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**SINHGAD TECHNICAL EDUCATION SOCIETY'S  
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Gat No. 309/310, off Mumbai Pune Expressway Kusgaon (Bk), Lonavala Pune – 410401  
website: sit.sinhgad.edu

**3.3.2 Tabulated list of research papers published in Journals notified on UGC website**

Sl. No.	Id No	Name of faculty author	Name of other contributors/guide	Title of paper	Name of journal	Volume	Publication Date	Year of publication	Is it listed in UGC Care list/Scopus /Web of Science/other, mention	Department of the teacher	Link to article/paper/abstract of the article
1	444484419816	Ms. Lohar Shailaja Nitin	Dr. Sachin D. Babar	A proposed approach for Digital Identity management using Self Sovereign Identity	International Journal of Next-Generation Computing	ISSN: 0976-5034, Vol 12 No.(2)	6/4/2021	2021-22	Web of Science	Computer Engineering	<a href="http://perpetualinnovation.net/ojs/index.php/ijngc/article/view/767">http://perpetualinnovation.net/ojs/index.php/ijngc/article/view/767</a>

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2	673969415361	Dr. Babar Sachin Dilip	Umakant L. Tupe, Sonali P. Kadam, Parikshit N. Mahalle	Research perspective on energy-efficient protocols in IoT: emerging development of green IoT	International Journal of Pervasive Computing and Communications	ISSN: 1742-7371, Vol. 18 No. 2, pp. 145-170	8/16/2021	2021-22	UGC care	Computer Engineering	<a href="https://www.emerald.com/insight/content/doi/10.1108/IJPC-10-2019-0079/full/html">https://www.emerald.com/insight/content/doi/10.1108/IJPC-10-2019-0079/full/html</a>

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3	267858607478	Dr. Mantri Dnyaneshwar Shriranglal	Rahul Gupta, Shrutika Sorte, Aman Kumar	IoT based Thief Detection and Surveillance System using Raspberry Pi	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN: 2582-3930, Vol. 5 Issue 06	6/6/2021	2021-22	UGC Care Journal	Electronics Engineering	<a href="https://ijsrem.com/volume-05-issue-06-june-2021/">https://ijsrem.com/volume-05-issue-06-june-2021/</a>

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4	267858607478	Dr. Mantri Dnyaneshwar Shriranglal	Pranay Doble, Shradha Parkhi, Anagha Bodhe	Design and Development of a Two Wheeled Self Balancing Robot.	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN: 2582-3930, Vol. 5 Issue 07	6/6/2021	2021-22	UGC Approved	Electronics Engineering	<a href="http://ijsrem.com/volume-05-issue-06-june-2021/">http://ijsrem.com/volume-05-issue-06-june-2021/</a>

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5	366498253041	Mr. Bhosale Manoj Krishna	Shivam Kumar, Mamoon Reyaz, Zawed Ansari	IoT Based Air Pollution Monitoring System	International Journal of All Research Education and Scientific Methods (IJARESM)	ISSN: 2455-6211	6/6/2021	2021-22	UGC approved	Electronics Engineering	<a href="http://www.ijaresm.com/iot-based-air-pollution-monitoring-system">http://www.ijaresm.com/iot-based-air-pollution-monitoring-system</a>

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6	267858607478	Dr. Mantri Dnyaneshwar Shriranglal	Nandkumar Kulkarni, Neeli Rashmi Prasad, Ramjee Prasad	EEHRP: Energy Efficient Hybrid Routing Protocol for Wireless Sensor Networks	Journal of Mobile Multimedia	ISSN: 1550-4654 _online 2021: Vol 17 Iss 1-3	3/2/2021	2021-22	scopus indexed	Electronics Engineering	<a href="https://doi.org/10.13052/jmm1550-4646.1713">https://doi.org/10.13052/jmm1550-4646.1713</a>

