



**DEPARTMENT OF CIVIL ENGINEERING**

**FACULTY PUBLICATIONS 2021– 2022**

S.N O.	FACULTY NAME	Citation	Doi	Scopus	Sci	Non-Scopus/ Non-Sci
1	Deepan Dev B and <b>Dr V Selvan</b> “Special Moment Resistant Steel Buildings” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 12, Issue 1, ISSN (Online) 2581-9429(2021)		10.48175/IJAR SCT-2214			<b>1</b>
2	Suganth G, <b>Selvan V</b> ” A Study on Seismic Behavior of Different Braced Building” International Research Journal of Modernization in Engineering Technology and Science(IRJMETS), Volume 03, Issue 12, e-ISSN: 2582-5208(2021).					<b>1</b>
3	Jagan D and <b>Premalatha J</b> ” Literature Study on Seismic Analysis of Multi-Storey RC Frame with Different Types of Foundation” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022)		10.48175/IJAR SCT-2462			<b>1</b>
4	Pravin Kumar D and <b>Premalatha J</b> ” A Study on Impact Strength, Permeability and Chemical Resistance of Concrete Reinforced with Fibers” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJAR SCT-2298			<b>1</b>
5	Aravind R, <b>Eswaramoorthy P</b> ” Study the Behaviour of Flat Slabs Undergoing Punching					<b>1</b>

	Shear and to Compare it with Different Slabs” International Research Journal of Modernization in Engineering Technology and Science(IRJMETS), Volume 04, Issue 01, e-ISSN: 2582-5208(2022).					
6	Jinimol J.S, <b>P,Eswaramoorthi</b> “ Comparative Analysis and Design of PSC I Girder and Double T Girder at Platform Level in Elevated Metro Stations” International journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 6, 2021, 2641-2646.					<b>1</b>
7	Vivekananda Sharma S., “Hemalatha G., Ramadevi K. Analysis of magnetic field-strength of multiple coiled MR-damper using comsol Multiphysics” Materials Today: Proceedings (ELSEVIER), pp 1-7 ,2022.			<b>1</b>		
8	Somasundhara Naathan M and <b>Dr. Ramadevi K</b> ” Analysis of Multistory Buildings With Stub Column In Different Seismic Zones In India – A Review” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 1, ISSN (Online) 2581-9429		10.48175/IJA RSCT-2232			<b>1</b>
9	Vasanth G and <b>Dr. K. Ramadevi</b> “Study on the Effect of Nano-Silica in Mechanical and Durability Properties of Concrete with Steel Fiber” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2233			<b>1</b>
10	R. A. Joshia Issac, A. Bharathu and <b>Dr. K. Ramadevi</b> ” Ground Improvement By Using Coir Geo-Textile” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 10, Issue 1, ISSN (Online) 2581-9429(2021)		10.48175/IJA RSCT-2008			<b>1</b>
11	Sneha M, <b>Ramsundram N</b> , "Covid 19 influence on mixed urban cluster air quality: A case study from INDIA". Asian Pacific					<b>1</b>

	Journal of Environment and Cancer (accepted and under production)					
12	B Jeeva , S Jai Sandeep , <b>N Ramsundram</b> , M Prasanth and B Praveen, “Experimental Investigation of Three Bladed Inclined Savonius Hydrokinetic Turbine by using Deflector Plate” ATFE 2021, 1146 (2021) 012009,		<i>10.1088/1757-899X/1146/1/012009</i>			1
13	<b>Narayanan Ramsundram</b> , Abdul Rahman Hajira Sulthana, A. Deepak Kumar, K. R. Aranganayagam and D. Pricilla. “Impact of fenton process Operating pH on textile effluent decolorization”, Parana Journal of Science and Education, Vol. 7, No. 5, 2021, 8-21.					1
14	Nithya Subhashini T, <b>Ramsundram N.</b> COVID -19 Spreads Through Respiratory Droplets: A Review of Modelling and Simulation. International Journal for Science and Advance Research in Technology, Volume 7, Issue 6, 2021, 637-641.					1
15	S.C. Boobalan , V. Aswin Srivatsav , A. Mohamed Thanseer Nisath , A. Pratheesh Babu , <b>V. Gayathri</b> , “A comprehensive review on strength properties for making Alccofine based high performance oncrete” ScienceDirect,2021.		<i>10.1016/j.matpr.2021.01.278</i>		1	
16	Rakesh Kumar Dutta , Jitendra Singh Yadav, Vishwas Nandkishor Khatri, <b>Gayathri Venkataraman</b> ,” A Study on the Suitability of Fly Ash–Lime–Alccofine Mixtures in the Construction of Road Pavement” Springer 2021.		<i>https://doi.org/10.1007/s40515-021-00200-8</i>	1		
17	M. Jamuna, <b>M. Gandhimathi</b> , J. Abdul Bari and T. Niveditha” Florida’s Aquifer Vulnerability to Nitrate Contamination: A GIS Model” Nature Environment and Pollution Technology, Vol. 21(1), pp. 247-253(2022).		<i>https://doi.org/10.46488/NEPT.2022.v21i01.028</i>			1

