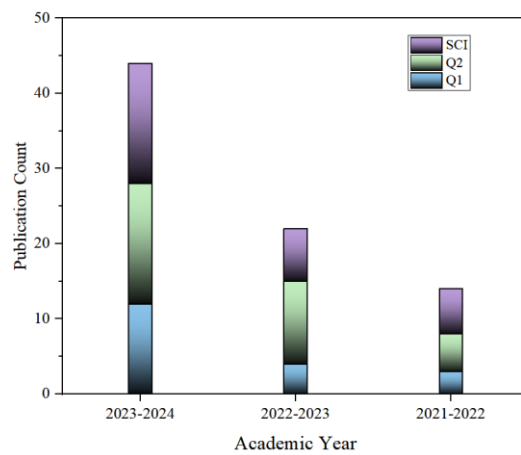
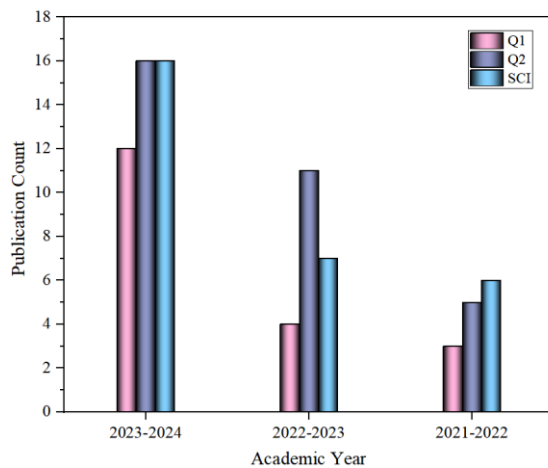


SCHOOL OF MECHANICAL AND CONSTRUCTION

DEPARTMENT OF CIVIL ENGINEERING

Faculty Publication Details

S. No.	Item	2023-24			2022-23			2021-22		
		Scopus	WoS	Total	Scopus	WoS	Total	Scopus	WoS	Total
1	No. of peer reviewed journal papers published	24	42	66	13	13	26	8	10	18
2	No. of peer reviewed conference papers published	21	3	24	22	0	22	4	16	20
3	No. of books, book chapters published	6	0	6	2	1	3	0	0	0
Total		54	42	96	37	14	51	14	24	38
Overall Total		185								



Details of Patent Published -2025

S.No.	Title of the Invention	Patent Application No.	Inventors	Published date
1.	Suraksha Chakra	202441061740	Mr. K.V.D.Kishore Kumar Dr. Baskar . S	15-08-2025
2.	Manufacturing of Ecofriendly Interlocking Blocks using cotton cloth grinding waste as fine aggregate	202441103936	Mr. T. Udhaya Kumar Dr. M. Vinod Kumar Mrs. M. Jayadurgalakshmi	03-01-2025
3.	Sustainability assessment in Utilization of agricultural wastes and Construction demolition waste in paver blocks.	202441104104	Mr. T. Udhaya Kumar Mrs. Jayadurgalakshmi. M	10-01-2025
4.	Effect of Elevated Temperatures on Compressive Strength of Cement Mortar Blended with Coconut Fibre Waste and Carbon Nanotubes	202441104099	Dr. J. Anita Jessie Dr. K. K. Gaayathri Dr. A. Soundhar	10-01-2025
5.	Development of Artificial Fine Aggregate using Coal Washery Rejects By Geopolymer Technology	202441104100	Mr. T. Udhaya Kumar Mrs. M. Jayadurgalakshmi	10-01-2025
6.	Advanced Multi-layer Concrete Panels with Innovative Fibre-Enhanced Eco-Concrete Technology	202441105165	Mr. M. Sridhar Dr. M. Vinod Kumar	10-01-2025
7.	Manufacturing of Geopolymer Aggregate Using Graphene Oxide as a Sustainable Alternative to Natural Aggregate	202541007421	Mr. T. Udhaya kumar Mrs. M. Jayadurgalakshmi	07.02.2025
8.	Affordable Prefabricated Wall Panels Using Coal Washery Rejects Artificial Fine Aggregate	202541018439	Mr T. Udhaya kumar Dr. M. Vinod Kumar Mrs. M. Jayadurgalakshmi	14.03.2025
9.	Compressive Strength Enhancement in Ternary Blended Hybrid Fibre-Reinforced Concrete	202541042551	Dr K K Gaayathri Dr J Anita Jessie	30.05.2025
10.	Development of Paver Blocks with Electronic Plastic Waste And Polyethylene Fibre	202541032342	Mr. T. Udhaya kumar Mrs. M. Jayadurgalakshmi Dr. Kandasamy	11.04.2025
11.	Nano-Engineered Hybrid Concrete Reinforced with Multi-Walled Carbon Nanotubes and Glass Fibers	202541054508	Dr. S. Kandasamy Mr. Ali Ebrahim Dr. M. Vinod Kumar Mr. T. Udhaya Kumar	13.06.2025
12.	Cassava Peel Ash as Sustainable Precursor for the Geopolymer Concrete	202541071687	Dr. A.Chithambar Ganesh Ms. A. Ragasree	01.08.2025
13.	“Development of One part Geopolymer Concrete using Solid activators with different alkaline to binder ratios for strength optimization”	202541064609	Ms. Yamini V Dr. A.Chithambar Ganesh	11.07.2025

