

## Bio-Data



### 1. GENERAL INFORMATION

|   |  |
|---|--|
| <b>Name<br/>(In Capital Letters)</b>      | <b><i>PROF. (DR.) RAKESH KUMAR KATARE</i></b>  |
| <b>Date of Birth<br/>(Day/Month/Year)</b> | 25/08/1962   |
| <b>Father's Name</b>                      | <i>PROF. (DR.) SHYAM SUNDER KATARE (Retired Professor of Geography at Man Kuwar Bai College, Jabalpur (M.P.), India) 07612662046, 9424927380</i> |
| <b>Mother's Name</b>                      | <i>SMT. TARA DEVI KATARE</i>   |
| <b>Correspondence Address</b>             | F-14 CIVIL LINES BEHIND COLLECTOR BUNGLOW, REWA<br>MADHYA PRADESH 486001   |
| <b>Permanent Address</b>                  | DUPLEX-10, SATYA VIHAR, DEPO NO. 2, IN FRONT OF GORAKHPUR<br>THANA, GORAKHPUR, JABALPUR.   |
| <b>Phone No.</b>                          | <b>Mobile No. :+91-9425352462</b><br><b>Landline No. :</b>   |
| <b>Email</b>                              | <b>Katare1962@gmail.com, katare_rakesh@yahoo.com</b>   |

### 2. PRESENT POSITION

|           |  |   |
|-----------|--|---|
| <b>a.</b> | <b>Designation</b>                             | PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE   |
| <b>b.</b> | <b>Organization</b>                            | AWADHESH PRATAP SINGH UNIVERSITY REWA, MADHYA PRADESH   |
| <b>c.</b> | <b>Pay Scale</b>                               | 37400-67000+AGP 10000 (SIXTH PAY COMMISSION)  |
| <b>d.</b> | <b>Date of appointment to the present post</b> | Appointed on 24/08/1993 as Lecturer and promoted as Associate Professor and then Professor on 24/08/2009  |
| <b>e.</b> | <b>Total Experience (In Years and Months)</b>  | (1) PROFESSOR- 13 YEARS 07 MONTHS<br>(2) PROFESSOR & DEAN 11 MONTHS*<br>(3) ASSOCIATE PROFESSOR 03 YEARS<br>(4) ASSISTANT PROFESSOR /READER/ LECTURER -13 YEARS<br>TOTAL=29 YEARS 07 MONTHS |

### 3. DETAILS OF EXPERIENCE

| S. No. | Post Held              | Pay Scale                                   | Organization                        | Nature of duties               | Experience (In Years and Months) |
|--------|------------------------|---|-------------------------------------|--------------------------------|----------------------------------|
| 1.     | PROFESSOR              | 37400-67000<br>(P.B.IV) + 10,000<br>(A.G.P) | A.P.S.<br>UNIVERSITY<br>REWA (M.P.) | ACADEMIC AND<br>ADMINISTRATIVE | 13 YEARS 07<br>MONTHS            |
| 2.     | ASSOCIATE<br>PROFESSOR | 37400-67000<br>(P.B.IV) + 9,000<br>(A.G.P)  | A.P.S.<br>UNIVERSITY<br>REWA (M.P.) | ACADEMIC AND<br>ADMINISTRATIVE | 03 YEAR                          |
| 3.     | READER/<br>LECTURER    | 12000-420-18300                             | A.P.S.<br>UNIVERSITY<br>REWA (M.P.) | ACADEMIC AND<br>ADMINISTRATIVE | 03 YEAR                          |

|    |                               |  |  |                             |  |
|----|-------------------------------|--|--|-----------------------------|--|
|    | (SELECTION GRADE)             |  |  |                             |  |
| 4. | ASSISTANT PROFESSOR/ LECTURER | SENIOR SCALE +23890+8000 AGP ON 01-01-2006 | A.P.S. UNIVERSITY REWA (M.P.)                | ACADEMIC AND ADMINISTRATIVE | 10 YEAR  |
| 5. | PROFESSOR & DEAN              | 1,25,000 (PER MONTH CONSOLIDATE)           | INSTITUTE OF TECHNOLOGY & MANAGEMENT GWALIOR | ACADEMIC AND ADMINISTRATIVE | 11 MONTHS (On Lien From A.P.S. University, Rewa) |