18	Sidharthan.K, <b>Gandhimathi.A.</b> "Analysis of Air Pollutants from Industry Zone In Coimbatore City in International Research Journal Of Modernization in Engineering Technology and Science,Volume.3, Issue07. July-2021.					1
19	<b>Gandhimathi.A</b> and Naresh.K. "Analysis of Water Quality at Ooty for drinking purpose at World Journal of Advanced Engineering and Technology and Science 20 June 2021		<a href="https://doi.org/10.30574/wjaets.2021.2.2.0049">https://doi.org/10.30574/wjaets.2021.2.2.0049</a>			1
20	<b>Gadhimathi.A</b> and Ganesh Kumar.B "Environmental Impacts of Air Pollution in Coimbatore, Tamilnadu" at Pensee Journal, Volume 51, Issue 02 – 2021.					1
21	Sri Pranap.K and <b>Gandhimathi.A</b> "Experimental Study On Validation the Performance of Hair Fibre Reinforced Concrete Beam Under Monotonic Loading at AIP Proceeding-030013 -3. 2021.					1
22	<b>Geethakarathi A,</b> Characterization of acid impregnated activated carbon developed from tannery sludge, Journal of Environmental Research, Engineering and management, Vol.77(2).pp.37-42.			1		
23	T Tharani; <b>A Geethakarathi</b> ; P.A Prabakaran, (2021). Spatial Distribution Analysis of Air Pollutants and The Impact of Meteorological Factor. 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) proceeding.		<a href="https://doi.org/10.1109/ICAECA52838.2021.9675554">10.1109/ICAECA52838.2021.9675554</a>	1		
24	R Nisha Nandhini.; <b>A Geethakarathi.</b> (2021). Influential Study and Development of Global Solar Radiation Prediction Model Using ANN 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) proceeding.		<a href="https://doi.org/10.1109/ICAECA52838.2021.9675646">10.1109/ICAECA52838.2021.9675646</a>	1		
25	Manish Ram E, Sindhu Vaardini U, <b>Dr. Manju R</b> " A Study on the Applications of Concrete		10.48175/IJA RSCT-2272			1

	Canvas in Civil Engineering Projects” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).					
26	Anantharam T, <b>Dr. R. Manju</b> , Sindhuvaardini U “Overview on Study on Properties of Concrete Canvas” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022)		10.48175/IJA RSCT-2230			1
27	Vijay Karthekeyan R , <b>Dr. R. Manju</b> and Subitha T” Study on Strength and Durability Properties of Bacterial Concrete” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT) Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2227			1
28	Sangamithra S and Nanda Kumar P <b>R. Manju.</b> , Review on Enhancement of Lime Mortar Using Natural Additives, Journal of Chengdu University of Technology, 2021, Volume 26, Issue 7, Pages 1-7.					1
29	P. Sasikumar M. Dhivya, <b>R. Manju.</b> , Finite Element Analysis of High Strength Concrete Columns, Beams and Beam-Column joints Reinforced with GFRP Bars, International Journal of All Research Education & Scientific Methods, (IJARESM), 2021, Volume 9, Issue 6, Pages 353-361.					1
30	Kamale G and <b>Satheeshkumar K R P</b> ” Soil Structure Interaction in High-Rise Buildings for Dynamic Loads” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2243			1
31	Surendran PN and <b>Satheesh Kumar KRP</b> ” Impact Analysis and Structural Optimization of Crash Barriers” International Journal of		10.48175/IJA RSCT-2228			1

	Advanced Research in Science, Communication and Technology (IJAR SCT) Volume 2, Issue 1, ISSN (Online) 2581-9429(2022)					
32	P. A. Prabakaran , <b>Satheesh Kumar KRP</b> and Janani G, Experimental Project on Concrete – Partial Replacement of Cement by Prosopis Juliflora, International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), 2022, Volume 2, Issue 1, ISSN (Online) 2581-9429		10.48175/IJA RSCT-2226			1
33	Harigaran M G and <b>Nandha Kumar P</b> “Experimental Investigation of Steel Fibre Reinforced Self Compacting Concrete Using Ecosand” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2267			1
34	Kishor S and <b>Nandhakumar P</b> Literature Study on Characteristics of Concrete Reinforced with Coconut Fibre” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2473			1
35	Ramasamy Rahul S, <b>Karthikeyan G</b> ” Analysis of Soft Storey Steel Building under Seismic Load with Different Steel Bracings” International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume 04, Issue01, e-ISSN: 2582-5208(2022).					1
36	<b>G. Karthikeyan</b> , V. Nithin ,“Structural Analysis and Design of RCC and Steel Plate Shear Wall for Multistoried Building” International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 6 June 2021, pp: 211-232.					1
37	Janani G, <b>Prabakaran P A</b> ,” Evaluation of Heavy Metal Concentration in E-waste Using Atomic Absorption Spectroscopy, IRJMETS,					1