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7	720043034507	Ms. Shende Dipali Kedar	Shivangee Behera, Simran Biramwar, Priyesh Kumar	Aquaponics System For Modern India	Journal of Emerging Technologies and Innovative Research- UGC Approved Journal No: 63975	ISSN: 2349-5162 , Volume 8, Issue 5	5/5/2021	2021-22	UGC approved	Electronics Engineering	<a href="https://www.jetir.org/papers/JETIR2105724.pdf">https://www.jetir.org/papers/JETIR2105724.pdf</a>

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8	864651570359	Ms. More Shital Kiran	Ritvik Bahirwar, Parimal Gavali, Apurva Patil	Spying RoboCrowler	PENSEE JOURNAL	ISSN: 0031-4773 Volume 51, Issue 3	2021	2021-22	SCOPUS ACTIVE AND GROUP- II APPROVE D JOURNAL	Electronics Engineering	<a href="https://app.box.com/s/hkt4nazoh7ykv85sfag5mukrhau4mQja">https://app.box.com/s/hkt4nazoh7ykv85sfag5mukrhau4mQja</a>

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9	466877927131	Ms. Baste Vaishali Sandeep	Dnyaneshwar Tandale, Darshan Wankhede	Artificial Intelligence Based Compact Sanitization Robot	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)	ISSN: 2278-1021 Vol. 10, Issue 5	5/5/2021	2021-22	UGC approved	Electronics Engineering	<a href="https://ijarcce.com/wp-content/uploads/2021/06/IJARCCE.2021.105132.pdf">https://ijarcce.com/wp-content/uploads/2021/06/IJARCCE.2021.105132.pdf</a>

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10	466877927131	Ms. Baste Vaishali Sandeep	Shubhangi Gaikar, Mayur Borkar, Hemant Gatade and Rushikesh Bhojar	Survey on development of convenient health monitoring system for pregnant women in rural area	International journal of computing and Artificial Intelligence	P- ISSN:2707-6571,E- ISSN:2707-658X Vol. 2, Issue 1	21/01/2021	2021-22	Peer Reviewed Journal, Refereed Journal, Indexed Journal	Electronics Engineering	<a href="https://www.computersciencejournals.com/ijcai/article/26/2-1-4-415.pdf">https://www.computersciencejournals.com/ijcai/article/26/2-1-4-415.pdf</a>

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11	466877927131	Ms. Baste Vaishali Sandeep	Ashwin Kumar Mandal, Ayush Kumar, Piyush Ranjan	Automobile Automation	International Research Journal of Modernization in Engineering Technology and Science Volume:03/ Issue:06/	e-ISSN: 2582-5208 Volume:03/ Issue:06	6/1/2021	2021-22	other	Electronics Engineering	<a href="https://www.irjmets.com/uploadedfiles/paper/volume3/issue_6_june_2021/12532/1628083499.pdf">https://www.irjmets.com/uploadedfiles/paper/volume3/issue_6_june_2021/12532/1628083499.pdf</a>

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12	366498253041	Mr. Bhosale Manoj Krishna	Ajay Thorat, Dhanashree Shete, Tanmay Tikekar	Agrobot	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)	ISSN 2581-9429 Volume 6, Issue 1	6/1/2021	2021-22	other	Electronics Engineering	<a href="http://ijarsct.co.in/Paper1463.pdf">http://ijarsct.co.in/Paper1463.pdf</a>

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13	962130900259	Ms. Jadhav Supriya Bhushan	Apurva Lawate, Nomesh Katare, Salil Hoskeri, Santosh Takle	Cricket Analysis and Prediction of projected Score and Winner Using Machine Learning	International Journal of Advanced Research in Computer & Communication Engg (IJARCCE)	ISSN: 2278-1021 Vol. 10, Issue 2	2/2/2021	2021-22	UGC CARE	Information Technology	<a href="https://ijarcce.com/papers/cricket-analysis-and-prediction-of-projected-score-and-winner-using-machine-learning/">https://ijarcce.com/papers/cricket-analysis-and-prediction-of-projected-score-and-winner-using-machine-learning/</a>