#### 4. EDUCATIONAL QUALIFICATION (In chronological order from latest to Graduation level)

| S. No. | Qualification                       | University                            | Year | Subject(s)/ Topic(s)            | % Achieved | Distinctions etc.                             |
|--------|-------------------------------------|---------------------------------------|------|---------------------------------|------------|---|
| 1.     | Ph.D.                               | DEVI AHILYA UNIVERSITY, INDORE (M.P.) | 2009 | COMPUTER SCIENCE                |            |   |
| 2.     | M.Tech.                             | DEVI AHILYA UNIVERSITY, INDORE (M.P.) | 2000 | COMPUTER SCIENCE                | 75.88%     | Distinction                                   |
| 3.     | M.Phil.                             | R.D. UNIVERSITY, JABALPUR (M.P.)      | 1987 | PHYSICS                         | 65%        | Dept. of PG Studies R.D. University, Jabalpur |
| 4.     | M.Sc.                               | R.D. UNIVERSITY, JABALPUR (M.P.)      | 1985 | PHYSICS                         | 60.6%      | Dept. of PG Studies R.D. University, Jabalpur |
| 5.     | B.Sc.                               | R.D. UNIVERSITY, JABALPUR (MP)        | 1983 | PHYSICS, CHEMISTRY, MATHEMATICS | 52.6%      | Govt. Science College, Jabalpur               |
| 6.     | HIGHER SECONDARY SCHOOL CERTIFICATE | M.P. BOARD BHOPAL                     | 1980 | PHYSICS, CHEMISTRY, MATHEMATICS | 55.2%      | Maharashtra Higher Secondary School, Jabalpur |

#### 5. ADMINISTRATIVE EXPERIENCE/POST(S) & RESPONSIBILITIES HELD

| S. No. | Post                   | Organization/ University                                 | Duration    |            | Experience (In Years and Months) |
|--------|------------------------|--|-------------|------------|----------------------------------|
|        |                        |  | From (Date) | To (Date)  |                                  |
| 1.     | Head of the Department | USIC   | 01/08/2022  | TILL NOW   | 07 MONTHS                        |
| 2.     | Head of the Department | DEPT. OF COMPUTER SCIENCE, A.P.S. UNIVERSITY REWA (M.P.) | 27/07/2021  | TILL NOW   | 01 YEARS 07 MONTHS               |
| 3.     | Head of the Department | DEPT. OF COMPUTER SCIENCE, A.P.S. UNIVERSITY REWA (M.P.) | 24/07/2015  | 23/07/2018 | 03 YEARS                         |

|    |  |  |                                 |            |                       |
|----|--|--|---------------------------------|------------|-----------------------|
| 4. | <b>Chairman, Board of Studies</b>              | A.P.S. UNIVERSITY<br>REWA (M.P.)   | APRIL-2015                      | APRIL-2018 | 03 YEARS              |
| 5. | <b>Member, Board of Studies</b>                | (i) A.P.S. UNIVERSITY<br>REWA (M.P.)   | SINCE<br>APPOINTMENT<br>IN 1993 | TILL DATE  | 29 YEARS 07<br>MONTHS |
|    |  | ii) JIWAJI UNIVERSITY<br>GWALIOR<br>(iii) SIR HARI SINGH<br>GAUR CENTRAL<br>UNIVERSITY, SAGAR<br>(iv) CENTRAL BOARD<br>OF STUDIES,<br>DEPARTMENT OF<br>HIGHER EDUCATION<br>GOVT. OF M.P., BHOPAL |                                 |            |                       |
| 6. | <b>Dean of Faculty</b>                         | INSTITUTE OF<br>INFORMATION<br>TECHNOLOGY AND<br>MANAGEMENT,<br>GWALIOR  | 08/06/2011                      | 13/03/2012 | 09 MONTHS<br>05 DAYS  |
| 7. | <b>Member of Academic Council</b>              | A.P.S. UNIVERSITY<br>REWA (M.P.)   | 2015                            | 2018       | 03 YEARS              |
| 8. | <b>Member of Professional/ Academic Bodies</b> | (i) MEMBER<br>TECHNOCRATE<br>INSTITUTE OF<br>ENGINEERING<br>KOLKATA<br>(ii) MEMBER EXPERT<br>COMMITTEE AT<br>CHHATTISGARH<br>PUBLIC SERVICE<br>COMMISSION  |                                 |            |                       |

