| **FACULTY PROFILE FORMAT (Format 3)** | | |
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| **Staff Name** | : | G D VIGNESH |
| **Faculty ID** | : | 3123415 |
| **Designation** | : | Assistant Professor |
| **Qualification** | : | ME Communication System |
| **Teaching Experience** | : | 8 years 3 months |
| **Area of Specialization** | : | Wireless Communication & Cognitive Radio Networks , WSN |
| **Subjects Handled** | : | Wireless Communication  Adhoc & WSN  Satellite Communication  Communication Engineering  Wireless Networks |
| **Books Published** | : | Published a **book** on **“Advances in Computer Science and Artificial Intelligence”,** Authors: Dr.GN Balaji, Dr.AM Balamurugan, Dr.AKP Kovendan, **Mr.GD Vignesh.** Publisher: COSMAS Scientific Publications, ISBN: 978-81-19359-39-4 (2023). |
| **Journals Published** | : | 1.Deep reinforcement learning for comprehensive route optimization in elastic optical networks using generative strategies by Renjith, PN ; Sujatha, G ; Vinoth, M ; **Vignesh, GD**; Prabhu, MR ; Mouleswararao, B, Volume 55 Issue 13 (1197) DEC 2023. DOI: 10.1007/s11082-023-05501-5.  2.Adaptive rate and modulation scheme for M2M communication using quantum optical and 5G communication by Chillakuru, PD ; **Vignesh, GD** ; Maheswari, S ; Sabeenian, RS ; Mouleswararao, B ; Markkandan, S, Volume55 Issue 11 (1021) NOV 2023. DOI: 10.1007/s11082-023-05373-9.  3.Empowering sustainable farming practices with AI-enabled interactive visualization of hyperspectral imaging data by Subudhi, S., Dabhade, R.G., Shastri, R., **Vignesh, G.D.,** Chaturvedi, A. Measurement: Sensors, 2023, 30, 100935.  4.Sensor data fusion techniques in the construction of generalized VORONOI graph for on-line motion planning in robot navigation by **Vignesh G.D.,** Ramu A., Raja, J.T., Haldorai, A., Senthil Kumar, G. International Journal of System Assurance Engineering and Management, 2022.  **5. Design of Social Distance Monitoring Approach Using Wearable Smart Tags in 5G IoT Environment During Pandemic Conditions** by[Molina-Granja, F.](https://www.scopus.com/authid/detail.uri?authorId=57204458096), [Lozada-Yánez, R.](https://www.scopus.com/authid/detail.uri?authorId=57204770301), [Santacruz-Sulca, F.J.](https://www.scopus.com/authid/detail.uri?authorId=57211904273),  [**Vignesh, G.D**.](https://www.scopus.com/authid/detail.uri?authorId=57203344932),  [Swaminathan, J.N.](https://www.scopus.com/authid/detail.uri?authorId=55557892300)Smart Innovation, Systems and Technologies, 2023, 312, pp. 731–740. |
| **Conference /Workshop Attended** | : | 1. Five days Online STC on SCILAB for Beginners at NITTR, Chandigarh from 24-7-2023 to 28-7-2023. 2. Five days Online AU sponsored FDP on Antennas & Microwave Engineering at Karpagam Institute of Technology, Coimbatore from 14-6-2021 to 19-6-2021. 3. Five days Online AU sponsored FDP on Signals and Systems at Dr.Mahalingam College of Engineering & Technology, Pollachi from 7-6-2021 to 12-6-2021. 4. Five days Online AU sponsored FDP on Electronic Circuits-I at MIT, Chennai from 24-5-2021 to 29-5-2021. |
| **Patent Details** | : | 1. AI-Driven Statistical Analysis of Social Media Data for Enhanced Event Promotion and Audience Interaction.  2. A MULTI-AGENT AI SYSTEM FOR COLLABORATIVE MUSIC COMPOSITION AND PERFORMANCE.  3. IOT ENABLED EDGE COMPUTING SYSTEM FOR SMART AGRICULTURE APPLICATIONS. |
| **Funded Project Details** |  | NIL |