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14	218149403324	Ms. Tonde Vandana Prakash	Sanket Kankate, Gagan Pandita, Akash Kumar, Pranay Kothari	Survey on Aspect Based Sentiment Classification Using Machine Learning Framework	International Journal of Innovative Research in Science Engineering & Technology (IJIRSET)	e-ISSN: 2319-8753 Volume 10, issue 6	6/6/2021	2021-22	UGC CARE	Information Technology	<a href="http://www.ijirset.com/upload/2021/june/18_Survey_NC1.pdf">http://www.ijirset.com/upload/2021/june/18_Survey_NC1.pdf</a>

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15	826829795117	Ms. Ware Swapnali Balasaheb	Gaurav Kachwaha, Kajal Jaiswal, Ruchika Mahajan, Madhuri Maske	Breast Cancer Detection Using Machine Learning Algorithms	International Journal of Advanced Research in Computer & Communication Engg (IJARCCE)	ISSN: 2278-1021 Page No12-15, Vol. 10, Issue 3,	3/3/2021	2021-22	UGC CARE	Information Technology	<a href="https://ijarcce.com/papers/breast-cancer-detection-using-machine-learning-algorithms/">https://ijarcce.com/papers/breast-cancer-detection-using-machine-learning-algorithms/</a>

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16	799944603336	Mr. Badodekar Rakesh Subhash	Sameer Gedam, Shubham Anand, Priya Pal, Ashutosh Janbandhu	Informative Based Website Development Using Voice Commands	International Journal of Advances in Engineering Research (IJAER) 2021	e-ISSN: 2231-5152, p-ISSN: 2454-1796, Vol. No. 21, Issue No. IV	4/1/2021	2021-22	UGC CARE	Information Technology	<a href="https://www.ijaer.com/admin/upload/09%20Sameer%20Gedam%2001151.pdf">https://www.ijaer.com/admin/upload/09%20Sameer%20Gedam%2001151.pdf</a>

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17	556402041902	Mr. Ghodichor Ferendrakumar Shrawan	Pranav Thigle, Subodh Nadkar, Baswaraj Kokle, Nagesh Bhole	Automatic questions paper generator system by keyword based shuffling algorithm using randomisation Technique	International Journal of Advanced Research in Computer & Communication Engg IJARCCCE	ISSN (Online) 2278-1021, Volume 10, issue 5	5/1/2021	2021-22	UGC CARE	Information Technology	<a href="https://ijarccce.com/papers/automatic-question-paper-generator-system-by-keyword-based-shuffling-algorithm-using-randomization-technique/">https://ijarccce.com/papers/automatic-question-paper-generator-system-by-keyword-based-shuffling-algorithm-using-randomization-technique/</a>

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18	799944603336	Mr. Badodekar Rakesh Subhash	Arymann Sharma, Ujjwal Thakur, Atique Aziz Chaudhary	Diabetes Prediction System Using Machine Learning Algorithm	International Journal of Advanced Research in Computer & Communication Engg IJARCCCE	ISSN (Online) 2278-1021, Volume 10, Issue 2	1/2/2021	2021-22	UGC CARE	Information Technology	<a href="https://ijarccce.com/papers/diabetes-prediction-system-using-machine-learning-algorithm/">https://ijarccce.com/papers/diabetes-prediction-system-using-machine-learning-algorithm/</a>

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19	413508614049	Dr. Lokhande Prasad Eknath	U.S.Chavan, Suraj Bhosale	Nickel hydroxide nanosheets grown on nickel foam for high performance supercapacitor applications	Materials Technology: Advanced Performance Materials	ISSN: 1753-5557, DOI: 10.1080/10667857.2021.1873636	1/15/2021	2021-22	Web of Science/Scopus	Mechanical Engineering	<a href="https://www.tandfonline.com/doi/abs/10.1080/10667857.2021.1873636">https://www.tandfonline.com/doi/abs/10.1080/10667857.2021.1873636</a>

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website: sit.sinhgad.edu

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20	598604506478	Dr. Waykar Sanjay Bajaba	Dr. C. R. Bharathi	Video object retrieval mechanism with the effective video tracking model based on Deep long-short term memory	International Journal of Advanced Science and Technology	ISSN: 2005-4238, Vol. 29 No. 7 (2020)	6/1/2020	2020-21	Scopus indexed	Computer Engineering	<a href="http://sersc.org/journals/index.php/IJAST/article/view/23585">http://sersc.org/journals/index.php/IJAST/article/view/23585</a>

