ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ
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Yelahanka, Bengaluru 560119

# Department of Civil Engineering

## FACULTY PUBLICATION DETAILS

## Number of publications

| Sl. No. | Item | 2025-26 | 2024-25 | 2023-24 | 2022-23 | Total |
|---|---|---|---|---|---|---|
| 1 | Peer-reviewed journal papers | 11 | 4 | 8 | 3 | 26 |
| 2 | Peer-reviewed conference papers | 3 | 2 | - | 5 | 10 |
| 3 | Books / book chapters | 8 | 2 | 9 | 3 | 22 |
| | Total | 22 | 8 | 17 | 11 | 58 |

## Journal papers by SJR quartile

| Sl. No. | Quartile | 2025-26 | 2024-25 | 2023-24 | 2022-23 | Total |
|---|---|---|---|---|---|---|
| 1 | Q1 | 3 | - | - | - | 3 |
| 2 | Q2 | 2 | - | 3 | - | 5 |
| 3 | Q3 | 2 | 3 | 1 | 1 | 7 |
| 4 | Q4 | 3 | 1 | 4 | 2 | 10 |

# Journal papers by indexing

| Sl. No. | Indexing | 2025-26 | 2024-25 | 2023-24 | 2022-23 | Total |
|---|---|---|---|---|---|---|
| 1 | SCI | - | - | - | - | - |
| 2 | SCIE | 1 | 2 | 2 | - | 5 |
| 3 | Scopus | 10 | 4 | 8 | 1 | 23 |
| 4 | Web of Science | 2 | 3 | 4 | 1 | 10 |
| 5 | Both Scopus & Web of Science | 2 | 3 | 4 | 1 | 10 |

ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

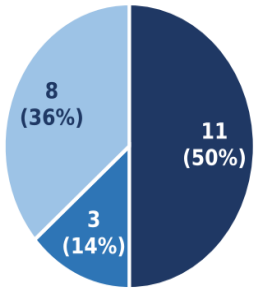
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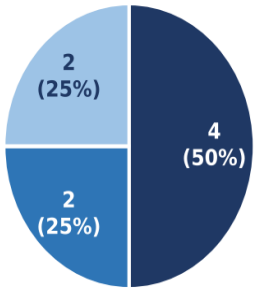
# Graphical Representation

## Publications by type in each academic year

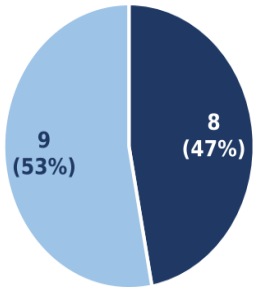
**Academic Year 2025-26**
**Total = 22**



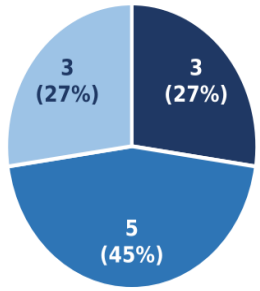

**Academic Year 2024-25**
**Total = 8**




**Academic Year 2023-24**
**Total = 17**




**Academic Year 2022-23**
**Total = 11**




Journal papers  Conference papers  Book chapters

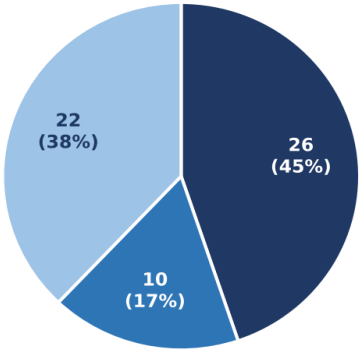
ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

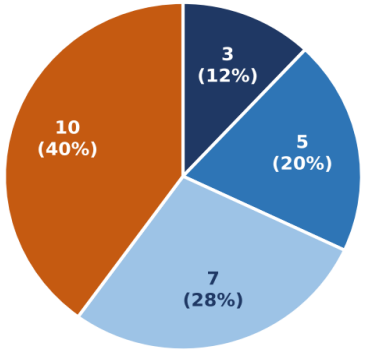
(Autonomous Institution Under VTU)

