



**MAHARAJA AGRASEN  
COLLEGE**  
University of Delhi  
VASUNDHARA ENCLAVE, DELHI-110096



**Curriculum Vitae of Faculty Members**

First Name	<b>Praveen</b>	Middle Name	<b>Kant</b>	Last Name	<b>Pandey</b>
Designation	<b>Professor</b>		Department	<b>Electronics</b>	
Date of Birth	<b>10 November 1975</b>		Date of Joining	<b>26 December 2002</b>	
Residential Address (Optional)	123, Pocket – E, Mayur Vihar Phase – 2, Delhi – 110091				
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<b>Education</b>					
Subject	Institution	Year	Details		
Ph.D	University of Delhi	2008	Dept of Electronics, UDSC		
Masters	University of Delhi	1999	M.Sc. Electronics		
Graduation	University of Delhi	1997	B.Sc. (H) Electronics		
<b>Career Profile</b>					
<b>Organization/ Institution</b>	<b>Post Held</b>	<b>Department</b>	<b>Adhoc/Temp/ Permanent</b>	<b>From</b>	<b>To</b>
Maharaja Agrasen College	Assistant Professor	Electronics	Adhoc	08-09-99	30-04-01
Bhaskaracharya College of Applied Science	Assistant Professor	Electronics	Adhoc	30-07-01	30-04-02
ARSD College	Assistant Professor	Electronics	Adhoc	30-07-02	26-10-02
Hansraj College	Assistant Professor	Electronics	Adhoc	28-10-02	24-12-02

Maharaja Agrasen College	Assistant Professor	Electronics	Permanent	26-12-02	20-06-12
Maharaja Agrasen College	Associate Professor	Electronics	Permanent	21-06-12	30-09-18
Maharaja Agrasen College	Professor	Electronics	Permanent	01-10-18	Till date

**Administrative Assignments if any (2008 onwards)**

Abdul Kalam Centre	Coordinator	2022, 21, 20, 19, 18, 17, 16
Embedded Systems & Robotics Centre	Coordinator	2022, 21, 20, 19, 18, 17, 16, 15, 14
NAAC Steering Committee	Member	2022, 21, 20, 19, 18, 17, 16, 15
NIRF Committee	Member	2022, 21, 20, 19, 18, 17
Department of Electronics	Teacher Incharge	2020, 19, 2010, 09
IQAC	Member	2020, 19
MAC eLearning Team	Member	2022, 21, 20, 19
Internal Complaints Committee	Member	2020, 19, 18
Admission Committee	Member	2020, 19, 18, 17, 10, 09, 08
Academic Planning Committee	Member	2020, 19, 18, 17, 2010
Academic Planning Committee	Convener	2009
Examination Committee	Member	2022, 21, 20, 19
Examination Committee	Convener	2018, 17
Steering Committee	Member	2018
Purchase Committee	Member	2021, 20, 19
CBCS implementation Committee	Convener	2017
ICT & DU Network Committee	Coordinator	2013, 12, 11, 10, 09
Web Team	Convener	2013, 12, 11, 10, 09
Central Evaluation Centre, MAC	Dy. Coordinator	2009
Workload Committee	Member	2016, 15, 2011, 10, 09
Attendance Committee	Convener	2022, 2012
Attendance Committee	Member	2011
Sports Committee	Member	2012, 11
Prospectus Committee	Member	2010, 09
Student Advisory Committee	Member	2008
Library Committee	Member	2008

**Research Guidance**

1. Supervision of awarded Doctoral Thesis
2. Supervision of Doctoral Thesis, under progress **03**
3. Supervision of awarded M.Phil dissertations
4. Supervision of M.Phil dissertations, under progress

**Details of Published Research Papers, Books, Monographs, Reviews, Chapter in Books, Translations and Creative Positons held**

<b>Year of Publication</b>	<b>Title</b>	<b>ISBN No</b>	<b>Paper / Book / Article</b>	<b>Publisher</b>	<b>Author / Co-Author</b>
2020	An Improved Terrain Profiling System with High-Precision Range Measurement Method for Underwater Surveyor Robot	2194-5357	Chapter / Conference paper	Springer	Corresponding Author
2020	Intelligent Energy Information and Management System for Academic Institutes	978-981-15-3634-2	Chapter / Conference paper	Springer	Corresponding Author
2019	Autonomous Landmine Detection Robot: Design and Applications	978-81-940528-0-7	Chapter	Maharaja Agrasen College	Author
2018	A Smart Healthcare Monitoring System Using Smartphone Interface	978-1-5386-3476-9	Research Paper	IEEE	Co-Author
2018	An Intelligent Terrain Profiling Embedded System for Underwater Applications	978-1-5386-0886-9	Research Paper	IEEE	Author
2017	Designing and Developing Energy Information System for Academic Institutes	1818-7803	Research Paper	Journal of Engineering and Applied Sciences	Author
2014	Redefining Curriculum for Inspired Learning	978-81-7273-958-4	Research Paper	Authorspress	Co-Author
2014	Teaching Microprocessor - A Project Based Learning	978-81-7273-958-4	Research Paper	Authorspress	Co-Author
2009	Study of Optical Absorption and Photoluminescence of Quantum Dots of CdS formed in Borosilicate Glass Matrix	1402-4896	Research Paper	Physica Scripta	Co-Author