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21	267858607478	Dr. Mantri Dnyaneshwar Shriranglal	Neel Harsha, Pranay Gaikwad, Pranshu Kumar	Implementation of Multichannel UART Controller Based on FIFO Technique and FPGA	International Journal for Scientific Research and Development	ISSN 2321-0613, Vol. 8, Issue 3	1/6/2020	2020-21	UGC Care	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I30691">http://ijsrd.com/Article.php?manuscript=IJSRDV8I30691</a>

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22	720043034507	Ms. Shende Dipali Kedar	S. S. Sonawane	Crow Whale-ETR: Crow whale optimization algorithm for energy and trust aware multicast routing in WSN for IoT applications	Springer Wireless Networks The Journal of Mobile Communication,	1022-0038 <a href="https://doi.org/10.1007/s11276-020-02299-y">https://doi.org/10.1007/s11276-020-02299-y</a>	3/25/2020	2020-21	SCI indexed	Electronics Engineering	<a href="https://link.springer.com/article/10.1007/s11276-020-02299-y">https://link.springer.com/article/10.1007/s11276-020-02299-y</a>

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23	761407133535	Ms. Rajeshwarkar Vijaya Gopalrao	Rahul Kumar, Ravikant Praksah Singh Ashi Ajit	Gesture Based Health Care system using IoT	IJSRD - International Journal for Scientific Research & Development	ISSN (online): 2321-0613, Vol. 8, Issue 2	1/5/2020	2020-21	other	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I20879">http://ijsrd.com/Article.php?manuscript=IJSRDV8I20879</a>

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24	761407133535	Ms. Rajeshwarkar Vijaya Gopalrao	Anay Singh, Ankita Singh Auti Sarika	Driver safety using CAN communication	IJSRD - International Journal for Scientific Research & Development	ISSN (online): 2321-0613, Vol. 8, Issue 2	1/5/2020	2020-21	other	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I20957">http://ijsrd.com/Article.php?manuscript=IJSRDV8I20957</a>

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25	366498253041	Mr. Bhosale Manoj Krishna	Aditya Raj, Chetna Sharma, Mahendra Bhamre	Smart city application in different field	IJSRD - International Journal for Scientific Research & Development	ISSN (online): 2321-0613, Vol. 8, Issue 3	1/6/2020	2020-21	other	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I30110">http://ijsrd.com/Article.php?manuscript=IJSRDV8I30110</a>

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26	466877927131	Ms. Baste Vaishali Sandeep	Dr.S.B.Patil	Study of Open Circuit Fault Diagnosis in VSI using Discrete Wavelet Transform and Machine Learning Approach	Scopus index journal- International Journal of Advanced Science and Technology	ISSN: 2005-4238, Vol. 29 No. 3 (2020)	1/3/2020	2020-21	Scopus Indexed	Electronics Engineering	<a href="http://sersc.org/journals/index.php/IJAST/article/view/31538">http://sersc.org/journals/index.php/IJAST/article/view/31538</a>

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27	720043034507	Ms. Shende Dipali Kedar	Kalpita Salunkhe , Smriti , Suraj Patil	Detection of Water Contamination With Respect to Different Parameters Using IOT Based Multicast Routing	Journal of Scientific Computing UGC-CARE Group 2	ISSN: 1524-2560, Volume 9 Issue 5	5/5/2020	2020-21	UGC care	Electronics Engineering	<a href="https://drive.google.com/file/d/1yIzcrMLGCXr7A223Q3h8Z5pJN2kdnmeV/view">https://drive.google.com/file/d/1yIzcrMLGCXr7A223Q3h8Z5pJN2kdnmeV/view</a>

