FACULTY WEBSITE PROFILE

Name of The Faculty	Dr. Sowmya. B 
Designation	Assistant Professor
Qualification	B.E, PhD
E Mail ID	drsowmya@jssstuniv.in
LinkedIn ID	
ORC ID	0009-0005-0674-9287
Contact Number	9538656149
Work Experience	
1. Teaching	3 Years
2. Industry	-
3. Research	2 Years
4. Other	-
Area of Specialization	Polymer Science Biomaterials Electrospinning
Subject Taught	
1. Under Graduate Level	• Polymer Chemistry & Kinetics • Polymer Physics • Polymer Analysis & Evaluation • Novel Plastics & Rubbers • Processing Technology - i • Natural & Biodegradable Polymers • Biomaterials
2. Post Graduate Level	• Materials Science & Engineering • Smart Materials • Advanced Characterization Techniques • Materials Structure – Property Relationship
Research Guidance	
1. Under Graduate Level 2. Post Graduate Level	**NIL**

3. PhD	
Publication Details	
1. Inter National Journal 2. National Journal 3. Conferences Patents Book Published	**Research articles** 1) Sowmya, B., & Panda, P. K. (2022). **Electrospinning of poly (ε-caprolactone)(PCL) and poly ethylene glycol (PEG) composite nanofiber membranes using methyl ethyl ketone (MEK) and N N'-dimethyl acetamide (DMAc) solvent mixture for anti-adhesion applications**. *Materials Today Communications*, 33, 104718. https://doi.org/10.1016/j.mtcomm.2022.104718. 2) Sowmya, B., & Panda, P. K. (2022). **Fabrication and characterization of super-hydrophilic poly (ε-caprolactone)/hydroxypropyl methylcellulose (HPMC) based composite electrospun membranes for tissue engineering applications**. *Progress in Biomaterials*, 1-12. https://doi.org/10.1007/s40204-022-00205-7. 3) Sowmya, B., & Panda, P. K. (2023). " **Electrospun poly (ε-caprolactone)/beeswax based super-hydrophobic anti-adhesive nanofibers as physical barriers for impeding fibroblasts invasion"**. Journal of Biomaterials Applications, https://doi.org/10.1177/08853282231212604 **Review articles** 1) Sowmya, B., John, A., & Panda, P. K. (2021). "**A review on metal-oxide based pn and nn heterostructured nano-materials for gas sensing applications"**. *Sensors International*, 100085. https://doi.org/10.1016/j.sintl.2021.100085 2) Sowmya, B., Hemavathi, A.B. & Panda, P.K. "**Poly (ε-caprolactone)-based electrospun nano-featured substrate for tissue engineering applications: a review"**. *Prog Biomater* **10,** 91–117 (2021). https://doi.org/10.1007/s40204-021-00157-4
Research Projects / Consultancy Undertaken	
1. Funding Agency 2. Fund Received (In Rs)	**NIL**
FDP /STTP/Technical Seminar Organised	**NIL**

and Participated as a Resource Person	
Achievements	**NIL**
Professional Membership	**NIL**