#### 6. (a) Academic/Teaching Experience & Responsibilities

(In chronological order from latest to Oldest)

| S. No. | Post  | Organization/<br>University  | Duration       |              | Experience<br>(In Years and<br>Months) |
|--------|---|--|----------------|--------------|--|
|        |   |  | From<br>(Date) | To<br>(Date) |  |
| 1.     | PROFESSOR                                   | DEPT. OF<br>COMPUTER<br>SCIENCE, A.P.S.<br>UNIVERSITY REWA<br>(M.P.) | 24-08-2009     | TILL DATE    | 13 YEARS<br>07 MONTHS                  |
| 2      | ASSOCIATE<br>PROFESSOR                      | DEPT. OF<br>COMPUTER<br>SCIENCE, A.P.S.<br>UNIVERSITY REWA<br>(M.P.) | 24-08-2006     | 23-08-2009   | 03 YEAR                                |
| 3.     | READER/<br>LECTURER<br>(SELECTION<br>GRADE) | A.P.S. UNIVERSITY<br>REWA (M.P.)                                     | 24-08-2003     | 23-08-2006   | 03 YEAR                                |
| 4.     | ASSISTANT<br>PROFESSOR/<br>LECTURER         | DEPT. OF<br>COMPUTER<br>SCIENCE, A.P.S.                              | 24-08-1993     | 23-08-2003   | 10 YEAR                                |

|    |                  |  |            |            |           |
|----|------------------|--|------------|------------|-----------|
|    |                  | UNIVERSITY REWA (M.P.)                                   |            |            |           |
| 5. | PROFESSOR & DEAN | ITM GWALIOR, M.P. (ON LIEN FROM A.P.S. UNIVERSITY, REWA) | 30-03-2011 | 13-03-2012 | 11 MONTHS |

**(b) Participation and contribution in relevant areas in higher education**

|                  | Organization  | Area of specialization             |
|------------------|---|------------------------------------|
| Resource Person  | ITM, UNIVERSE, GWALIOR  | COMPUTER SCIENCE                   |
| Resource Person  | SCHOOL OF MANAGEMENT SCIENCE, VARANSI   | PARALLEL AND DISTRIBUTED COMPUTING |
| Resource Person  | A.P.S. UNIVERSITY, REWA(M.P.)   | COMPUTER SCIENCE                   |
| Others (Specify) | (1) DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF CALIFORNIA, SANTA BARBARA (WORKING FROM A.P.S. UNIVERSITY REWA) | PARALLEL AND DISTRIBUTED SYSTEM    |

**(c) Involvement with formulation of academic programmes**

| S. No. | Nomenclature of Innovative Academic Programmes formulated               | Date of approval by Academic Council | Year of Introduction |
|--------|---|--------------------------------------|----------------------|
| 1.     | M.Sc.(ICT)  | 01/07/2022                           | 2022                 |
| 2.     | PG Diploma in Data Science  | 01/07/2022                           | 2022                 |
| 3.     | PG Diploma in Web Designing   | 01/07/2022                           | 2022                 |
| 4.     | B.Sc.(HONOURS) Computer Science   | 01/07/2018                           | 2018                 |
| 5.     | M.TECH.(CS)   | 01/07/2014                           | 2014                 |
| 6.     | M.PHIL.(CS)   | 01/07/2006                           | 2006                 |
| 7.     | M.Sc. (IT)  | 01/07/2000                           | 2000                 |
| 8.     | M.Sc.(CS)   | 01/07/1999                           | 1999                 |
| 9.     | PGDCA (SANCTIONED BY UGC WITH POST AND CONCURRENCE BY STATE GOVERNMENT) | 01/07/1991                           | 1991                 |