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28	720043034507	Ms. Shende Dipali Kedar	Ajay G. Gosavi, Rohit S. Shrimangle & Sarangchandra S. Kale	Bandicoot: Drain Clog Detection and Prevention to support Swatch Bharat Abhiyan	AEGAEUM JOURNAL- UGC Care Approved Group II	ISSN: 0776-3808, Volume 8, Issue 6,	5/6/2020	2020-21	UGC care	Electronics Engineering	<a href="http://aegaeum.com/gallery/aggm.j-3183.129-f.pdf">http://aegaeum.com/gallery/aggm.j-3183.129-f.pdf</a>

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29	665133483940	Dr. Chaudhary Dilip Damodar	Mr. Saurabh Sharma	Door Lock System Using Raspberry Pi	International Journal of Advance Engineering and Research Development	e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406, Volume 7, Issue 7	5/7/2020	2020-21	other	Electronics Engineering	<a href="http://www.ijaerd.com/papers/finished_papers/Door%20Lock%20System%20Using%20Raspberry%20Pi.pdf">http://www.ijaerd.com/papers/finished_papers/Door%20Lock%20System%20Using%20Raspberry%20Pi.pdf</a>

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30	720043034507	Ms. Shende Dipali Kedar	Saurav S Saidane , Amol S Patil and Aniket S Shinde	Embodiment Well Rescue Intelligent Device With Real Time Feed For Safety Lift	AEGAEUM JOURNAL- UGC Care Approved Group II	ISSN: 0776- 3808, Volume 8, Issue 4	5/6/2020	2020-21	UGC care	Electronics Engineering	<a href="http://aegaeum.com/gallery/aggm.j-2686.130-f.pdf">http://aegaeum.com/gallery/aggm.j-2686.130-f.pdf</a>

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31	466877927131	Ms. Baste Vaishali Sandeep	Dnyaneshwar Tandale, Darshan Wankhede	Published Patent by Student Project team under the guidance on the topic Design and Development of AI Based compact sanitization Robot System	Indian Patent Journal Application number:2021047688 A, Patent no:202021047688	Application number:202021047688 A, Patent no:202021047688	11/20/2020	2021-22	other	Electronics Engineering	<a href="https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4927_1/Part-1.pdf">https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4927_1/Part-1.pdf</a>

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32	720043034507	Ms. Shende Dipali Kedar	Saurav S Saidane , Amol S Patil and Aniket S Shinde	Published Patent A device for rescue from borewell	Indian Patent Journal	The Patent Office Journal No. 50/2020 Dated 11/12/2020	12/11/2020	2020-21	other	Electronics Engineering	<a href="http://www.ipindia.gov.in/writeraddata/Portal/POJournal/1_49331/Part-1.pdf">http://www.ipindia.gov.in/writeraddata/Portal/POJournal/1_49331/Part-1.pdf</a>
33	665133483940	Dr. Chaudhary Dilip Damodar	Adarsh Kumar, Abhinandan Jaideep, Abhinav Narayan	WSAN Based Smart Agriculture Monitoring System	International Journal for Scientific Research & Development	ISSN (online): 2321-0613, Vol. 8, Issue 2,	1/8/2020	2020-21	UGC Care	Electronics Engineering	<a href="http://www.ijrds.com/articles/IJSRDV8I20671.pdf">http://www.ijrds.com/articles/IJSRDV8I20671.pdf</a>

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34	720043034507	Ms. Shende Dipali Kedar	Yogesh Angal, S. S. Sonavane	A comprehensive survey of the Routing Schemes for IoT applications	Scalable Computing: Practice and Experience	ISSN: 1895-1767, Volume 21, Issue 2, pp. 203–216	6/27/2020	2020-21	scopus indexed	Electronics Engineering	<a href="https://doi.org/10.12694/scpe.v21i2.1667">https://doi.org/10.12694/scpe.v21i2.1667</a>
35	720043034507	Ms. Shende Dipali Kedar	Dr. S. S. Sonavane	System To Alarm Freshwater Contamination Based On Intelligent Device With IoT-Based Multicast Routing”	Indian Patent Office Journal	Patent Number:- 201921045885	1/17/2020	2020-21	other	Electronics Engineering	<a href="https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4833_1/Part-1.pdf">https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4833_1/Part-1.pdf</a>

