

Dr. Ajay K M

Assistant Professor		
Educational Qualification	Ph.D (VTU), M.Tech(VLSI Design & Embedded Systems)	
Experience	Teaching: 13 Years	
Area of Interest	Energy Storage Devices, Nano materials synthesis and Characterizations	
Date of Joining at RVCE	01/08/2011	
Email ID	ajaykm@rvce.edu.in	

Project Guided:

Number of UG projects guided: 11

Publications:

International Journals: 07

international Conference: 05

List of Paper Publications

International Journals:

1. Kashish Malhotra, Revathi M S, Uma B V, **Ajay K M**, "Architectural framework and register-transfer level design synthesis for cost-effective smart eyewear", Indonesian Journal of Electrical Engineering and Computer Science Vol. 31, No. 1, pp. 88~97 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v31.i1.pp88-97, July 2023.
2. **Ajay K M**, Dinesh M N, Yashaswini M, Vijeth H, "Natural Biomass-derived Microporous Activated Carbon electrodes for Supercapacitor Applications", Chemistry Select 2022, 7, e202201301, **Wiley-VCH GmbH**, 2022. doi.org/10.1002/slct.202201301.
3. A. Naveen Kumar , D.M. Jnaneshwara , C.R. Ravikumar, S.C. Prashantha ,**Ajay K M**, "A Comparative Cyclic Voltametric Study on Rare Earth (Eu, Sm, Dy, and Tb) Ions Doped La₁₀Si₆O₂₇ Nanophosphors for Sensor Application", **Hindawi** Advances in Materials Science and Engineering Volume 2022, Article ID 7429133, 13 pages, <https://doi.org/10.1155/2022/7429133>.
4. **Ajay K M**, [Dinesh. M.N.](#), [Kathyayini. N.](#), [Vijeth. H.](#) "Electrochemical investigations on low cost KOH activated carbon derived from orange-peel and polyaniline for hybrid supercapacitors", *Elsevier: Inorganic Chemistry Communications*, Volume 127, May 2021, <https://doi.org/10.1016/j.inoche.2021.108523>.
5. M. Muralidhar Singh, Harinandan Kumar, G. Hemath Kumar, P. Sivaiah, K. V. Nagesha, **Ajay K M**, G. Vijaya, "Determination of Strength Parameters of Glass Fibers Reinforced Composites

for Engineering Applications" Silicon, Springer
Nature <https://doi.org/10.1007/s12633-019-0078-3>, 2020.

6. Muralidhar Singh M., Harinandan Kumar, G. Hemath Kumar, P. Sivaiah, K. V. Nagesha, **Ajay K M**, Vijaya G, "Evaluation of Multilayer Thin Film Coatings for Solar Thermal Applications", Arabian Journal for Science and Engineering, <https://doi.org/10.1007/s13369-019-03904-9>, 2019.
7. Muralidhar Singh M, K.V. Nagesha, Gurubasavaraju TM , Harinandan Kumar, **Ajay K M** and Vijaya G, "Evaluation of Mechanical Properties of Polymer Composites Profiles for Marine Applications" Grenze International Journal of Engineering and Technology, Special Issue, Grenze ID: 01.GIJET.4.3.67, Grenze Scientific Society, Volume 4, Issue 4, 2018, Pages 343-347

International Conference:

1. **Ajay K M**, Gaurav Mishal, Siddanna, Shivayogi. B. N, M. N. Dinesh, "Performance Studies of Biomass derived RHAC and MgO Nanocomposite Electrode Material for Supercapacitor Applications", ICTSGS -2021, Japan (Virtual Conference) Paper is publishing in ECS Transactions in March 2022.
2. **Ajay K M**, M N Dinesh, K A Vishnu Murthy, C.R. Ravikumar, H P Nagaswarupa, "Deposition & Electrochemical characterization of Multilayer coated electrode material for super capacitor application", ICSEM-2017 *Materials Today: Proceedings*, ISBN: 22147853, 2018, DOI: [10.1016/j.matpr.2018.6.554](https://doi.org/10.1016/j.matpr.2018.6.554)
3. **K M Ajay**, M N Dinesh "Influence of various Activated Carbon based Electrode Materials in the Performance of Super Capacitor", IconAmma-17, Paper Published in *IOP Conf. Series: Materials Science and Engineering*, 2018, 310(1) ISBN: 1757899X 17578981 DOI: [10.1088/1757-899X/310/1/012083](https://doi.org/10.1088/1757-899X/310/1/012083)
4. **Ajay K M**, M N Dinesh, "Synthesis and characterization of Deccan hemp plant- based electrode material for Supercapacitor applications", ICPN-2019, *AIP Conference Proceedings*, ISBN: 15517616 0094243X, DOI: [10.1063/5.0009000](https://doi.org/10.1063/5.0009000)
5. **Ajay K M**, M N Dinesh "Performance studies of Bamboo based Nano Activated carbon electrode material for super capacitor applications", *Materials Today: Proceedings*, 2020 ISSN: 2214-7853 DOI: [10.1016/j.matpr.2020.09.691](https://doi.org/10.1016/j.matpr.2020.09.691)

Other Roles and Responsibilities, Achievements

1. **Trainer for the RVCE-MG Nurture Electric Vehicle car.** RVCE in association with industry partner MG Motor India Pvt. Ltd., offers career-oriented certification course in Electric Vehicle Technology. The programme covers in-depth the Electric Vehicle technologies incorporated in ZS EV car, with greater focus on practical / lab sessions, Internship at MG Dealers and project work in the domain of Electric Vehicle Technology.

Technical Talks Delivered and Workshops, FDPs Participated

1. Delivered a technical talk on "**Design Thinking aspects of E- Mobility**" in AICTE Sponsored workshop on 12th December 2021.
2. Delivered a talk on "**Effective Student Centered Teaching**" on 27th Sept 2021 Organized by Center for Education and Digital Learning RVCE.

3. Delivered a technical talk on ***“Advancements in Energy storage devices for Electric Vehicles”*** on 5.9.2019 in a TEQIP Sponsored workshop at Poojya Doddappa Appa College of Engineering, Gulbarga.
4. I have participated in more than 20 faculty development programs organized by AICET and other esteemed institutions all over the India.