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Industry Certified Internship

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Internship Modules for Engineering students

Module	Sub modules	Contact
M1. Polymer Based Thin Film Sensors/Membranes for Functional Applications	• Electrospinning process for sensors • Polymer thin films for sensors • Electrospun nanofibers for biomedical applications • Numerical analysis of thin films • Study of Electrical, Piezoelectric & Mechanical Properties of polymer films for wearable electronics • EMI Shielding using Polymer composites • Sensors for Wearable electronics • Fabrication (Spin coating, Electrospinning, Solution Casting) & Characterization of polymer thin films • Stretching effect on thin films • Design and development of sensors for the detection of toxic gasses • Cellulose based bio-polymer for thermal insulation.	• Dr Gangadhar Angadi Assistant Professor Mechanical Dept, RVCE E-mail: gangadharangadi@rvce.edu.in • Dr Roopa T S Assistant Professor Mechanical Dept, RVCE E-mail: roopats@rvce.edu.in • Dr V Mamtha Assistant Professor Mechanical Dept, RVCE E-mail: mamthav@rvce.edu.in • Dr Sham Aan M P Assistant Professor Mechanical Dept, RVCE E-mail:shamaan.mp@rvce.edu.in • Dr Vishnumurthy K A Assistant Professor, Chemistry Dept, RVCE E-mail: vishnumurthyka@rvce.edu.in • Dr. Ramya P Assistant Professor, Physics Dept, RVCE E-mail: ramyap@rvce.edu.in
M2. Laser Surface Texturing of Materials	• Live demonstration of Laser Surface Texturing Machine – Operation and parametric study • Live demonstration of Measurement of responses – Optical Microscope, Tally Surf – Surface Roughness, • Measurement of responses using Gwyddion software and Minitab for statistical analysis	• Dr Bharatish A Assistant Professor Mechanical Dept, RVCE E-mail: bharatisha@rvce.edu.in

	• Simulation of the process using COMSOL Multiphysics • Surface texturing of 3D printed substrates	
M3. Fabrication and Characterization of Coatings	• Preparation and Characterization of chalcogenide Materials for phase change memory applications • Design and implementation of Electronic Biosensor for Physiological variation • Design, fabrication, characterization, and applications of metal oxide thin films for sensing and electronics applications.	• Dr. Shylashree N Associate Professor ECE Dept, RVCE E-mail: shylashreen@rvce.edu.in • Dr Vishnumurthy K A Assistant Professor, Chemistry Dept, RVCE E-mail: vishnumurthyka@rvce.edu.in • Dr. Ramavenkateswaran N Assistant Professor ECE Dept, RVCE Email: ramavenkateswarann@rvce.edu.in
M4. Sensor Modelling	• ML based Sensor Modelling & Data Analytics using python • MEMS based sensor and device modelling using COMSOL	• Prof. Ravishankar Holla Assistant Professor ECE Dept, RVCE E-mail: ravishankarholla@rvce.edu.in • Dr. Rachana. S. Akki Assistant Professor Dept of E & I, RVCE E-mail: rachana.akki@rvce.edu.in
M5. Modelling Of Futuristic Nano Electronics Devices and Sub-10 Nm MOSFET	• Quantum Wells, Wires and Dots simulation and analysis for emerging quantum computing • Stanford 2D Semiconductor Quasi-Ballistic Transistor Compact Model for modern sub-10 nm MOSFET • Carbon Nanotube (CNT) and Carbon Nanowire FET for next generation processors • TCAD simulation of thin film transistor for flexible electronics display & circuits	• Dr. Ramavenkateswaran N Assistant Professor ECE Dept, RVCE Email: ramavenkateswarann@rvce.edu.in
M6. Numerical Simulation to Study Materials	• Characterization of the porosity of a material • Simulating the effect of agglomeration in thin film deposition • Correlated interface in multilayer graphene-aa and ab • Studying the tunability of the band gap of multilayer graphene	• Dr Tribikram Gupta Assistant Professor Physics Dept, RVCE Email: tgupta@rvce.edu.in

	• Calculating the optical conductivity in bi-layer graphene • Calculating the transverse conductivity in bi-layer graphene	
M7. Sensor and Supercapacitor	• Graphene based nanocomposite for supercapacitor • Carbon quantum dots-based nanocomposite for sensor application • Graphitic Carbon- ferrite nanocomposite materials for gas sensor applications	• Dr. Hareesh K Assistant Professor Physics Dept, RVCE Email: hareeshk@rvce.edu.in • Dr Divakara S G Assistant Professor Chemistry Dept, RVCE Email: divakarsg@rvce.edu.in
M8. Digital Gamma Spectroscopy Using Python Programming	• Positron lifetime and energy resolution studies from annihilation data using python programming	• Dr Karthik Shastry Assistant Professor Physics Dept, RVCE Email: karthikshastry@rvce.edu.in
M9. Wearable Circuit Design	• Design of signal acquisition and conditioning circuit for energy harvesting systems and wearable sensors • Design and Simulation of Wearable Antennas	• Dr. Ramavenkateswaran N Assistant Professor ECE Dept, RVCE • Email: ramavenkateswarann@rvce.edu.in

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