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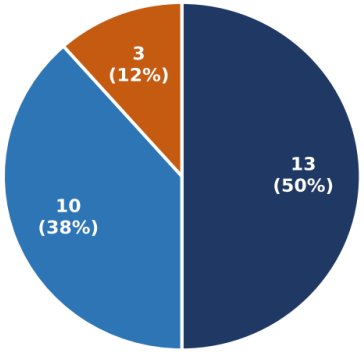
### Publications by type (2022-23 to 2025-26) Total = 58




### Journal papers by SJR quartile (2022-23 to 2025-26) Total = 25




### Journal papers by indexing (2022-23 to 2025-26) Total = 26



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# Details of publication in Journals

## Academic Year 2025-26

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 1 | Dr. H. N. Rajakumara | June 2026 | Determinants of Public Transport Use in Bengaluru: An Empirical Analysis of Commuter Behaviour | Frontiers in Sustainable Cities | WOS & Scopus | Q1 | ESCI | https://doi.org/10.3389/frsc.2026.1837809 |
| 2 | Dr Vinod B R | June 2026 | Mechanical, tribological and fractography analysis of structural grade Al7075/n-TiC composites and optimization of wire EDM parameters through Taguchi method | Fracture and Structural Integrity | Scopus | Q2 | – | https://doi.org/10.3221/IGF-ESIS.77.24 |
| 3 | Dr Vinod B R | May 2026 | Consumer Switching Behaviour towards Smart, Green, and Sustainable Building Materials: A UTAUT2-PPM-VBN Triad-Framework | Civil Engineering and Architecture | Scopus | Q2 | – | https://doi.org/10.13189/cea.2026.140322 |
| 4 | Dr Rajesh Gopinath | May 2026 | First time in 110 years: Sighting of Gynacantha khasiaca Maclachlan, 1896 (Odonata: Aeshnidae) in Arunachal Pradesh, India | Journal of Threatened Taxa | Scopus | Q4 | – | https://doi.org/10.11609/jott.9839.18.5.28982-28987 |

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 5 | Dr Rajesh Gopinath | March 2026 | First photographic record of Chitoria sordida sordida (Moore, 1866) (Insecta: Lepidoptera) | Journal of Threatened Taxa | Scopus | Q4 | – | https://doi.org/10.11609/jott.9480.18.3.28600-28603 |
| 6 | Dr Vinod B R | January 2026 | Behaviour of Laterally Loaded Tapered Pile Groups under Inclined Loading | Geotechnical and Geological Engineering | Scopus | Q1 | – | https://doi.org/10.1007/s10706-025-03611-3 |
| 7 | Shobha R, Vinod B R | January 2026 | Optimizing Concrete Mix Design using Machine Learning Techniques | Grenze International Journal of Engineering and Technology | – | – | – | – |
| 8 | Dr Rajesh Gopinath | August 2025 | First record of the Coeliccia svihleri Asahina, 1970 (Odonata: Platycnemididae) in Arunachal Pradesh, India | Journal of Threatened Taxa | Scopus | Q3 | – | https://doi.org/10.11609/jott.9533.17.8.27363-27370 |
| 9 | Dr Aruna G | 25.07.2025 | Performance ability study on sludge contained hollow concrete blocks | Revista Matéria | WOS & Scopus | Q3 | SCIE | https://doi.org/10.1590/1517-7076-RMAT-2025-0206 |
| 10 | Chandrashekharappa Agasnalli | 11.07.2025 | Land Use and Land Cover Change Dynamics Analysis Using Remote Sensing and GIS Technologies – A Review | Journal of Research in Environmental and Earth Sciences | Scopus | Q4 | – | https://doi.org/10.35629/2532-11073338 |
| 11 | Dr Vinod B R | July 2025 | Comparative analysis of machine learning models for predicting effective stress parameters in unsaturated soils | Modeling Earth Systems and Environment | Scopus | Q1 | – | https://doi.org/10.1007/s40808-025-02540-7 |