**(d) Important MoUs formulated for academic collaborations**

| S. No. | MoUs formulated               | Name of Agencies/ Departments involved. | Year of MoU |
|--------|-------------------------------|---|-------------|
| 1.     | APS UNIVERSITY AND INFILIBNET | SHODH GANGA                             | 2018        |

**(e) Position of Chairs**

| S. No. | Name of Chair                      | Name of Agencies/ Departments involved.                 | Period of holding Chair  |
|--------|------------------------------------|---|--------------------------|
| 1.     | CHAIRMAN BOARD OF STUDIES          | A P S UNIVERSITY, REWA                                  | 01/04/2015 To 01/04/2018 |
| 2.     | MEMBER , BOARD OF STUDIES          | A P S UNIVERSITY, REWA                                  | 01/07/1993 To TILL DATE  |
| 3.     | CHAIRMAN, CENTRAL BOARD OF STUDIES | DEPARTMENT OF HIGHER EDUCATION, GOVT OF MP, BHOPAL (MP) | 01/07/2017 To 30/06/2018 |
| 4.     | MEMBER TECHNOCRAT                  | INSTITUTE OF ENGINEERS, KOLKATTA                        | 31/01/2013 To TILL DATE  |

## 7. SCHOLARLY ACHIEVEMENTS

### A. Contribution to Journals and Books

|   | Details  |
|---|--|
| <b>Editorships</b>                                | GUEST EDITOR IN THE JOURNAL OF ENGINEERING IET OPEN ACCESS RESEARCH, ENGLAND & WALE (NO. 211014) AND SCOTLAND (NO. SC038698), UK |
| <b>Peer reviewer for</b>                          | JOURNAL OF SUPERCOMPUTING, THE ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING & MANY OTHER JOURNALS                                 |
| <b>Member of the International Advisory Board</b> | EXPERT VISITING COMMEETIE AICTE, NEW DELHI   |
| <b>Others (Specify)</b>                           | MEMBER CO-ORDINATOR AT NAAC  |

### B. Publication

#### B.I. Scholarly publications in recognized professional and/or academic journals

Total Publications: 53

| S. No. | Date                   |                     | Title   | Name of Journal   | Referred Journal or not | Number of Citations (where possible) |
|--------|------------------------|---------------------|---|---|-------------------------|--------------------------------------|
|        | Month of Publication   | Year of Publication |   |   |                         |                                      |
| 1.     | January/<br>Volume 2   | 2007                | A Comparative Study Of Hypercube And Perfect Difference Network For Parallel And Distributed System | Varahmihir Journal Of Computer And Information Sciences   | Yes                     | 10                                   |
| 2.     | Volume 3               | 2007                | Streaming video using dynamic rate limiting and TCP congestion control                              | Management Insight  | Yes                     | 0                                    |
| 3.     | December               | 2008                | Some P-RAM Algorithms For Sparse Linear Systems   | Journal of Computer Science, Science Publication, USA   | Yes                     | 3                                    |
| 4.     | January                | 2008                | Study Of Parallel Algorithms For Sparse Linear Systems And Different Interconnection Networks       | Journal of Computer, Mathematical Science and Applications, Serial Publication, New Delhi                               | Yes                     | 2                                    |
| 5.     | January/<br>Volume 6   | 2009                | Study Of Topological Property Of Interconnection Networks and Its Mapping To Sparse Matrix Model    | International Journal of Science of Computer Science and Applications Technomathematics Research Foundation             | Yes                     | 18                                   |
| 6.     | September/<br>Volume 2 | 2010                | P-Ram Algorithms And Data Structures For Sparse Linear Systems                                      | Journal of Engineering, Science and Management Education  | Yes                     | 0                                    |
| 7.     | June                   | 2013                | An Analytical Study of Data Structure, Algorithm and Link Utilization of Perfect Difference Network | Proceedings of the International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS) | Yes                     | 0                                    |
| 8.     | July/ 2013             | 2013                | Study of Link Utilization of Perfect Difference Network and Hypercube                               | Proceedings of the 2013 International Conference on Parallel  | Yes                     | 1                                    |

