

**RKDF University, Bhopal**  
**Faculty Profile**



Basic Information				
<b>Name</b>	<b>Dr. Ajay Kumar Barapatre</b>			
<b>DateofBirth</b>	<b>23.06.1985</b>			
<b>Designation</b>	<b>Assistant Professor</b>			
<b>Department</b>	<b>Eelectronics&amp; Communication Engineering</b>			
<b>Experience</b>	<b>11 Years</b>			
<b>EmailID</b>	<b>barapatre.ajay@yahoo.co.in</b>			
<b>Contact No</b>	<b>9827433714</b>			
EducationalQualifications				
Description	Year	%	Institute/University	
(UG) B.E.	2009	65.66	<b>RGPV, BHOPAL</b>	
(PG) M. Tech (Mrico Elec. & VLSI Design)	2014		<b>RGPV, BHOPAL</b>	
M. Phil.	-	-	-	
(Ph. D.) ECE	2024	Awarded	<b>RKDF, University BHOPAL</b>	
Post Doctorate	-	-	-	
NET Qualified/GATE	-	-	-	
Experience Detail				
Experience (Teaching/Research )	Designation	Duration		Name of Institute/University
		From	To	
<b>Teaching</b>	Assistant Professor	01.07.2014	05.09.2018	<b>Vedica institute of Technology, RKDF University, Bhopal</b>
<b>Research</b>	Ph.D. Scholar	06.09.2018	28.06.2023	<b>RKDF University, Bhopal</b>
<b>Teaching</b>	Assistant Professor	29.06.2023	Till Date	<b>Vedica institute of Technology, RKDF University, Bhopal</b>

<b>Publications</b>			
<b>No. of Papers Published</b>	<b>19</b>		
<b>No. of Books Published</b>	<b>0</b>		
<b>Books Chapters Published</b>	<b>0</b>		
<b>No. of Patents Published/Grant</b>	<b>3</b>		
<b>Ph. D/M. Phil Project supervised</b>			
<b>ResearchProgram</b>	<b>Award</b>	<b>Under Supervision</b>	<b>Nameof University</b>
<b>Ph.D (Provide detail i.e. name, title etc) Mr. Abhinav Shukla</b>	0	1	<b>RKDF, UNIVERSITY, Bhopal</b>
<b>M.Phil</b>	-	-	-
<b>PG Thesis/Dissertation</b>	20	-	<b>RKDF, UNIVERSITY, Bhopal</b>
<b>Area of Expertise (100 words)</b>			
<b>IOT, Image Processing, Communication, Antenna , VLSI</b>			
<b>Awardand Achievement</b>			
<b>Name of Award</b>	<b>Description(WithcertifiedofCopy award)</b>		
<b>National</b>	-		
<b>International</b>	-		
<b>Conference/Seminar/Workshops/FDP</b>			
<b>Description</b>	<b>No.</b>		
<b>Conference/Seminar p a p e r presentation</b>	<b>5</b>		
<b>Conference/Seminarattended/ organized</b>	<b>1</b>		
<b>Workshopattended/organized</b>	<b>1</b>		
<b>FDPAttended/organized</b>			
<b>Research Project</b>			
<b>Nameof Project</b>	<b>Funding Agencies</b>	<b>Amount</b>	