## Academic Year 2024-25

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 1 | Dr Aruna G | 28.02.2025 | Axial compression behavior of edge stiffened C-profile aluminium alloy: a finite element analysis | Matéria (Rio J.) | WOS & Scopus | Q3 | SCIE | https://doi.org/10.1590/1517-7076-rmat-2024-0720 |
| 2 | Dr Aruna G | 31.01.2025 | Influence of Carbon Nanotubes as an additive on fresh, mechanical and adsorption characteristics of hybrid fibre reinforced self-compacting concrete | Matéria (Rio J.) | WOS & Scopus | Q3 | SCIE | https://doi.org/10.1590/1517-7076-rmat-2024-0720 |
| 3 | Archana K | 27.11.2024 | Optimization of Irrigation Requirements for the Markonahalli Command Area Using the SWAT Model | Journal of Engineering | Scopus | Q3 | – | https://doi.org/10.1155/je/8480722 |
| 4 | Chandrashekharappa Agasnalli1, M. S. Deepak, Anupkumar G. Ekbote1 | 10.08.2024 | Gold Mineralisation and their Lithological Controls at Nagavi Area, Gadag Schist Belt, in Karnataka, India | Journal of Mines, Metals and Fuels | WOS & Scopus | Q4 | – | https://doi.org/10.18311/jmmf/2024/44558 |

## Academic Year 2023-24

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 1 | Dr Rajesh Gopinath | 15.06.2024 | Relative analysis for carbon sequestration potential of prominent private and public green spaces in Bengaluru, India | Civil and Environmental Engineering Reports | WOS & Scopus | Q4 | – | https://doi.org/10.59440/ceer/189915 |
| 2 | Vinod B R | 01.02.2024 | Study on nanosized Al2O3 and Al2O3-SiC on mechanical, wear and fracture surface of Al7075 composites for soil anchoring applications | Physics and Mechanic | Scopus | Q2 | – | https://doi.org/10.18149/MPM.5162023_3 |
| 3 | Anupkumar G. Ekbote | 21.12.2023 | Study on Closely Spaced Asymmetric Footings Embedded in a Reinforced Soil Medium | Ingeniería e Investigación | WOS & Scopus | Q4 | SCIE | https://doi.org/10.15446/ing.investig.101082 |
| 4 | Chandrashekharappa Agasnalli | 15.12.2023 | Hydrogeomorphological Assessment of Kanakapura Watershed Using Geo-Spatial Technology | European Chemical Bullitin | Scopus | Q3 | – | https://www.bohrium.com/en/paper-details/hydrogeomorphological-assessment-of-kanakapura-watershed-using-geo-spatial-technology/1218411015285243905-2000000 |
| 5 | Chandrashekharappa Agasnalli | 15.12.2023 | A Study of Banded Hematite Quartzite (BHQ) in Mallasamudra Area, Gadag Schist Belt, Karnataka, India | Journal of Mines, Metals and Fuels | Scopus | Q4 | – | https://doi.org/10.18311/jmmf/2023/35225 |
| 6 | Dr Rajesh Gopinath | 02.11.2023 | An investigation into the influence of public green spaces for the climate of Bengaluru | Present Environment and Sustainable Development | WOS & Scopus | Q4 | – | https://doi.org/10.47743/pesd2023172007 |

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 7 | Rajakumar H N | 27.09.2023 | Evaluation of optimal route selection for public transport network routes on urban roads using Fuzzy-TOPSIS method | Engineering Reports | Scopus | Q2 | – | https://doi.org/10.1002/eng2.12794 |
| 8 | Anupkumar G. Ekbote | 10.08.2023 | Behaviour of interfering embedded footings laid in unreinforced and reinforced sand medium | Current Science | WOS & Scopus | Q2 | SCIE | https://doi.org/10.18520/cs/v125/i4/392-400 |

## Academic Year 2022-23

| Sl. No. | Name of the Faculty | Date Published | Title of the Paper | Name of the Journal | Scopus / WoS | Quartile | SCI / SCIE | DOI |
|---|---|---|---|---|---|---|---|---|
| 1 | Dr Chandrashekharappa Agasnalli, M. S. Deepak | 18.11.2022 | Structural Controls on Gold Mineralisation in Nagavi Area, Gadag Schist Belt, Karnataka, India | Journal of Mines, Metals & Fuels | Scopus | Q4 | – | https://doi.org/10.18311/jmmf/2022/31427 |
| 2 | Anupkumar G. Ekbote , Deepak M S | 18.11.2022 | Behavioural Assessment On Influence Of Adjacently Placed strip Footings At Different Embedment Level | Architecture Civil Engineering Environment | WOS | Q3 | – | https://doi.org/10.2478/ACEE-2022-0041 |
| 3 | Dr Rajesh Gopinath | 2023 | Spatial and temporal real-time ambient carbon monoxide ward–wise mapping for Bengaluru city | Present Environment and Sustainable Development | WOS & Scopus | Q4 | – | https://doi.org/10.47743/pesd2023172007 |

