and International Journals during Research**

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- Study of Complexity of Structural Relation for Interconnection Network, International Journal of Computer Application (0975-8887) vol.180-No. 22 Feb 2018
- A Comparative Study of Various Load Balancing Algorithm, International Journal Of Computer Applications (0975-8887), Volume 169 - No.10, July 2017
- A Multilevel Graphical Approach to Task Partitioning in Parallel and Distributed System , Inspira - JCECS p- ISSN : 2397-7069 (IM : 2.0546) Volume 03 April-June 2017,pp 227-231
- Study of Butterfly Patterns of Matrix in Interconnection Network ,International Journal of Scientific and Engineering Research, Volume 7, Issue 12, Dec 2016, ISSN : 2229-5518

- Analysis of Weighted Graph Theoretic Approach to Task Partitioning and load balancing in a Multiprocessor System, Inspira - JCECS ISSN : 2395-7069 (IM-1.7122) Volume 02, Oct-Dec2016, pp.203-206

**Other Papers Published:**

- Interprocessor Communication aspects of Parallel and Distributed System', A International research Journal of ICSES January-March-2013,ISSN -2249-6114,pp.328-333
- The Information Technology, Social Media and Election Process, A International Research Journal of ICSES, October-December 2013 Volume 15,ISSN 0976-9358

**Responsibilities and Other Activities**

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- Member of Discipline Committee of JDM College, DU.
- Member of E-Cell of JDM College, DU.
- Member of Debating Society of SSN College, DU.
- Member of Cultural Society of SSN College, DU.

Dr Mamta Kumari