14.	Cassava Peel Ash as a sustainable precursor for the development of Self-Compacting Geopolymer Concrete	202541069241	Ms. A. Ragasree Dr. A. Chithambar Ganesh	25.07.2025
15.	Development of High strength concrete using alkali and KH based Silane treated glass fibers	202541075859	Dr. A. Chithambar Ganesh Ms. A. Ragasree	22.08.2025
16.	Utilization of Coffee Husk Ash as a sustainable activator in One-Part Geopolymer Concrete	202541080534	Ms. Yamini V Dr. A. Chithambar Ganesh Dr. M. Vinod Kumar	19.09.2025
17.	Enhanced Internal Curing System for Ternary Blended Concrete using Pre-Treated Kenaf Fibres	202541073763	Dr. Shanmugapriya J	22.08.2025
18.	Recycling Marine Plastic Waste Ghost Net Fibre Integration in Sandwich Slab Construction	202541077793	Dr. M. Vinod Kumar Mr. Afshana Wazir	29.08.2025
19.	Development of Eco-Friendly, Crack Resistance, Sustainable and Novel Shaped Interlocking Paver Blocks from Waste-Derived Materials for Urban Roads	202541088156	Dr. M. Vinod Kumar	10.10.2025
20.	Development of Interlocking Blocks using cotton cloth grinding waste as fine aggregate and geopolymer aggregate as coarse aggregate	202541081865	Mr. Udhaya kumar T Mrs. Jayadurgalakshmi M	26.09.2025
21.	Development of Interlocking paver Blocks by using geopolymer coarse aggregate and Human Hair Fiber to enhance crack resistance of concrete	202541090996	Mr. Udhaya kumar T Mrs. Jayadurgalakshmi M	24.10.2025

Details of Patent Published -2024

S.No.	Title of the Invention	Patent Application No.	Inventors	Published date
1.	A Graphene Oxide Infused High Performance Concrete Reinforced with Hybrid Fibres	202341089381	Dr. J. Logeshwari Mr. V. Anish Dr. S. Samson	12.01.2024
2.	Hybrid Fibre Reinforced Concrete	202441005459	Dr. J. Anita Jessie Dr. K. K. Gaayathri	09.02.2024
3.	Waste Plastic in the Form of Fibres in Concrete	202441016651	Dr. M. Vinod Kumar Ms. Razan Alzein	22.03.2024
4.	Removal of Nickel and Mercury from Aqueous Solution using Clam Shell as Adsorbent	202441024635	Mr. S. Baskar Dr. K.R. Aswin Sidhaarth Dr. K. Tamilarasan Dr. M. Vinodkumar	05.04.2024
5.	Interlocking Geopolymer Concrete Blocks Utilizing E- Waste and Industrial waste Material	202441030046	Mr. T. Udhaya Kumar Mrs. M. Jayadurgalakshmi	26.04.2024

6.	Cassava Peel Ash as a Sustainable Cementitious Material	202441030292	Dr. A. Chithambar Ganesh Dr. K. Nandini	26.04.2024
7.	Seismic Resistant Building Structure With Fluid Dampers and Recyclable Rubber Pad Bearing	202441034243	Dr. J. Cici Jennifer Raj Mr. Tathagata Majumder Mr. Bhopen Singh Mr. Kangujam Mr. Khanachaobam Loiyumba	10.05.2024
8.	A Method for Manufacturing Of Geopolymer Fine Aggregate from Ground Granulated Blast – Furnace Slag (GGBS)	202441058583	Mr. T. Udhaya Kumar Mrs. M. Jayadurgalakshmi	09.08.2024
9.	Geopolymer Interlocking Blocks	202441066744	Mr. T. Udhaya Kumar Dr. R. Ravikumar Mrs. Jayadurgalakshmi	13.09.2024
10.	Nylon Fibre for Reinforcing Concrete or Mortar Having a Flattened End	202441070897	Mr. M. Sridhar Dr. M. Vinod Kumar	04.10.2024
11.	A Method to Reduce Shrinkage Cracking In Self Compacting Concrete	202441074790	Dr. J. Shanmugapriya	11.10.2024
12.	Eco Friendly Self Curing Concrete Formulation and its Method of Preparation	202441080120	Mr. B. L. Niranjan Reddy Dr. M. Vinod Kumar Dr. A. Chithambar Ganesh	25.10.2024
13.	Composite concrete composition and Method of preparation Thereof	202441081509	Mr. M. Sriram Dr. K.R. Aswin Sidhaarth	01.11.2024
14.	Synthesis of Iron Nanoparticles Using Jujube Leaf Extract for Dye Effluent Remediation	202441084520	Dr. S. Baskar Dr. D. David Neels Ponkumar Ms. Sriya G. Nath	08.11.2024