|     |                                      |      |   |   |     |    |
|-----|--------------------------------------|------|---|---|-----|----|
|     |                                      |      |   | and Distributed Processing Techniques<br>a  |     |    |
| 9.  | December<br>Volume 5,<br>issue 12    | 2014 | Distributed Algorithms and their Communication Costs  | International Research Journal of Commerce Arts and Science                             | Yes | 0  |
| 10. | Volume 5 /<br>Issue 10               | 2014 | Parallel Classical Algorithms And Their Communication Costs   | International Research Journal of Management Science & Technology                       | Yes | 0  |
| 11. | January/<br>Volume 5<br>Issue 1      | 2014 | An optimization algorithm for finding graph circuits and shortest cyclic paths in directed/undirected graph                                 | International Journal of Scientific & Engineering Research                              | Yes | 1  |
| 12. | January/<br>Volume 2<br>Issue 1      | 2014 | Scheduling Algorithm With Load Balancing In Cloud Computing   | International Journal of Scientific Engineering and Research (IJSER)                    | Yes | 12 |
| 13. | February/<br>Volume 4,<br>Issue 2    | 2014 | Analysis Of Public Cloud Load Balancing Using Partitioning Method And Game Theory   | International Journal of Advanced Research in Computer Science and Software Engineering | Yes | 14 |
| 14. | September /<br>Volume 4 /<br>Issue 9 | 2015 | A Study of Fabric of Architecture using structural pattern and Relation   | Int J Latest Technol Eng Manag Appl Sci   | Yes | 04 |
| 15. | March                                | 2015 | Hamiltonian, Topological properties of Hex-Cell and Perfect Difference Network (PDN) for design new Hybrid Architecture for Parallel System | National Seminar on Recent Trends in Science and Technology                             | Yes | 03 |
| 16. | March/<br>Volume 5,<br>Issue 3       | 2015 | Alliance Study of PDN & Hex-Cell Architecture   | International Journal of Emerging Technology and Advanced Engineering                   | Yes | 3  |
| 17. | Volume 4 /<br>Issue 3                | 2015 | A survey on synchronous and asynchronous parallel distributed algorithms  | International Journal of Engineering, Science and Mathematics                           | Yes | 0  |
| 18. | October /<br>Volume 1 /<br>Issue 5   | 2015 | Iteration in Asynchronous System  | IJSRSET   | Yes | 0  |
| 19. | August/<br>Volume 1,<br>Issue 4      | 2015 | An Iterative Method in Asynchronous System using Asynchronous Algorithms  | International Journal of Scientific Research in Science, Engineering and Technology     | Yes | 1  |
| 20. | August/<br>Volume 1,<br>Issue 4      | 2015 | Recent Trends comprehensive survey of Asynchronous Network and its Significant  | International Journal of Scientific Research in Science, Engineering and Technology     | Yes | 0  |
| 21. | October /<br>Volume 1 /<br>Issue 5   | 2015 | Interconnection Network of Asynchronous System  | IJSRSET   | Yes | 0  |