- **Anyother Achievement**



## Annexure-A

### List of Publications

1	Ajay Kumar Barapatre, Ritesh Sadiwala “Energy and resources management for Multiple Access in Massive IoT network” Journal of Integrated Science and Technology, ISSN: 2321-4635, J. Integr. Sci. Technol. 2023, 11(3), 518, URN: NBN:sciencein.jist.2023.v11.518.	<a href="https://pubs.thesciencein.org/journal/index.php/jist/article/download/a518/365">https://pubs.thesciencein.org/journal/index.php/jist/article/download/a518/365</a>
2	Ajay K Barapatre, Ritesh Sadiwala “Resource Allocation in Massive IoT-Edge Network with Optimal Path Planning and Scheduling” Vol 14 No 04 (2022): SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology, Print ISSN: 2229-7111 Online ISSN: 2454-5767	<a href="https://smsjournals.com/index.php/SAMRIDDHI/article/view/2990/1492">https://smsjournals.com/index.php/SAMRIDDHI/article/view/2990/1492</a>
3	Vijay Prabhat, Ajay Barapatre “Review Paper: Picture Steganography Is the Science of Data Protection” SHODHSANGAM vol.3 issue 5. ISSN (online)- SEPTEMBER 2020, Page No. 87-95	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0304.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0304.pdf</a>
4	Umrazainab , Ajay Barapatre “Global Mean Square Error Optimization for Improvement In Response Time For DAIRKF Target Tracking Algorithm” SHODH SANGAM - A RKDF University Journal of Science and Engineering, Vol.-03, No.-06, Nov-2020, Page 151-156 ISSN No. 2581-5806.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0336.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0336.pdf</a>
5	Umrazainab, Ajay Barapatre “An Exploratory Survey on Multiple Target Tracking Algorithms Using DAIRKF” The Splendid Journals Vol. 3, Issue 6, December 2020 Page 5-9.	<a href="https://thesplendidjournals.com/download/an-%d0%b5xploratory-surv%d0%b5y-on-multiple-target-tracking/">https://thesplendidjournals.com/download/an-%d0%b5xploratory-surv%d0%b5y-on-multiple-target-tracking/</a>
6	Shekhar Suman , Ajay Barapatre “Image Transform Using 2-D DCT Architecture For JPGE Encoder” SHODH SANGAM - A RKDF University Journal of Science and Engineering, Vol.-03, No.-06, Nov-2020, Page 157-161 ISSN No. 2581-5806.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0134.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0134.pdf</a>
7	ShekharSuman, Ajay Barapatre “A Survey Paper on Image Transformation 2-D VLSI Architecture for DCT” The Splendid Journals Vol. 4, Issue 1, February 2021 pages 5-10.	<a href="https://thesplendidjournals.com/download/a-survey-paper-on-image-transformation-2d-vlsi-architecture-for-dct/">https://thesplendidjournals.com/download/a-survey-paper-on-image-transformation-2d-vlsi-architecture-for-dct/</a>
8	ShazliParwezMallick , Ajay Kumar Barapatre “Analysis on Deep Learning Compressed Sensing in WBAN” SHODH SANGAM - A RKDF University Journal of Science and Engineering, Vol.-05, No.-03, June-2022, Page 52	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5307.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5307.pdf</a>
9	ShazliParwezMallick , Ajay Kumar Barapatre “An Algorithm for Recovering Data for e-Health Applications using Compressed Sensing” Research Journal of Engineering Technology and Medical Sciences (ISSN: 2582-6212), Volume 05, Issue 02, June-2022.	<a href="http://www.rjetm.in/RJETM/Vol05_Issue02/An%20Algorithm%20for%20Recovering%20Data%20for%20eHealth%20Applications%20using%20Compressed%20Sensing.pdf">http://www.rjetm.in/RJETM/Vol05_Issue02/An%20Algorithm%20for%20Recovering%20Data%20for%20eHealth%20Applications%20using%20Compressed%20Sensing.pdf</a>
10	RenukaMatbarwala, Ajay Kumar Barapatre “A Systematic Overview on Wireless Body Area Network for Healthcare Emonitoring System” Research Journal of Engineering Technology and Medical Sciences (ISSN: 2582-6212), Volume 04, Issue 04, December-2021.	<a href="http://www.rjetm.in/RJETM/Vol04_Issue04/A%20Systematic%20Overview%20on%20Wireless%20Body%20Area%20Network%20for%20Heal">http://www.rjetm.in/RJETM/Vol04_Issue04/A%20Systematic%20Overview%20on%20Wireless%20Body%20Area%20Network%20for%20Heal</a>