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# Details of Publication in Conference

## Academic Year 2025-26

| Sl. No. | Name of the Faculty | Title of the Paper | Name of the Proceedings | Name of the Conference | Venue | Date | DOI |
|---|---|---|---|---|---|---|---|
| 1 | Mrs Shimna M | Advancing Soil Testing towards Sustainability: A Novel Imaging Approach for Deformation Analysis | Proceedings of DFI-INDIA 2024 (Springer), pp. 445–453 | DFI-INDIA 2024, Deep Foundations Institute of India with Indian Geotechnical Society, Goa Chapter | Panaji, Goa | October 2025 | https://doi.org/10.1007/978-3-031-90928-X |
| 2 | Aruna G (with Manisha Rangu, Sudharsan N, Praburanganathan S) | Unveiling the Potential of Recron Fiber-Reinforced High-Performance Concrete: A Study on Auracast102 and Partial Cement Replacement with Diverse Mineral Admixtures | AIP Conference Proceedings | Fifth International Conference on Advances in Physical Sciences and Materials (ICAPSM 2024) | Kangeyam, Tamil Nadu | 17.07.2025 | https://doi.org/10.1063/5.0348472 |
| 3 | Aruna G (with Manoj Kumar J, Sudharsan N, Praburanganathan S) | Heat Shock Resilience of Geopolymer Concrete: Integrating Industrial Wastes for Sustainable Eco-Friendly Construction | AIP Conference Proceedings | Fifth International Conference on Advances in Physical Sciences and Materials (ICAPSM 2024) | Kangeyam, Tamil Nadu | 17.07.2025 | https://doi.org/10.1063/5.0348475 |

## Academic Year 2024-25

| Sl. No. | Name of the Faculty | Title of the Paper | Name of the Proceedings | Name of the Conference | Venue | Date | DOI |
|---|---|---|---|---|---|---|---|
| 1 | Dr Aruna G | Experimental investigation on cold-formed steel channel beams with embossments | AIP Conference Proceedings | International Conference on Advancements In Construction Materials | Hyderabad | 22.07.2024 | https://doi.org/10.1063/5.0224959 |
| 2 | Dr Aruna G | Strength assessment of unistone concrete paver formed with partial substitution of ferrosilicon waste-reject as cement alternate and Robo-sand as fine aggregate alternate | AIP Conference Proceedings | International Conference on Advancements In Construction Materials | Hyderabad | 22.07.2024 | https://doi.org/10.1063/5.0224934 |

## Academic Year 2023-24

| Sl. No. | Name of the Faculty | Title of the Paper | Name of the Proceedings | Name of the Conference | Venue | Date | DOI |
|---|---|---|---|---|---|---|---|
| *NIL* | | | | | | | |

## Academic Year 2022-23

| Sl. No. | Name of the Faculty | Title of the Paper | Name of the Proceedings | Name of the Conference | Venue | Date | DOI |
|---|---|---|---|---|---|---|---|
| 1 | Dr Aruna G | The Impact of castoff aggregate on the fresh and mechanical behaviour of high-range water reducer administered self-compacting concrete | Materials Today: Proceedings | International Conference on Advances in Construction Materials and Structures | India | 16.03.2023 | https://doi.org/10.1063/5.0224959 |
| 2 | Dr Deepak M S Anupkumar G. Ekbote1 | Strength enhancements across various parts in intermediate and edge stiffened angle sections due to cold-forming | Materials Today: Proceedings, Vol. 65, Part 2 | International Conference on Advances in Construction Materials and Structures | India | 6 .08.2022 | 10.1016/j.matpr.2022.04.308 |
| 3 | Dr Deepak MS Dr. Chandrashekharappa A | Global view of lateritic soil improvement for construction purposes in tropical countries | Materials Today: Proceedings, Vol. 65, Part 2 | International Conference on Advances in Construction Materials and Structures | India | 6 .08.2022 | 10.1016/j.matpr.2022.05.158 |
| 4 | Dr Deepak MS | M20 – Grade pervious concrete using industrial waste and artificial aggregates in proportions | Materials Today: Proceedings | International Conference on Advances in Construction Materials and Structures | India | 20.04.2023 | 10.1016/j.matpr.2023.04.204 |
| 5 | Dr. Chandrashekharappa A | Integrated assessment of granite and basalt rocks as building materials | Materials Today: Proceedings, | International Conference on Emerging Trends in Material Science and Technology – 2022. | India | 23.06.2022 | 10.1016/j.matpr.2022.03.546 |