Details of Patent Published -2023

S.No.	Title of the Invention	Patent Application No.	Inventors	Published Date
1.	A Multilevel Bay Based Modular Hydroponics System for Rooftop Gardening	202341003562	Dr.S. Samson Dr.V.R. Manoj	27.01.2023
2.	Sandwich Wall Infilled Framed Structure with Openings	202241020407	Dr. J. Logeshwari, Mr. R. Rajeshwaran Mr. A. Jagathan Prakaash	14.04.2023
3.	Sand Tyre Crumbs Geo bags (STCG) based Seismic Isolation System	202341039495	Dr. J. Cici Jennifer Raj	30.06.2023
4.	Treated Recycled Coarse Aggregate landfill Liner	202341058820	Dr. J. Logeshwari Ms. T. Anstey Vathani	06.10.2023

5.	Enhanced Concrete with Unconventional Materials	202341058942	Mrs. M. Jayadurgalakshmi Mr. T. Udhaya Kumar Dr. S. Kandasamy	06.10.2023
6.	Novel Fibre for Effective Bonding in Fiber- Reinforced Concrete (FRC)	202341062039	Mr. M. Sridhar Dr. M. Vinod Kumar	06.10.2023
7.	Crack Filling Sealant Utilizing Crumb Rubber and E.Waste as Partial Replacements For Bitumen	202341067502	Ms. K. A. Vinodhini Dr. K. R. Aswin Sidhaarth Dr. M. Vinod Kumar	13.10.2023
8.	Development of Masonry Bricks Utilizing Waste Plastics And Industrial Wastes	202341075816	Mr. T. Udhaya Kumar Mrs. M. Jayadurgalakshmi	22.12.2023

Details of Patent Published -2022

S.No.	Title of the Invention	Patent Application No.	Inventors	Published date
1.	A Method for Flood Risk Reduction Using the DPSIR Framework	202141044772	Dr. S.P. Saravanan	11.02.2022
2.	Composite Material for Concrete Structures	202241020628	Ms. M. Jayadurgalakshmi Mr. T. Udhaya Kumar Dr. S. Kandasamy	22.04.2022
3.	Recyclable Scrap Tyre Rubber Pad Bearings With RCC Column Capping and Method Thereof	202241020483	Dr. M. Vinod Kumar, Ms. J. Cici Jennifer Raj Mr. S. Shabarish	03.06.2022

Details of Patent Granted -2025

S.No.	Title of the Invention	Patent No.	Inventors details	Granted date
1.	A Multilevel Bay Based Modular Hydroponics System for Rooftop Gardening	568242	Dr.S.Samson Dr.V.R.Manoj	01.07.2025

Details of Patent Granted -2024

S.No.	Title of the Invention	Patent No.	Inventors details	Granted date
1.	Pollutant Absorbents for Paints	507918	Ms. D.G.S. Nivedha Ms. V. Yamini	07.02.2024
2.	Rubber in Filler Concrete	491756	Mr. Nelson Ponnudurai Ms. Abirami	10.02.2024
3.	A Lightweight Concrete Bubble Deck Composite Slab Integrated with Various Profiled Steel Sheets	533866	Dr. M. Vinod Kumar Mr Taha Abou Hamza Dr. S. Samson Dr. K. Tamilarasan Mr. M. Sridhar	19.04.2024

Details of Patent Granted -2023

S. No.	Title of the Invention	Patent No.	Inventors details	Granted date
1.	Method of Constructing Lightweight Concrete Slab	494387	Dr. M. Vinod Kumar Ms. Razan Alzein Dr. K.R. Aswin Siddharth Mr. J. Saravanan Dr. S. Kandasamy	01.03.2023
2.	Prefabricated Wall Panels Using Geopolymer Aggregate Concrete	458271	Mr. T. Udhaya Kumar Mrs. M.Jayadurgalakshmi	11.10.2023
3.	A Passive Energy Dissipation Device to Improve Global Stiffness of RC Framed Building	463039	Mrs. A. Sangeetha	27.10.2023
4.	Industrial By. Products Based Interlocking Blocks Composition	492264	Dr. S. Samson Mr. G. Naresh Kumar Mr. S. Ashokram	30.12.2023

Details of Patent Granted -2022

S.No.	Title of the Invention	Patent No.	Inventors details	Granted date
1.	A Fabricated Detachable Emission Filter for Exhaust Outlets	388080	Mr.J. Saravanan Mr. T. Nelson Ponnudurai	31.01.2022

Details of Patent Granted -2021

S.No.	Title of the Invention	Patent No.	Inventors details	Granted date
1.	A Composition of Geopolymer Clinker Aggregate and a Process Thereof	356751	Mr. T. Udhaya Kumar	27.01.2021

List of Sponsored Research Projects Received from External Agencies

[illegible]

1	Dr. S. Kandasamy	Nil	Civil Engineering	Development of Very High Volume Ultra Fine Flyash Concrete Cast Using Controlled Permeable Formwork Liner	SERB TARE	3 Years	18.3
Amount received (Lacs)							18.3
Total Amount (Lacs) Received for the Past 3 Years							36.6