|     |                                    |      |  |  |     |    |
|-----|------------------------------------|------|--|--|-----|----|
| 22. | October/<br>2015                   | 2015 | Computing And<br>Comprehending Parameters<br>For Structural Analysis Of<br>PDN Ad Hex-Cell<br>Architecture                   | The Research Journal<br>of APS University,<br>Rewa   | Yes | 0  |
| 23. | December/<br>Volume 6,<br>Issue 10 | 2015 | Critical Analysis on the<br>Classical Topological<br>Properties of the Star<br>Graph, Hypercube and<br>PDN                   | International Research<br>journal of<br>Management Science<br>and Technology                     | Yes | 0  |
| 24. | March/<br>Volume 5,<br>Issue 3     | 2016 | Study Of Geometrical<br>Structure Of Perfect<br>Difference Network (PDN)   | International Journal<br>of Advanced Research<br>in Computer and<br>Communication<br>Engineering | Yes | 01 |
| 25. | December/<br>Volume 02             | 2016 | Analysis Of Weighted<br>Graph Theoretic Approach<br>To Task Partitioning And<br>Load Balancing In A<br>Multiprocessor system | Inspira-Journal of<br>Commerce,<br>Economics &<br>Computer Science<br>(JCECS)                    | Yes | 0  |
| 26. | December/<br>Volume 7,<br>Issue 12 | 2016 | Study Of Butterfly Patterns<br>Of Matrix In<br>Interconnection Network   | International Journal<br>of Scientific &<br>Engineering Research                                 | Yes | 0  |
| 27. | September                          | 2017 | Comprehensive Study of<br>Complete Graph and<br>Perfect Difference Network<br>(PDN)  | Intelligent Systems<br>Conference<br>(IntelliSys)  | Yes | 01 |
| 28. | June/<br>Volume 3                  | 2017 | Multilevel Graphical<br>Approach To Task<br>Partitioning In Parallel And<br>Distributed System                               | Inspira-Journal of<br>Commerce,<br>Economics &<br>Computer Science<br>(JCECS)                    | Yes | 0  |
| 29. | June/<br>Volume<br>5, Issue 6      | 2017 | A Study Of Interconnection<br>Network For Parallel And<br>Distributed System   | International Journal<br>of Management,<br>Information<br>Technology and<br>Engineering          | Yes | 02 |
| 30. | June/<br>Volume 169                | 2017 | A Comparative Study Of<br>Various Load Balancing<br>Algorithm In Parallel And<br>Distributed Multiprocessor<br>System        | International Journal<br>of Computer<br>Applications   | Yes | 0  |
| 31. | November/<br>Volume 7,<br>Issue 9  | 2017 | A Study Of Parallel<br>Programing Techniques<br>For Interconnection<br>Network   | International Journal<br>of Emerging<br>Technology and<br>Advanced Engineering                   | Yes | 0  |
| 32. | March/<br>Volume 6,<br>Issue 3     | 2018 | Study Of Structural<br>Representation Of Perfect<br>Difference Network   | International Journal<br>for Research in<br>Applied Science &<br>Engineering<br>Technology       | Yes | 0  |
| 33. | February/<br>Volume 180            | 2018 | Study of Complexity of<br>Structural Relation for<br>Interconnection Network   | International Journal<br>of Computer<br>Applications   | Yes | 0  |
| 34. | June/<br>Volume 6,<br>Issue 6      | 2018 | Application of Fixed-Point<br>Algorithm in Parallel<br>Systems   | International Journal<br>of Computer Sciences<br>and Engineering                                 | Yes | 0  |

