

**L. D. College of Engineering, Ahmedabad**  
**Research Paper Publications**

Sr. No.	Dept.	Faculty Name	Paper Title, Name of the Journal /Conference, Publication Month, Publication Year	Link of the Paper
1	Sciences and Humanities	Dr. Sunil Chandak	The Marichev-Saigo-Maeda Fractional Calculus Operators Pertaining to the v -Function, Abstract and Applied Analysis, August, 2021	<a href="https://doi.org/10.1155/2021/9961013">https://doi.org/10.1155/2021/9961013</a>
2	Sciences and Humanities	Dr. Jignesh Hirpara	Anticorrosive Behavior Enhancement of Stainless Steel 304 through Tantalum-Based Coatings: Role of Coating Morphology, Journal of Materials Engineering and Performance, February, 2021	<a href="https://doi.org/10.1007/s11665-021-05542-5">https://doi.org/10.1007/s11665-021-05542-5</a>
3	Sciences and Humanities	Dr. Jignesh Hirpara	Investigation of optical and anti-corrosive properties of reactively sputtered vanadium oxynitride thin films, Materials Today: Proceedings, August, 2021	<a href="https://doi.org/10.1016/j.matpr.2021.02.445">https://doi.org/10.1016/j.matpr.2021.02.445</a>
4	Sciences and Humanities	Ms. Vaishali Adhwaryu	Effect of AgI in silver borophosphate glass system, Materials Science and Engineering: B, January, 2021	<a href="https://doi.org/10.1016/j.mseb.2020.114857">DOI:10.1016/j.mseb.2020.114857</a>
5	Sciences and Humanities	Ms. Vaishali Adhwaryu	Influence of lithium iodide on dielectric properties of lithium borophosphate glass system, Advanced Materials and Radiation Physics (AMRP-2020), February, 2021	<a href="https://doi.org/10.1063/5.0053265">DOI:10.1063/5.0053265.</a>
6	Sciences and Humanities	Ms. Hiral Raval	Growth, experimental and theoretical analysis of physical properties of an organic NLO 2Methylimidazole L-Tartrate (2MILT) crystal, JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SEPTEMBER, 2021	10.1016/j.jpcs.2020.109908
7	Sciences and Humanities	Parth Raval	Growth, experimental and theoretical analysis of physical properties of an organic NLO 2Methylimidazole L-Tartrate (2MILT) crystal, JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SEPTEMBER, 2021	10.1016/j.jpcs.2020.109908

8	Automobile	Prof. R.J. Jani	Experimental investigation of spark plug gap on performance and emission of single cylinder 4S SI engine with Hydroxygen as an additive, Proceedings of the Indian National Science Academy, July, 2021	<a href="http://link.springer.com/article/10.1007/s43538-021-00040-7">http://link.springer.com/article/10.1007/s43538-021-00040-7</a>
9	Biomedical Engineering	Prof. Bhavesh Parmar	Brain Tumor Segmentation and Survival Prediction using Patch based Modified UNET, Springer Lecture note in Computer Science, March, 2021	<a href="https://link.springer.com/chapter/10.1007/978-3-030-72087-2_35">https://link.springer.com/chapter/10.1007/978-3-030-72087-2_35</a>
10	Chemical	Dharmendra Mandaliya	In situ microbial and phytoremediation of crude oil contaminated soil by Cynodon sp, Int J Phytoremediation, July, 2021	<a href="https://doi.org/10.1080/15226514.2021.1932731">https://doi.org/10.1080/15226514.2021.1932731</a>
11	Civil Engineering	R.N.SHUKLA	Analysis of passenger trips by public transport-Bus transit in West Zone of Ahmedabad, Psychology and Education, JUNE, 2021	<a href="http://psychologyandeducation.net/pae/index.php/pae/article/view/5141">http://psychologyandeducation.net/pae/index.php/pae/article/view/5141</a>
12	Civil Engineering	R.N.SHUKLA	Analysis of parameters affecting private vehicle ownership by citizens in urban area, Psychology and Education, JUNE, 2021	<a href="http://psychologyandeducation.net/pae/index.php/pae/article/view/5131">http://psychologyandeducation.net/pae/index.php/pae/article/view/5131</a>
13	Civil Engineering	Rajesh Jain	Flow behavior around spur dikes founded in cohesive sediment mixtures, Water Management Journal, February, 2021	<a href="https://doi.org/10.1680/jwama.19.00022">https://doi.org/10.1680/jwama.19.00022</a>
14	Civil Engineering	Dr. M. M. Shaikh	Automatic calibration of swat hydrological model by SUFI-2 algorithm, International Journal of Hydrology Science and Technology., , 2021	1. 1. <a href="https://doi.org/10.1504/IJHST.2021.10036580">10.1504/IJHST.2021.10036580</a>
15	Civil Engineering	Dr. M. M. Shaikh	A Framework to perform Land-use Change Detection of the Watershed Using GeoSpatial Techniques, Journal of Xidian University (scopus indexed) Vol. 14(10), p. 618-623, , 2021	<a href="https://doi.org/10.37896/jxu14.10/066">https://doi.org/10.37896/jxu14.10/066</a>
16	Civil Engineering	Dr. M. S. Gadhavi	Quantifying seismic induced damage at ancient site Manjal located in Kachchh Mainland region of Gujarat, India, Journal of Archaeological Science: Reports, 2020, 33, 102486, , 2021	