		<a href="#">thcare%20Emonitoring%20System.pdf</a>
11	Ravi Chandra Prativa , Ajay Kumar Barapatre “A Survey Paper on Authentication and Protection of Data based on Digital Watermarking scheme” SHODH SANGAM - A RKDF University Journal of Science and Engineering, Vol.-05, No.-06, December-2022, Page 17-21, ISSN No. 2581-5806.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5603.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5603.pdf</a>
12	Ravi Chandra Prativa , Ajay Kumar Barapatre “Optimization of Encoded Hybrid Digital Watermarking Schemebased on Haar- 2D DWT and SVD for Still Images” Research Journal of Engineering Technology and Management (ISSN: 2582-0028), Volume 05, Issue 04, December-2022.	<a href="http://www.rjetm.in/RJETM/Vol05_Issue04/Analysis%20of%20OFDM%20System%20Using%20Smoothing%20Filter.pdf">http://www.rjetm.in/RJETM/Vol05_Issue04/Analysis%20of%20OFDM%20System%20Using%20Smoothing%20Filter.pdf</a>
13	Krishna Kumar Sahu, Ajay Barapatre “An Exploratory Survey of Engineering Attacks on Social Security Networks” SHODH SANGAM - A RKDF University Journal of Science and Engineering, ISSN No. 2581-5806 ,Vol.-03, No.-06, Nov-2020, Page 56-64.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5603.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS5603.pdf</a>
14	Krishna Kumar Sahu, Ajay Barapatre “A Machine Learning Approach for Detection and Analysis of Malicious URLs” SHODH SANGAM - A RKDF University Journal of Science and Engineering, ISSN No. 2581-5806 , Vol.-02, No.-03, April-2020, Page 76.	<a href="https://www.shodhsangam.rkdf.ac.in/papers/SS0324.pdf">https://www.shodhsangam.rkdf.ac.in/papers/SS0324.pdf</a>
15	Bittu Pandey , Ajay Kumar Barapatre “A Survey Paper on Channel Estimation Schemes in OFDM System” SHODH SANGAM - A RKDF University Journal of Science and Engineering, Vol.-05, No.-03, June-2022, Page 61 - 65 ISSN No. 2581-5806.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0415.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0415.pdf</a>
16	BittuPandey , Ajay Kumar Barapatre “Reduced BRE in OFDM System using ANN Technique for Optical Communication” Research Journal of Engineering Technology and Medical Sciences (ISSN: 2582-6212), Volume 05, Issue 02, June-2022.	<a href="http://www.rjetm.in/RJETM/Vol05_Issue02/Reduced%20BRE%20in%20OFDM%20System%20using%20ANN%20Technique%20for%20Optical%20Communication.pdf">http://www.rjetm.in/RJETM/Vol05_Issue02/Reduced%20BRE%20in%20OFDM%20System%20using%20ANN%20Technique%20for%20Optical%20Communication.pdf</a>
17	Balaram Baliar Singh, Ajay Kumar Barapatre “High- Intensity Information Security Using Adaptive Window-Size Support SDSA Illustration Steganography” SHODH SANGAM -- A RKDF University Journal of Science and Engineering, ISSN No. 2581-5806 Vol.-04, No.-02, April-2021, Page 41-45.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0361.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0361.pdf</a>
18	Balaram Baliar Singh, Ajay Kumar Barapatre “An Exploratory Survey on Data Protection Using Data Steganography” SANGAM -- A RKDF University Journal of Science and Engineering, ISSN No. 2581-5806, Vol.-04, No.-01, Feb-2021, Page 72-76.	<a href="http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0360.pdf">http://shodhsangam.rkdfuniv.in/Content/Documents/papers/SS0360.pdf</a>
19	Abhay Kumar, Ajay Barapatre “A Brief Review on Fully Pipelined And Multiplierless 2D DCT/IDCT JPEG Architecture” SANGAM -- A RKDF University Journal of Science and Engineering, ISSN No. 2581-5806, Vol.-03, No.-02, March-2020, Page 22-26.	<a href="https://www.shodhsangam.rkdf.ac.in/papers/SS0275.pdf">https://www.shodhsangam.rkdf.ac.in/papers/SS0275.pdf</a>

### **No. of Patents Published**

1. Wireless Power Transfer Plans For Installable Biomedical Components, Application No. - 202321064948 A.
2. Method And System For Secure Key Exchange In Internet Protocol Television (IPTV) Network. Application No.- 20221007499.
3. AI Based Portable Wireless Communication Device.