DEPARTMENT OF MECHANICAL ENGINEERING GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

**(AUTONOMOUS)**

**KRISHNAGIRI- 635 104, TAMILNADU**

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

1. **Name :** Vinothkumar C
2. **Designation :** Assistant Professor (ADHOC)
3. **Department :** Mechancial Engineering
4. **Institute Name :** Government College of Engineering Bargur
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8. **Date of Birth :** 05.06.1990
9. **Sex (M/F) :** Male
10. **Academic Qualification (Undergraduate Onwards)**

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| --- | --- | --- | --- | --- |
| S.No. | **Institution Place** | **Degree Awarded** | Year | **Field of Study** |
| 1. | VIT,Vellore | Ph.D (OnGoing) | 2020 Joined | Surface Coating On Mg Alloy For Bio Medical Application |
| 2. | Anna University/Andal Alagar College Of Engineering | M.Tech | 2015 | Manufacturing Engineering |
| 3. | Anna University / Adhiparasakthi Engg College, Melmaruvathur | BE | 2011 | Mechanical Engineering |

1. **Professional Career:**

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| --- | --- | --- | --- | --- |
| S.No. | Positions held | Name of the Institute | From | To |
| 1 | Assistant Professor (ADHOC) | Government College of Engineering, Bargur | 11.03.2024 | Till date |

13. Publications list*.*

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Research papers,****Reports** | **General Articles** | **Others (Please****Specify)** |
| **Number** | 4 |  |  |
| **Titles** | 1. Insights on Anti-corrosion Coating of Magnesium Alloy: A Review.
2. Investigation of the morphological studies of a Composite Coating Comprising (anatase TiO2, CeO2and HAp) on Magnesium Alloy AZ31B using the Plasma Electrolytic Oxidation (PEO) Method for Orthopedic Implants.
3. Insights from Degradation and Anti-Corrosive Coating on Magnesium Alloy for Biomedical Applications: A Review.
4. Corrosion resistance of hybrid plasma electrolytic oxidation coatings

on AZ31B magnesium alloy in simulated body fluid. |

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| --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Author(s)** | **Title** | **Name of Journal** | **Volume** | **Page** | **Ye ar** |
| 1 | Vinoth Kumar, C., Rajyalakshmi, G., & Kartha, J. | Insights on Anti-corrosion Coating of Magnesium Alloy: A Review. | Journal of Bio-and Tribo- Corrosion. | Online | 9(1),13 | 2023 |
| 2 | Vinoth Kumar, C., Rajyalakshmi, G | Corrosion resistance of hybrid plasma electrolytic oxidation coatings on AZ31B magnesium alloy in simulated body fluid | Corrosion Engineering, Science and Technology. | Online | 59(3),205-219. | 2024 |
| 3 | Vinoth Kumar, C., Rajyalakshmi, G. | Investigation of the morphological studies of a composite coating comprising anatase TiO2, CeO2and HAp on magnesium alloy AZ31B using the plasma electrolytic oxidation (PEO) method for orthopedic implants | International Journal of Materials Research (formerly: Zeitschrift fuer Metallkunde) | Accepted | - | 2024 |

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| --- | --- | --- | --- | --- | --- | --- |
| 4 | Vinoth Kumar, C., Rajyalakshmi, G. | Insights from Degradation and Anti-Corrosive Coating on Magnesium Alloy for Biomedical Applications: A Review. | Transactions of the Indian Institute of Metals. | Accepted | - | 2024 |