17	Computer Engineering	Prof. Hetal A. Joshiyara	Handling Non-Relational Databases on Big Query with Scheduling Approach and Performance Analysis, IEEE Xplore, April, 2021	<a href="https://ieeexplore.ieee.org/document/8697561">https://ieeexplore.ieee.org/document/8697561</a>
18	Computer Engineering	Prof. Hetal A. Joshiyara	Multi-Objective Based Integrated Task Scheduling In Cloud Computing, IEEE Xplore , September, 2021	<a href="https://ieeexplore.ieee.org/document/8821912">https://ieeexplore.ieee.org/document/8821912</a>
19	Computer Engineering	Prof. Jay Dave	SPARK: Secure Pseudorandom Key-based Encryption for Deduplicated Storage., Computer Communications 154 (2020): 148-159, Elsevier., March, 2021	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0140366419305316">https://www.sciencedirect.com/science/article/abs/pii/S0140366419305316</a>
20	EC	Prof. (Dr.) Sanjay Prajapati	High Performance Computing-in-Memory Architecture based on Single and Multilevel Cell Differential Spin Hall MRAM, IEEE Transactions on Magnetics, March, 2021	<a href="https://ieeexplore.ieee.org/abstract/document/9388709">https://ieeexplore.ieee.org/abstract/document/9388709</a>
21	EC	Prof. (Dr.) Sanjay Prajapati	High Performance Computing-in-Memory Architecture using STT/SOT-based Series Triple-Level Cell MRAM, IEEE Transactions on Magnetics, May, 2021	<a href="https://ieeexplore.ieee.org/abstract/document/9443184">https://ieeexplore.ieee.org/abstract/document/9443184</a>
22	EC	Dr. Nirali kotak	Designing and simulation of 30Gbps FSO communication link under different atmospheric and cloud conditions, International Journal of Engineering Trends and Technology, May, 2021	<a href="http://ijettjournal.org/archive/ijett-v69i5p229">http://ijettjournal.org/archive/ijett-v69i5p229</a>
23	EC	Dr. Nirali kotak	Critical review on effect of 5G technology on covid-19 and human health issues, Journal of Scientific Research, May, 2021	<a href="https://www.banglajol.info/index.php/JSR/article/view/49514">https://www.banglajol.info/index.php/JSR/article/view/49514</a>
24	EC	Prof. (Dr.) Bhavin S.Sedani	Designing and simulation of 30Gbps FSO communication link under different atmospheric and cloud conditions, International Journal of Engineering Trends and Technology, May, 2021	<a href="http://ijettjournal.org/archive/ijett-v69i5p229">http://ijettjournal.org/archive/ijett-v69i5p229</a>
25	EC	Prof. (Dr.) Bhavin S.Sedani	Critical review on effect of 5G technology on covid-19 and human health issues, Journal of Scientific Research, May, 2021	<a href="https://www.banglajol.info/index.php/JSR/article/view/49514">https://www.banglajol.info/index.php/JSR/article/view/49514</a>