	Volume 04, Issue 04(2022), e-ISSN:2582-5208.					
38	T Tharani; A Geethakarathi; <b>P.A Prabakaran</b> , (2021). Spatial Distribution Analysis of Air Pollutants and The Impact of Meteorological Factor. 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) proceeding.		<a href="https://doi.org/10.1109/ICAECA52838.2021.9675554">10.1109/ICA ECA52838.20 21.9675554</a>	1		
39	<b>P. A. Prabakaran</b> , Satheesh Kumar KRP and Janani G, Experimental Project on Concrete – Partial Replacement of Cement by Prosopis Juliflora, International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), 2022, Volume 2, Issue 1, ISSN (Online) 2581-9429		10.48175/IJA RSCT-2226			1
40	Rupeesh S. and <b>Prabhakaran P.A.</b> “Analysis of a Structural and Sismic Design of an Auditorium“. International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 11, Issue 1, 2021, 368-390.		10.48175/IJA RSCT-2132 368			1
41	E. Iniyar and <b>P. A Prabakaran</b> . “Design Calculation for A (G +10) Building (Encode Steel)“. International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 11, Issue 1, 2021, 334 – 345.		10.48175/IJA RSCT-2127 334			1
42	<b>Anand T</b> and Jeevanandham V” A Study on Application Initiative Development for Construction Management” /International Journal of Advanced Research in Science, Communication and Technology, Volume 9, Issue 1, Pages 400-443, ISSN (Online) 2581-9429(2021)		10.48175/IJA RSCT-1986			1
43	N.Nattuthurai and <b>T.Anand</b> ” Planning, Analysing and Designing A (G+1) Bank Building”, International Journal ofAdvanced Research in Science, Communication and		10.48175/IJA RSCT-2012			1

	Technology(IJAR SCT) Volume 10, Issue 1, ISSN (Online) 2581-9429(2021).					
44	PoojaG and <b>Anand T</b> ” Exploitation of Crushed Granite Fine as Replacement to River Sand in Concrete” International Journal ofAdvanced Research in Science, CommunicationandTechnology(IJAR SCT)Vol ume 11, Issue 1, ISSN (Online) 2581-9429(2021)		10.48175/IJA RSCT-2078			1
45	A Bharathu, R A Joshia Isacc, <b>U Sindhu vaardini</b> ”Landslide Mitigation Using Internet of Things” Journal of Chengdu University of Technology, Volume 26, Issue 9, ISSN-NO-1671-9727(2021)					1
46	Bharathu A and <b>Sindhu Vaardini U</b> ” Exploration of Factors Contributing to Construction Waste in India/International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1,Pages 315-321, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2292			1
47	Manish Ram E and <b>Sindhu Vaardhini U</b> “An Experimental Investigation on Concrete by Partially Replacing Cement Using Bagasse Ash Powder”, International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 11, Issue 1, ISSN (Online) 2581-9429(2021)		10.48175/IJA RSCT-2066			1
48	Manish Ram E, <b>Sindhu Vaardini U</b> , Dr. Manju R” A Study on the Applications of Concrete Canvas in Civil Engineering Projects” International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 2, Issue 1, ISSN (Online) 2581-9429(2022).		10.48175/IJA RSCT-2272			1
49	<b>SindhuVaardini U</b> and Pon Soundarya M” Experimental Study on Properties of Concrete Using Shredded Plastic Waste and M-Sand as Partial Replacement of Fine Aggregate”, International Journal		10.48175/IJA RSCT-2088			1



	ofAdvanced Research in Science, Communication and Technology (IJARSCT) Volume 11, Issue 1, ISSN (Online) 2581-9429(2021).					
50	P.Swathi, G.Pooja, <b>U.Sindhu Vaardhini</b> "Robotics and Automation in Construction" Journal of Chengdu University of Technology, Volume 26, Issue 10, ISSN-NO- 1671-9727(2021)					1
51	Swathi P, <b>SindhuVaardini U</b> , 4D Scheduling and Simulation of a G+3 Residential Building using Power Project, International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 1, Pages 307-314, ISSN (Online) 2581-9429 (2022).		10.48175/IJAR SCT-2291			1
52	S. Mohammed and <b>U. Sindhu Vaardini</b> , "Analysis on the Growing Problems of E-waste and Implementation of a Circular Economic Approach to Managing E-waste," 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), pp. 1-5(2021).		10.1109/ICA ECA52838.20 21.9675772	1		