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# Details of Book Chapters

## Academic Year 2025-26

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 1 | Dr B R Vinod | January 2026 | Springer Lecture Notes in Civil Engineering, ISBN 978-981-95-3775-4, pp. 1–19 | A Case Study on Revolutionizing Water Treatment: Innovations and Technological Advancements for Achieving Sustainable Development Goals (SDGs) | https://doi.org/10.1007/978-981-95-3775-4 | Berlin |
| 2 | Rajesh Gopinath, B R Vinod | January 2026 | Springer Lecture Notes in Civil Engineering, Vol. 757, ISBN 978-981-96-1553-7, pp. 247–264 | Optimum Replacement of Coarse Aggregates with E-Waste Ceramics for a Rigid Pavement | https://doi.org/10.1007/978-981-96-1553-7_19 | Singapore |
| 3 | Shobha R, Vinod B R | January 2026 | Springer Lecture Notes in Civil Engineering, Vol. 2, ISBN 978-981-95-3203-2, pp. 83–94 | Manufacturing of Lightweight Kerbstone by Utilizing the Waste Milk Cover | NA | Singapore |
| 4 | V. Athiyamaan | 02.07.2025 | Springer Lecture Notes in Civil Engineering | Study on the Impact of Mineral Admixtures and Packing Factor in Enhancing the Performance of Concrete | https://doi.org/10.1007/978-981-99-9502-8_45 | Singapore |
| 5 | B R Vinod | July 2025 | Springer Lecture Notes in Civil Engineering, Vol. 570, ISBN 978-981-96-1553-7, pp. 35–45 | Stability Analysis of Reinforced Soil Embankments with Alccofine, Glass Fibres, Metal Mesh, and Geogrid | https://doi.org/10.1007/978-981-96-1554-4 | Singapore |
| 6 | Anupkumar G Ekbote (with M S Deepak, Chandrashekharappa Agasnalli) | July 2025 | Springer Lecture Notes in Civil Engineering, Vol. 570, ISBN 978-981-96-1553-7, pp. 15–24 | Application of Nano-Silica and Polypropylene Fibres to Enhance the Undrained Shear Strength of Black Cotton Soil | https://doi.org/10.1007/978-981-96-1554-4_2 | Singapore |
| 7 | Anupkumar G Ekbote (with M S Deepak, Chandrashekharappa Agasnalli) | July 2025 | Springer Lecture Notes in Civil Engineering, Vol. 570, ISBN 978-981-96-1553-7, pp. 25–33 | Numerical Investigation of Strip Footing Interference on Saturated Foundation Medium | https://doi.org/10.1007/978-981-96-1554-4_3 | Singapore |

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 8 | Chandrashekharappa Agasnalli (with Anupkumar G Ekbote, M S Deepak, T K Lakkundi) | July 2025 | Springer Lecture Notes in Civil Engineering, Vol. 571, pp. 25–34 | Gold mineralisation and their lithological controls at Nagavi Area, Gadag Schist Belt, in Karnataka, India | https://doi.org/10.1007/978-981-96-1558-2_8 | Singapore |

## Academic Year 2024-25

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 1 | Dr. M. S. Deepak | Oct-24 | In: High-performance Sustainable Materials and Structures, ICAMMS 2024, Sustainable Civil Infrastructures, pp. 343–361, Springer | Optimization of Cold-Formed Steel Perforated Sections Subjected to Bending | https://doi.org/10.1007/978-3-031-72527-2_27 | Cham |
| 2 | Dr Vinod B R | 09.09.2024 | Springer Lecture Notes in Civil Engineering | Effect of Bagasse Ash and Ferric Chloride on Modification of Soil Properties | https://doi.org/10.1007/978-981-97-4852-5_33 | Singapore |