26	EC	Dr. Nirali kotak	Implementation of Pre-trained Deep Learning Model for Dog Breed Classification, Turkish Journal of Computer and Mathematics Education, vol. 12, No. 7, pp. 555-558, April, 2021	<a href="https://turcomat.org/index.php/turkbilmat/article/view/2620">https://turcomat.org/index.php/turkbilmat/article/view/2620</a>
27	EC	Dr. Nirali kotak	Evaluation of Massive MIMO Technology Based on Impacts of 5G Radiation on Human Health and Environment, Turkish Journal of Physiotherapy and Rehabilitation, ISSN:2651-4451, vol 32, issue. 3, March, 2021	<a href="https://turkijphysiotherrehabil.org/pub/32-3.html">https://turkijphysiotherrehabil.org/pub/32-3.html</a>
28	EC	Dr. Bhavin Sedani	Implementation of Pre-trained Deep Learning Model for Dog Breed Classification, Turkish Journal of Computer and Mathematics Education, vol. 12, No. 7, pp. 555-558, April, 2021	<a href="https://turcomat.org/index.php/turkbilmat/article/view/2620">https://turcomat.org/index.php/turkbilmat/article/view/2620</a>
29	EC	Dr. Bhavin Sedani	Evaluation of Massive MIMO Technology Based on Impacts of 5G Radiation on Human Health and Environment, Turkish Journal of Physiotherapy and Rehabilitation, ISSN:2651-4451, vol 32, issue. 3, March, 2021	<a href="https://turkijphysiotherrehabil.org/pub/32-3.html">https://turkijphysiotherrehabil.org/pub/32-3.html</a>
30	EC	Dr. A. J. Kshatriya	Design & simulation of high temperature blackbody source for calibration of Michelson interferometer ECE diagnostic, Fusion Engineering and design, November, 2021	<a href="https://doi.org/10.1016/j.fusengdes.2021.112752">https://doi.org/10.1016/j.fusengdes.2021.112752</a>
31	EC	Prof. Bhavin S. Sedani	Performance analysis of massive multiple input multiple output for high speed railway, International Journal of Electrical and Computer Engineering this link is disabled, December, 2021	<a href="http://ijece.iaescore.com/index.php/IJECE/article/view/24329/15235">http://ijece.iaescore.com/index.php/IJECE/article/view/24329/15235</a>
32	EC	Dr. C.H. Vithalani	FPGA Design of a Variable Step-Size Variable Tap Length Denlms Filter with Hybrid Systolic-Folding Structure and Compressor-Based Booth Multiplier for Noise Reduction in Ecg Signal, Circuits, Systems, and Signal Processing -Scopus ISSN 0278-081X, December, 2021	<a href="https://doi.org/10.1007/s00034-021-01933-0">https://doi.org/10.1007/s00034-021-01933-0</a>

33	EC	Dr. Nirali kotak	HARDWARE IMPLEMENTATION OF CNN BASED SPEECH ENHANCEMENT TECHNIQUE, Stochastic Modeling & Applications, July, 2021	<a href="https://www.mukpublications.com/v25-3-si.php">https://www.mukpublications.com/v25-3-si.php</a>
34	Environmental Engineering	Bina Birenkumar Patel	Hydrodynamics of hybrid upflow anaerobic sludge blanket reactors using tracer studies, Environmental Challenges, Dec, 2021	<a href="https://doi.org/10.1016/j.envc.2021.100358">https://doi.org/10.1016/j.envc.2021.100358</a>
35	Environmental Engineering	Prof. G. H. Ban	Studies on measurement of PM2.5 and PM10 employing online method: A case of coal fired boiler stack, Research Journal of Chemistry and Environment, May, 2021	<a href="https://worldresearchersassociations.com/Archives/RJCE/Vol(25)2021/May%202021/Studies%20on%20measurement%20of%20PM2.5%20and%20PM10%20employing.pdf">https://worldresearchersassociations.com/Archives/RJCE/Vol(25)2021/May%202021/Studies%20on%20measurement%20of%20PM2.5%20and%20PM10%20employing.pdf</a>
36	IC Engineering	Dr. Ankit K. Shah	Design bounded robust controller using HJB solution for the Nonlinear Hybrid Dynamical Systems, European Journal of Control 60(4), May, 2021	DOI: 10.1016/j.ejcon.2021.04.001
37	IC Engineering	D. V. Raninga	Explicit nonlinear predictive control algorithms for Laguerre filter and sparse least square support vector machine-based Wiener model, Transactions of the institute of measurement and control, vol. 43, issue 4, 2021, February, 2021	<a href="https://journals.sagepub.com/toc/tima/43/4">https://journals.sagepub.com/toc/tima/43/4</a>
38	IC Engineering	Dr. Ankit K. Shah	Digital multiband filter design with power spectrum analysis for Electrocardiogram signals, International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT, August, 2021	<a href="https://doi.org/10.1109/RTEICT52294.2021.9573714">DOI:10.1109/RTEICT52294.2021.9573714</a>
39	IC Engineering	Dr. Ankit K. Shah	Breast Mass Classification with Deep Transfer Feature Extractor Model and Random Forest Classifier, International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT, August, 2021	<a href="https://doi.org/10.1109/RTEICT52294.2021.9573909">DOI:10.1109/RTEICT52294.2021.9573909</a>