|     |                                     |      |  |   |     |    |
|-----|-------------------------------------|------|--|---|-----|----|
| 35. | June/<br>Volume 6,<br>Issue 6       | 2019 | Study of Topological Analogies of Perfect difference Network and Complete Graph  | International Research Journal of Engineering and Technology (IRJET)                | Yes | 0  |
| 36. | December/<br>Volume 10              | 2019 | Vector Operation On Nodes Of Perfect Diference Network Using Logical Operators   | International Journal of Advanced Research in Computer Science                      | Yes | 01 |
| 37. | November/<br>Volume 10              | 2019 | Topological Properties Of Network And Information Flow For Parallel And Distributed System                                 | International Journal of Advanced Research in Computer Science                      | Yes | 0  |
| 38. | December/<br>Volume 3,<br>Issue 12  | 2019 | Binary Relations with Different Properties of Structural Patterns in Network Information Flow                              | International Journal of Scientific Research in Engineering and Management (IJSREM) | Yes | 0  |
| 39. | September/<br>Volume 10<br>Issue 3  | 2020 | Study of Data Structure and Symmetry Properties for Interconnection Network  | International Research Journal Of Science Engineering And Technology                | Yes | 0  |
| 40. | September/<br>Volume 10<br>Issue 2  | 2020 | A Study of Structural Analysis of Perfect Difference Network (PDN)   | International Research Journal Of Science Engineering And Technology                | Yes | 0  |
| 41. | October/<br>Volume 02               | 2020 | Study of Superimposition of Edges of Spanning Tree in PDN Using PDS of ..... nodes   | International Journal of Advances in Engineering and Management (IJAEM)             | Yes | 0  |
| 42. | December/<br>Volume 02              | 2020 | Recursive Cube of Rings and their implementation in Interconnection Networks   | International Journal of Advances in Engineering and Management (IJAEM)             | Yes | 0  |
| 43. | October/<br>Volume 09               | 2020 | Study of connectivity using AND and XOR logical operation of Josephus Cube for Parallel and Distributed systems            | International journal of innovative research and growth                             | Yes | 0  |
| 44. | Volume 8,<br>Issue.10               | 2020 | Study of Topological Properties of Interconnection Networks  | International Journal of Computer Sciences and Engineering                          | Yes | 0  |
| 45. | Volume 6 /<br>Issue 2               | 2021 | A Brief Review on Contribution in Interconnection Networks   | Journal of Networking, Computer Security and Engineering                            | Yes | 0  |
| 46. | Volume 6 /<br>Issue 2               | 2021 | The Interconnect Data Network Architecture for Parallel Systems  | Journal of Networking, Computer Security and Engineering                            | Yes | 0  |
| 47. | May                                 | 2021 | Study of Communication Pattern for Perfect Difference Network  | Machine Vision and Augmented Intelligence—Theory and Applications                   | Yes | 0  |
| 48. | September/<br>Volume 8 /<br>Issue 6 | 2021 | Study of Connectivity and Complexity of Architecture for Parallel and Distributed System by Using Topological Linear Space | International Journal Of Innovative Research In Technology                          | Yes | 0  |



|     |                       |      |   |  |     |   |
|-----|-----------------------|------|---|--|-----|---|
| 49. | Volume XIII, Issue IV | 2021 | Study of Connectivity and Structural Properties of Perfect Difference Network and its mapping to Data Structure | The International journal of analytical and experimental modal analysis                                  | Yes | 0 |
| 50. | Volume 8 Issue 4      | 2021 | Study of Patterns of Connectivity in Hypercube Interconnection Network Through Number Theoretic Notation        | IJIRT  | Yes | 0 |
| 51. | Volume 7, Issue 5     | 2021 | Study of Communication Structural Relationship between Processors of Parallel and Distributed System            | International Journal of Scientific Research in Computer Science, Engineering and Information Technology | Yes | 0 |
| 52. | Volume 12 Issue 1     | 2022 | Study of Logical Operations between the vectors of a Hypercube  | International Research Journal of Science Engineering and Technology                                     | Yes | 0 |
| 53. | Volume 11, Issue 2    | 2022 | A Study of Vectors and Link Utilization of Hypercube  | International Journal of Advanced Research in Computer and Communication Engineering                     | Yes | 0 |

## B. Participation and scholarly presentations in conferences

### B.II. National

| S.No. | Type     | Date       | Title of Conference or Institution   | Title/Subject of Presentation (if made)                       |
|-------|----------|------------|--|---|
| 1     | National | 29/04/2016 | Department of Computer Science and Application Kurukshetra University, Kurukshetra | Advances in Computer Science & Engineering (ACSE-2016)        |
| 2     | National | 06/05/2010 | Information Technology & Business Intelligence (ITBI-2010) @ PIPS, Indore          | P-RAM Algorithms and Data Structures for Sparse Linear System |