## Academic Year 2023-24

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 1 | Dr Vinod B R | 07.05.2024 | Wiley Publishers United States | Removing Algae and Moss Growth on Compressed Stabilized Earth Block Wall Surface by Laser Cleaning | https://doi.org/10.1002/9781394214655.ch6 | – |
| 2 | Dr Vinod B R | 07.05.2024 | Wiley Publishers United States | A Review of the Effects of Laser Cleaning on the Development of Corrosion and the Removal of Rust in Steel Bridges in Marine Environments | https://doi.org/10.1002/9781394214655.ch7 | – |
| 3 | Dr Vinod B R | 07.05.2024 | Wiley Publishers United States | A Review of the Applications of the Laser Crack Measurement for White Topping Road | https://doi.org/10.1002/9781394214655.ch7 | – |
| 4 | Dr Vinod B R | 13.04.2024 | Lecture Notes in Civil Engineering (LNCE), Environmental Engineering for Ecosystem Restoration, Springer Nature Singapore Pte Ltd. 2024 | Assessment of the Carbon Footprint of Green Concrete Liners in Landfill Construction—A Critical Review | https://doi.org/10.1007/978-981-97-0910-6_21 | Singapore |
| 5 | Dr Vinod B R | 06.03.2024 | Nova Science Publishers | A Review on the effective usage of aramid fibers for interlocking lightweight mud blocks with high strength | https://doi.org/10.52305/EWVP0213 | New York |
| 6 | R Shobha , Dr B. R. Vinod | 06.03.2024 | Nova Science Publishers | Pineapple fiber as an Effective Thermal Insulator Compared to other Insulating Materials | https://doi.org/10.52305/EWVP0213 | New York |

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 7 | Dr Vinod B R | 06.03.2024 | Nova Science Publishers | An overview of the use of polymeric Nanofibers in stabilized Mud Blocks | https://doi.org/10.52305/EWVP0213 | New York |
| 8 | Dr Rajesh Gopinath | 10.02.2024 | Water and Environment - Volume 1: Proceedings of ICWROEE 2024 ~ Lecture Notes in Civil Engineering | Design and Development of Sensor-Based Cost-Effective Prototype for Early-Warning and Monitoring of Urban Floods in Smart Cities | https://doi.org/10.1007/978-981-97-7699-3_6 | NIT Silchar |
| 9 | K. Archana, Dr M. S. Deepak, | 2024 | In: Recent Advances in Structural Engineering, Lecture Notes in Civil Engineering (LNCE), Vol. 455, pp. 523–542, Springer | Study on Development of FRC and Its Application in Sluice Gate | https://doi.org/10.1007/978-981-99-9502-8_45 | Singapore |

## Academic Year 2022-23

| Sl. No. | Name of the Faculty | Date Published | Book / Chapter Details | Title of the Chapter | DOI / Web Link | Place |
|---|---|---|---|---|---|---|
| 1 | Dr. M. S. Deepak | 2022 | In: Recent Advances in Civil Engineering, Lecture Notes in Civil Engineering, Vol. 256, pp. 617–644, Springer | Exclusion of Non-value Efforts in Construction Projects | https://doi.org/10.1007/978-981-19-1862-9_39 | Singapore |
| 2 | Dr. M. S. Deepak | 2022 | In: Recent Advances in Structural Engineering and Construction Management, Lecture Notes in Civil Engineering, Vol. 277, pp. 351–360, Springer | Improvements in Tensile Strength Properties of Steel after Forming | https://doi.org/10.1007/978-981-19-4040-8_29 | Singapore |
| 3 | Dr. M. S. Deepak | 2022 | In: Recent Advances in Structural Engineering and Construction Management, Lecture Notes in Civil Engineering, Vol. 277, pp. 35–46, Springer | Numerical Investigation on Built-Up Cold-Formed Steel Double Decker-I-Beams | https://doi.org/10.1007/978-981-19-4040-8_4 | Singapore |