40	IC Engineering	Vandana Patel	Digital multiband filter design with power spectrum analysis for Electrocardiogram signals, International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT, August, 2021	<a href="https://doi.org/10.1109/RTEICT52294.2021.9573714">DOI:10.1109/RTEICT52294.2021.9573714</a>
41	IC Engineering	Dr.Manish Thakker	“A Decoupler Assisted Optimized Controller Design for Greenhouse System”., International Journal of Automation and Control,, 2021	<a href="http://dx.doi.org/10.1504/ijaac.2022.10041889">http://dx.doi.org/10.1504/ijaac.2022.10041889.</a>
42	Information Technology	Dr. Mehul C Parikh	Brain Tumor Segmentation and Survival Prediction using Patch based Modified UNET, Springer Lecture note in Computer Science, 44276, 2021	<a href="https://www.springerprofessional.de/en/brain-tumor-segmentation-and-survival-prediction-using-patch-bas/19007118">https://www.springerprofessional.de/en/brain-tumor-segmentation-and-survival-prediction-using-patch-bas/19007118</a>
43	Information Technology	Prof. Ankit Patel(s)	An Improved Dictionary Based Genre Classification Based on Title and Abstract of E-book Using Machine Learning Algorithms, International Conference on Computing, Communications and Cyber Security(IC4S)[LNNS SPRINGER”., 44317, 2021	<a href="https://link.springer.com/book/10.1007/978-981-16-0733-2">https://link.springer.com/book/10.1007/978-981-16-0733-2</a>
44	Information Technology	Prof. Pradip Patel	Transformation Invariant Real-time Recognition of Indian Sign Language using Feature Fusion, International Journal of Next-Generation Computing, 44378, 2021	<a href="http://perpetualinnovation.net/ojs/index.php/ijngc/article/view/633">http://perpetualinnovation.net/ojs/index.php/ijngc/article/view/633</a>
45	Information Technology	Dr. Hiteishi Diwanji	Effect of Activation function in speech emotion recognition on the Ravdess Dataset, Journal(Reliability:Theory and Applications) , sept-21, 2021	<a href="http://www.gnedenko.net/RTA/index.php/rta/article/view/773/697">http://www.gnedenko.net/RTA/index.php/rta/article/view/773/697</a>
46	Mechanical	Dr. B. K. Patel	The Small Punch Test a Viable Alternate for In-service Components Preserved Strength Estimation, Journal of The Institution of Engineers (India): Series C, July, 2021	<a href="https://link.springer.com/article/10.1007/s40032-021-00728-1">link.springer.com/article/10.1007/s40032-021-00728-1</a>

47	Mechanical	Dr. K G Dave and Prof J G parmar	Multi Objective Optimization of Machining Parameters in End Milling of AISI1020, International Journal of Innovative Technology and Exploring Engineering (IJITEE)', ISSN: 2278-3075 (Online), June , 2021	
48	Mechanical	Dr. K G Dave and Prof Maulik Patel	Genetic Algorithm-Based Optimization of Friction Stir Welding Process Parameters on AA7108, International Journal of Innovative Technology and Exploring Engineering (IJITEE)', ISSN: 2278-3075 (Online), June , 2021	Blue eye intelligence Engineering and science publications
49	Mechanical	Dr. K G Dave and Prof Maulik Patel	Studies the twin stir technology and welded parameters of friction stir welding on AA7108 T79, Journal of Xi'an University of Architecture & Technology, June , 2021	
50	Mechanical	M K Vyas	Circularity tactic comport sustainable development Review, AORBI 2021, December, 2021	<a href="https://doi.org/10.1007/978-981-19-8012-1">https://doi.org/10.1007/978-981-19-8012-1</a>
51	Mechanical	Dr V B Patel	Structural Shape Optimization by Coupled FE-MM and Swarm Intelligence-Based Algorithm, International Journal of Computational methods, , 2021	DOI: <a href="https://doi.org/10.1142/S0219876220500486">10.1142/S0219876220500486</a>