**Table B 5.8.1(d) List of Books/Chapters published during the assessment years**

Year	Name of the Faculty	Title of the Book/ Book Chapter	Year of Publishing	Publisher	Page Nos.	ISBN No./DOI
2021-2022	<b>Geethakarthis, A.</b> , S. G. Dhanushkumar, K. Giftlin Devapriya, B. Mirudhula, L. Monisha, and S. Sanjaikabilan.	Synthesis of Graphene Based Nanocomposite from Captured Industrial Carbon	2022	Springer nature, Singapore	129-155	
2020 - 2021	<b>Geethakarthis A. (2021).</b>	Application of Sustainable and Low-Cost Sludge-Based Adsorbents for Textile Dye	2021	Springer nature, Singapore	25-88	<a href="https://doi.org/10.1007/978-981-16-0065-4_2">https://doi.org/10.1007/978-981-16-0065-4_2</a> .

		Degradation. In: Muthu S.S. (eds) Advances in Textile Wastewater Treatments. Sustainable Textiles: Production, Processing, Manufacturing & Chemistry.				
2020-2021	<b>K. Ramadevi</b> and S. K. Shivarajan	Advanced Studies of Photo Degradation on Ziram Using Homogeneous and Heterogeneous Photocatalyst	2020	Book Publisher International	136-141	ISBN: 978-93-90431-19-9
2020-2021	<b>K. Ramadevi</b> and S. Deepa Shri	Studying the Flexural Behaviour of Hemp Fiber Reinforced Concrete Beams	2020	Book Publisher International	129-135	ISBN: 978-93-90431-19-9
2019-2020	Rakesh Kumar Dutta · Jitendra Singh Yadav · Vishwas Nandkishor Khatri · Gayathri Venkataraman	A Study on the Suitability of Fly Ash–Lime–Alccofine Mixtures in the Construction of Road Pavement				<a href="https://doi.org/10.1007/s40515-021-00200-8">https://doi.org/10.1007/s40515-021-00200-8</a>
2018-2019	<b>G.Karthikeyan</b> , M. Balaji, Adarsh R.Pai and A. Muthukrishnan	Sustainable Construction and Building Materials: Select Proceedings of ICSCBM 2018	2018	Springer nature, Singapore	189-200	<a href="https://doi.org/10.1007/978-981-13-3317-0">https://doi.org/10.1007/978-981-13-3317-0</a>
2017-2018	<b>Dr.K.Ramadevi</b> & Dr.R.Anuradha	Prefabricated Structures	2017	VSRD Academic Publications		ISBN: 978-93-86258-71-7
2017-2018	<b>Dr.A.Gandhimathi</b> & Mr.J.Viswanath	Wastewater Engineering,	2017	Sri Amman Publications (P) Ltd.		ISBN: 978-81-908993-8-3

		(Environmental Engineering II)				
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**Table B 5.8.1(e)- Patent Details**

<b>Year</b>	<b>Name of Inventor/Applicant</b>	<b>Title of Invention</b>	<b>Application No and date of filing</b>	<b>Status</b>
2020-2021	Oswalt Manoj S, <b>Sindhu Vaardini U, R. Manju</b> , Binu Dennis, Rajakumar B. R.	An Intelligent Concrete Mixture System with Prediction of Mixture Strength Using Deep Learning	202141020632 A Date of filing: 06/05/2021 Publication Date: 14/05/2021	Published
2020-2021	R.Anuradha, <b>K.Ramadevi</b> , R. Gobinath, T. Sathanandham, M. Sasi Regha	A Novel Method to Prepare Self-Compacting Concrete using Single Alkali Activated Ash Based Concrete	202041004257 Date of filing: 31/01/2020 Publication Date: (U/S 11A): 07/02/2020	Published
2020-2021	Alan Paul P, <b>Lisa Mary Thomas</b>	Crash Barrier with Spring Loaded Floating Rollers	201841032591 Date of filing: :30/08/2018 Publication Date (U/S 11A): 06/03/2020	Published
2017-2018	- Dr.M.Shanmugaprakash , Dr.Karthik Rajendran , Dr.Manivel , <b>Dr.G.L.Sathyamoorthy</b> -	Gas Flow Measurement Tube	Design Application No: 297724 dated September 21, 2017	Granted