### B.III. International

| S.No. | Type          | Date       | Title of Conference or Institution   | Title/Subject of Presentation (if made)  |
|-------|---------------|------------|--|--|
| 1     | International | 25/02/2016 | International Conference on Current Scenario and Prospects of Nanotechnology and Bio-Statistics, ICNB-2016 U.P. Rajarshi Tandon Open University, Allahabad   | Interconnection Network with Nanotechnology  |
| 2     | International | 21/11/2015 | International Conference on Emerging Research in Computer Science and Software Engineering, Sponsored by MPCST, Bhopal, Organized by UICSA, R. D. University, Jabalpur, M.P., India                              | A Study of Structural Pattern of Interconnection Network and its Mathematical Representation |
| 3     | International | 09/02/2015 | Proceeding of 2nd International Conference on Emerging Trends in Computer Science, Communication and Information Technology, Nanded MH   | A Study of Hex-Cell, Complete Graph and Perfect Difference Network (PDN)                     |
| 4     | International | 22/07/2013 | Proceedings of the 2013 International Conference on Parallel and Distributed Processing Techniques and Applications, ISBN: 1-60132-256-9, 1-60132-257-7 (1-60132-258-5), Volume II, WORLDCOMP'13, Las Vegas, USA | Study of Link Utilization of Perfect Difference Network and Hypercube                        |

|   |               |            |   |  |
|---|---------------|------------|---|--|
| 5 | International | 22/07/2013 | The International Conference on Frontier in Education: Computer Science and Computer Engineering (FECS'13)WORLDCOMP'13, Las Vegas Nevada, USA | An Analytical Study of Data Structure, Algorithms and Link Utilization of Perfect Difference Network |
|---|---------------|------------|---|--|

**C. Participation and contribution in National/International Fora in the area of your academic and professional expertise**

|                                | Type          | Number(s)   |
|--------------------------------|---------------|-------------|
| Plenary Lectures/Invited Talks | National      | 01          |
| Congresses attended            | International | 02 (IN USA) |
| Examinership etc.              | National      | 03          |

**8. CONSULTING EXPERIENCE**

| S. No. | Client/Organization's Name          | Nature of assignment                              | Duration of assignment              |
|--------|-------------------------------------|---|-------------------------------------|
| 1.     | Gandhi Medical College, Bhopal (MP) | Development of Software (Pulmonary Function Test) | One Week (20/09/1989 To 25/09/1989) |

**9. NO. OF RESEARCH SCHOLARS SUCCESSFULLY GUIDED**

| Name of Programme | Awarded (No.) (Under-progress not to be included) |
|-------------------|---|
| Ph.D.             | 08  |
| M.Tech.(CS)       | 15+   |
| M.Phil.(CS)       | 50+   |
| M.Sc.(CS)         | 100+  |

**10. FOREIGN COUNTRY (S) VISITED**

| S. No. | Name of the Country/Place | From       | To         | Total Duration | Purpose                  |
|--------|---------------------------|------------|------------|----------------|--------------------------|
| 1.     | Las Vegas, USA            | 22/07/2013 | 25/07/2013 | 04 Days        | For attending Conference |

**11. DETAILS OF REFEREES**

| S.No. | Name of the Referee  | Post Held by Referee   | Email               | Phone No.   | Mobile      |
|-------|----------------------|--|---------------------|-------------|-------------|
| 1.    | Prof. N.S. Chaudhari | Director, VNIT, Nagpur and Professor at Department of Computer Science & Engineering, I.I.T. Indore (M.P.) | nsc183@gmail.com    | 09422802961 | 09422802961 |
| 2.    | Prof. B.K. Sthapak   | Chancellor, Jindal University JSPL, Raigarh (C.G.)   | bksthapak@gmail.com | 08839577038 | 09827478190 |
| 3.    | Dr. Rajkumar Acharya | Vice-Chancellor, A.P.S. University, Rewa(M.P.)   | vcapsu@gmail.com    | 9425635585  | 9425635585  |



(Signature)

Place: Rewa

Date: 18/04/2023