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36	466877927131	Ms. Baste Vaishali Sandeep	Saurav Kumar Sinha, Zaki Inam, Shardul Srivastav	Automatic Tea maker using controller	International journal for scientific research and development(IJSRD)	ISSN online: 2321-0613, Vol. 8, Issue 3,	1/6/2020	2020-21	YES	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I30679">http://ijsrd.com/Article.php?manuscript=IJSRDV8I30679</a>

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37	466877927131	Ms. Baste Vaishali Sandeep	Mr.Suraj Thigale, Mr.Purushottam Damdhar and Mr.Akash Kadam	Smart System to Measure Quality and Quantity of Fuel in Vehicle	Mukt Shabd Journal Volume IX, Issue VI, JUNE/2020	ISSN NO: 2347-3150, Volume IX, Issue VI	1/6/2020	2020-21	UGC care	Electronics Engineering	<a href="http://shabdbooks.com/gallery/spl-87.pdf">http://shabdbooks.com/gallery/spl-87.pdf</a>
38	659453280929	Dr. Babar Rajendra Vithal	Soumya Verma, Vivek Rathi, Vishal Singh	Solar Based E-Uniform	International Journal for Scientific & Development	ISSN (Online):2321-0613, Vol. 8, Issue 2	1/5/2020	2020-21	Yes	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I20719">http://ijsrd.com/Article.php?manuscript=IJSRDV8I20719</a>

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39	761407133535	Ms. Rajeshwarkar Vijaya Gopalrao	Prithvi Karkera, Nayan Jadhav, Deepak Hingwe	Self Driving Vehicle using Raspberry Pi	IJSRD - International Journal for Scientific Research & Development	ISSN (online): 2321-0613, Vol. 8, Issue 2	1/5/2020	2020-21	other	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I20860">http://ijsrd.com/Article.php?manuscript=IJSRDV8I20860</a>
40	543885902850	Mr. Jadhav Manoj Sarjerao	Vijay Tambare, Vishal Kumar,	Automatic Billing Trolley	IJSRD - International Journal for Scientific	ISSN (online): 2321-0613, Vol. 8,	1/4/2020	2020-21	other	Electronics Engineering	<a href="http://www.ijsrd.com/articles/IJSRDV8I407">http://www.ijsrd.com/articles/IJSRDV8I407</a>

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3.3.2 Tabulated list of research papers published in Journals notified on UGC website

Sl. No.	Id No	Name of faculty author	Name of other contributors/guide	Title of paper	Name of journal	Volume	Publication Date	Year of publication	Is it listed in UGC Care list/Scopus/Web of Science/other, mention	Department of the teacher	Link to article/abstract of the article
41	659453280929	Dr. Babar Rajendra Vithal	Nikhil Mishra, Suraj Kute, Nikhilesh Joshi	Agriculture Robot	International Journal for Scientific Research & Development	ISSN (Online): 23210613, Vol. 8, Issue 2	1/5/2020	2020-21	Yes	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I21016">http://ijsrd.com/Article.php?manuscript=IJSRDV8I21016</a>
42	611143877779	Ms. Patil Sulakshana Sudhakar	Amarjeet Kumar, Amol Bansod, Palash Bhandare	IoT based Smart Challan Collection and Anti-Theft Security System	International Journal for Scientific Research and Development	ISSN (online): 2321-0613, Vol. 8, Issue 2	1/5/2020	2020-21	Yes	Electronics Engineering	<a href="http://ijsrd.com/Article.php?manuscript=IJSRDV8I20539">http://ijsrd.com/Article.php?manuscript=IJSRDV8I20539</a>

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43	543885902850	Mr. Jadhav Manoj Sarjerao	Pranav Aryan, Mohit Morankar, Dnyaneshwar Bodke	Design and Implementation of Solar based Natural Insect Trap and Pest Control	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	e-ISSN: 2278 – 8875, Volume 9, Issue 6	1/6/2020	2020-21	Yes	Electronics Engineering	<a href="http://www.ijareeie.com/upload/2020/june/26_Design_NC.PDF">http://www.ijareeie.com/upload/2020/june/26_Design_NC.PDF</a>

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