Profile of Faculty :-

Name	:	Dr. AJAY MATHUR
Date of Birth	:	20-11-1970
Unique ID	:	RJJO199424000565
Education Qualifications :		B.E., M.Tech., Ph.D. (Computer Science & Engineering)

- **Work Experience**

  - Teaching   :   27 Years
  - Research   :   --
  - Industry   :   --
  - Others   :   02 Years

- Area of Specialization   :   Multi core System

- Course taught at Diploma/Post Diploma/ Under Graduate/

  Post Graduate/ Post Graduate Diploma Level   :   Diploma and Post Diploma

- **Research guidance (No. of Students)**

  - No. of papers published in National/

    International Journals /Conferences   :   --

  - Master (Completed / Ongoing)   :   10-Completed
  - Ph.D. (Completed / Ongoing)   :   05-Completed, 03-Ongoing

- Project Carried out   :   --

- Patents (Filed & Granted)   :   --

- Technology Transfer   :   --

- Research Publications (No. of Papers published in

  National/ International Journals/ Conferences)   :   **16-International Journal Papers, 13-Conferences Papers**

International Journal Research Papers :-

- *An Experimental analysis of Multicore cache organization with Ring Network*, International Journal of Research in Computer Science and Information Technology, ISSN: 2319-5010, Volume 2, Issue 1, July 2013, pp.1-4.

- *Cache coherence protocols in multicore CPU,* International Journal of computational intelligence & communication Technology, ISSN: 2278-6732, Vol.1|Issue 2|Dec.2012, pp. 39-42

- *Mechanisms for maintaining cache coherence in multicore CPU,* IJCICT, ISSN: 2278-6732, Vol.1|Issue 2|Dec.2012, pp. 57-60

- *Literature Survey : Parallel Implementation of Cryptographic Algorithm for Image Encryption,* IJTRE, ISSN (Online) : 2347-4718, Vol. 4, Issue 2, October-2016

- *Parallel Implementation of Cryptographic Algorithm for Image Encryption,* IJTRE, ISSN : 2456-124X, Vol. 1, Issue 7, November-2016
- *Superseding Nearest Neighbor Search in Wireless Network Using Delaunay Tringulation,* IJCST, ISSN : 2347-8578, Vol.4, Issue 2, 2016
- *Intricacies in Development of Interconnection Networks for Multi-core Processors,* IJTRE, ISSN (Online) : 2347-4718, Vol.4, Issue 1, September-2016
- *Comparative study of content based image retrieval by multi feature,* IJTRE USN 2307-4718 Vol. 4 Issue 4, Dec-2016
- *Dynamic Model for temporal protocol,* IJTRE USN 2307-4718 Vol. 4 Issue 9, May-2017
- *Review of literature for Model Based Testing,* IJTRE USN 2307-4718 Vol. 4 Issue 12, Aug-2017
- *Multi-core processing with interconnection network in modern era,* IJARE Vol. 1 Issue 6, Oct-2016
- *A Review on Design and Development of IOT Based Smart System Tool for Agriculture Decision Making : A case study of medicinal plants in Western Rajasthan,* IJARCSMS Vol.9 Issue 1, ISSN:2321-7782 Feb-2021
- An Evolutionary Development from IOT (Internet of Things) to IOE (Internet of Everythings), IRJET Vol.3 Issue 3, ISSN:2395-5252 Feb-2021
- *A Study on Role of IOT (Internet of Things) in College Education for Upcoming future learning,* IJEAM Vol.3 Issue 2, ISSN:2395-5252 Feb-2021
- *A Review on Design & Development of Air Quality Visualization System using IOT,* IJARCSMS Vol.9 Issue 1, ISSN 2347-1778, Jan-2021
- Medicinal Plants : Importance & Limitations, IRJET Vol.8 Issue 1, ISSN 2395-0072, Jan-2021

International Conference Papers :-
- Shared cache management for multi core CPU, ICETCSIT-2012, JJT University, Jhunjhunu
- Cache Coherence Protocols, ICRTCTA-2012, Janardan Rai Nagar Rajasthan Vidhyapeeth University, Udaipur
- Impact of cache organization in multicore CPU, International conference on contempory innovative practices in Management, Pacific University, Udaipur
- IDS: Securing multicore systems, ICETCSIT 2012,JJT University, Jhunjhunu
- Impact of ring based cache coherence protocol, International conference on sustainable management practices, Mohanlal Sukhadia University, Udaipur
- Maintaining cache coherence in Multicore CPU, ICRTCTA-2012, Janardan Rai Nagar Rajasthan Vidhyapeeth University, Udaipur
- Muticore Cache organization with Ring Network, ICRTET-2013, SKBJ college of engg. Nashik, Maharashtra
- Sniffer Detection and Load Balancing Using Aglets in a Cluster of Heterogeneous Distributed System Environment, IEEE Seventh POWER INDIA International Conference 2016 (PIICON-2016), Bikaner Engineering College, Bikaner
- Aglet and Kerrighed as a Tool for Load Balancing and Scheduling in Distributed Environment, IEEE Second International Conference on Recent Advances and Innovation in Engineering, December 2016, POORNIMA ENGG. COLLEGE, JAIPUR (ICRAIE-2016)
- FB Pager:Android App for facebook International conference ESDETM-2018

- Investigation of various block matching algorithm for motion estimation, EECCMC international corporation(IEEE) Jan 2018
- A comparative study of load balancing Technologies in distributed systems, EECCMC international corporation(IEEE) Jan 2018
- An improved block based motion estimation algorithm for compressing a video, International Conference ICICI 2018 (Springer)

- No. of Books Published with details (Name of the book,
  Publisher with ISBN, year of publication, etc)   :   **11-Books**
  - C-Programming, VPD, Jaipur
  - Programming in JAVA, VPD, Jaipur
  - Unix & Shell Programming, VPD, Jaipur
  - System Analysis & Design, VPD, Jaipur
  - Visual Basic, VPD, Jaipur
  - Object Oriented Programming through C++, VPD, Jaipur
  - Advanced Database Management System, VPD, Jaipur
  - Operating System, VPD, Jaipur
  - Computer Network, VPD, Jaipur
  - Fundamental of Computer, VPD, Jaipur
  - PC Maintenance & Troubleshooting, VPD, Jaipur