2009	Compositional Effect on the Optical Absorption and Photoluminescence of CdSxSe1-x Quantum Dots Embedded in Borosilicate Glasses	1793-5350	Research Paper	International Journal of Nanoscience	Co-Author
2009	Two-Photon Absorption in Quantum Dots of CdSxSe1-x using Open Aperture Z-scan and Femtosecond Laser	1793-7094	Research Paper	Nano	Co-Author
2008	Development of Low Size Dispersion, High Volume Fraction and Strong Quantum Confined CdSxSe1-x Quantum Dots Embedded in Borosilicate Glass Matrix and Study of their Optical Properties	1662-8985	Research Paper	Advanced Materials Research	Co-Author
2008	Growth Dynamics of II-VI Compound Semiconductor Quantum Dots Embedded in Borosilicate Glass Matrix	1793-5350	Research Paper	International Journal of Nanoscience	Co-Author
2008	A Novel Method for the Estimation of Surface Recombination Velocity of Polycrystalline CIGS Solar Cells	2470-1564	Research Paper	Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry	Co-Author
2007	Trap Elimination and Reduction of Size Dispersion due to Aging in CdSxSe1-x Quantum Dots	1388-0764	Research Paper	Journal of Nanoparticle Research	Co-Author

2006	Study of CdTe Quantum Dots Grown using a Two-Step Annealing Method	1402-4896	Research Paper	Physica Scripta	Co-Author
2004	An Improved Model to Estimate Temperature Profile of Laser Irradiated Quantum Dot in Glass		Research Paper	Physics of Semiconductor Devices IWPSD-2003	Author
2004	Growth of CdTe and CdSe Quantum Dots in Glass Matrix using Two-Step Annealing Method		Research Paper	Physics of Semiconductor Devices IWPSD-2003	Co-Author
2003	Growth of Group II--VI Semiconductor Quantum Dots with Strong Quantum Confinement and Low Size Dispersion	0370-1972	Research Paper	Physica Status Solidi (B)	Author
2002	Theoretical Model for Estimating Surface Recombination Velocity of Polycrystalline CIGS Solar Cells	0277-786X	Research Paper	SPIE proceedings series	Co-Author
2002	A New Model for the Laser Irradiation Effects on the Quantum Dots in Glass Matrix	0277-786X	Research Paper	SPIE proceedings series	Co-Author

**Participation in conferences, seminars, workshops, refreshers, orientation courses attended, summer institutes etc.**

<b>State/National International</b>	<b>Title</b>	<b>Organization</b>	<b>Period</b>
International	3rd International Conference On Innovative Computing And Communication		2020
International	International Conference on Efficient Solar Power Generation and Energy Harvesting		2019
International	International Conference on Computational intelligence and communication technology		2018

National	National Conference on Fostering Quality Research in Higher Education		2018
International	International Conference on Innovative Research in Engineering and Science		2017
National	National seminar on Engineering Education and Research Seminar on LabVIEW	National Instruments, and AKG Engineering College	2017
State	Faculty development workshop on Digital Circuit Design using VHDL	Zakir Hussain College, University of Delhi	2016
National	National Conference on Striving & Thriving towards Diffusion of Student-driven Research In Science and Technology for Inspired Learning		2014
State	Workshop on 'Introduction to Robotics'	IIT Bombay	2013
State	Academic Congress 'Enabling the Youth: Redefining Education'		2012
National	Refresher Course in Physics & Electronics	CPDHE, DU	2008-09
National	Refresher Course in Physics & Electronics	CPDHE, DU	2007-08
International	International Conference on Materials for Advanced Technologies		2007
International	International Conference on Materials for Advanced Technologies		2007
National	Workshop on 'e- Learning & Content Design'	ILLL, DU	2007
International	International Workshop on the Physics of Semiconductor Devices		2005
International	International Conference on Materials for Advanced Technologies		2005
National	Orientation Course	CPDHE, DU	2005
National	Refresher Course in Physics & Electronics	CPDHE, DU	2004

International	International Workshop on the Physics of Semiconductor Devices		2003
National	NCTP		2002
International	The International Society for Optical Engineering		2002
International	International Workshop on the Physics of Semiconductor Devices		2001

#### **Awards and Distinctions**

- Teaching Excellence Award for Innovation, University of Delhi, 2015
- e-Yantra Robotics Teacher Competition – 2013, Second Prize, organized by ERTS Lab, IIT Bombay, 2014

#### **Public Service/University Service/Consulting Activity**

- Member, Curriculum Review and Feedback Committee, Amity Institute of Renewable and Alternate Energy, Amity University, 2018
- Member, committee for designing of syllabus for “Embedded Systems” paper, Dept of Electronic Science, UDSC, 2014
- Member, committee for designing of syllabus for “Microprocessors & Microcontrollers” paper, Dept of Electronic Science, UDSC, 2010
- Technical Consultancy, Real Time Systems, 2006 to 2016
- Technical Consultancy, Havell’s India Ltd., 1998 to 2002

#### **Professional Societies Memberships**

- Member, IEEE, USA
- Member, Semiconductor Society of India

#### **Projects /Collaborations**

<b>Title of the Project</b>	<b>Major/Minor</b>	<b>Funding Agency</b>	<b>Status</b>	<b>Level</b>
To Design and Develop Low Cost, Self-learning heterogeneous Swarm Robotic Ecosystem	Major	University of Delhi	Completed	University
Problem Based Learning within Simulation Environment	Major	University of Delhi	Completed	University
Fostering Diffusion of Educational Technologies in Undergraduate Learning for the Students, by the Students	Major	University of Delhi	Completed	University

Redefining Curriculum: Integrating ICT for Innovation Eco-System	Major	University of Delhi	Completed	University
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**I certify that the information given above is correct and factual to the best of my knowledge.**

**Date:** 5<sup>th</sup> September 2022

**Signature**\_\_\_\_\_