



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

List of PhD Supervisors FACULTY OF ENGINEERING

Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
1	Dr. Ketan Kotecha	Artificial Intelligence, Machine learning, Deep learning	Artificial Intelligence, Machine learning, Deep learning	Professor, Director and Dean, Faculty of Engineering	Symbiosis Institute of Technology Pune	deanfoengg@siu.edu.in
2	Dr. Tarun Pratap Singh	Geospatial Sciences	Spatial Data Modelling	Professor and Director	Symbiosis Institute of Geoinformatics Pune	director@sig.ac.in
3	Dr. Yogesh Patil	Chemistry	Environmental Biochemistry	Professor & Head – Research Publications	Symbiosis Centre for Research and Innovation (SCRI) Symbiosis International University Pune	head_respub@siu.edu.in
4	Dr. Arundhati Warke	Mathematical Modelling	Mathematical modeling of fluid flow, heat and mass transfer, non-linear gas dynamics waves	Professor	Symbiosis Institute of Technology Pune	arundhاتيw@sitpune.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
5	Dr. Kanchan Khare	Hydraulics, Water Resources	Experiential Hydraulics, Environmental Hydraulics, Soft Computing	Professor	Symbiosis Institute of Technology Pune	kanchan.khare@sitpune.edu.in
6	Dr. Neela R	Digital Signal Processing	Digital signal processing, Multirate systems and filter banks their applications in the areas of communications, speech processing, powerline communications and power grid monitoring	Professor	Symbiosis Institute of Technology Pune	neela.rayavarapu@sitpune.edu.in
7	Col. (Dr.) Anand Kumar Pandey	IC Engine, Alternative Fuels	IC Engine, Alternative Fuel, Karanja and Jatropa Biodiesel, GDI Engine (Gasoline Direct Injection Engine), HCCI Engine (Homogenous Charged Compression Ignition Engine)	Professor	Symbiosis Institute of Technology Pune	anand.pandey@sitpune.edu.in
8	Dr. Sanjay Pohekar	Energy Engineering and Management	Computational Fluid Dynamics, Computational heat transfer, Energy and exergy analyses	Professor & Head – Research Programs	Symbiosis Centre for Research and Innovation (SCRI) Symbiosis International University Pune	head_resprog@siu.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
9	Dr. Atul Kulkarni	Nanotechnology and Nanomaterials	Nanotechnology and Nanomaterials	Research Professor and Head	Symbiosis Centre for Nanoscience and Nanotechnology Pune	head@scnn.edu.in
10	Dr. Anand J. Kulkarni	Distributed Optimization	Bio-/Nature-inspired Optimization Algorithms, Multi-objective Optimization, Multi-Agent Systems, Cohort Intelligence, Probability Collectives, Game Theory, Graph Theory, Self-organizing Systems	Associate Professor	Symbiosis Institute of Technology Pune	anand.kulkarni@sitpune.edu.in
11	Dr. Brajesh Pandey	Material Science	Magnetic and nonmagnetic thin films, Exchange bias in thin films, spin canting in nanomaterials and thin films, Synthesis of nanomaterials with applications in memory devices, Magnetism in nanomaterials, Binary and ternary alloys	Associate Professor	Symbiosis Institute of Technology Pune	brajesh.pandey@sitpune.edu.in
12	Dr. Dipika Jaspal	Water Treatment and Technologies	Waste water treatment, dye removal	Associate Professor	Symbiosis Institute of Technology	dipikaj@sitpune.edu.in



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					Pune	
12	Dr. Himanshu Agarwal	Internet Routing	Internet of Things, lightweight security, intrusion detection in Advance metering infrastructure, mobile robotics	Associate Professor	Symbiosis Institute of Technology Pune	himanshu.agrawal@sitpune.edu.in
13	Dr. Neeru Bhagat Banerjee	Condensed Matter Physics (Material Science)	FINEMET, Study of structural and magnetic properties of Nano crystalline Alloys, magnetism, Soft Magnetic Materials, Nanoparticles, Antimicrobial and anti-bacterial properties of Nano size metal oxides, material science, spin orientation in thin layer	Associate Professor	Symbiosis Institute of Technology Pune	neeru.bhagat@sitpune.edu.in
14	Dr. Meena Laad	Biomedical Physics, Material Science	Material Science- Synthesis and characterization of composites, thermoluminescence, Nano	Associate Professor	Symbiosis Institute of Technology Pune	meena@sitpune.edu.in



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			lubricants & Nanocomposites			
15	Dr. Preeti Mulay	Machine Learning, Data Mining, Software Engineering	Machine learning, data mining, diabetes, text mining etc.	Associate Professor	Symbiosis Institute of Technology Pune	preeti.mulay@sitpune.edu.in
16	Dr. Chandrakant Sonawane	Computational Fluid Dynamics	Computational Fluid Dynamics, Fluid structure interaction, Computational/Numerical methods for : Solar, wind, (Non-conventional) apparatus, heat and mass transfer devices, efficient Refrigeration and Air conditioning systems and thermal engineering problems, etc.	Associate Professor	Symbiosis Institute of Technology Pune	chandrakant.sonawane@sitpune.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
17	Dr. Madhura Ingalhalikar	Medical Image Processing	Medical image processing and analysis. Computational mode lining and analysis of the Diffusion MRI of the brain. Creating imaging biomarkers for PD, and atypical Parkinsonian syndrome. Understanding of brain plasticity manifested through musical training using HARDI MRI imaging.	Associate Professor	Symbiosis Institute of Technology Pune	madhura.ingalhalikar@sitpune.edu.in
18	Dr. Navendu Chaudhary	Geoinformatics	spatial data analysis	Associate Professor	Symbiosis Institute of Geoinformatics Pune	navendu@sig.ac.in
19	Dr. Nitin Khedkar	Advance Manufacturing Process , Digital Manufacturing	Surface Modification by EDM, 3D Printing of composite material,	Associate Professor	Symbiosis Institute of Technology Pune	nitin.khedkar@sitpune.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
20	Dr. Shraddha Phansalkar	Big Data Analytics, Cloud Computing, Database Consistency, Blockchaining	Big Data Analytics, Cloud Computing, Database Consistency	Associate Professor	Symbiosis Institute of Technology Pune	shraddhap@sitpune.edu.in
21	Dr. Swati N. Ahirrao	Big Data Analytics, Cloud Computing, Machine Learning, Databases	Big Data Analytics, Cloud Computing, Database Scalability	Associate Professor	Symbiosis Institute of Technology Pune	swatia@sitpune.edu.in
22	Dr. Ambika Pawar	Big Data Analytics, Cloud Computing, Privacy	Big Data Analytics, Cloud Computing, Privacy	Associate Professor	Symbiosis Institute of Technology Pune	ambikap@sitpune.edu.in
23	Dr. Sumit Kumar	Wireless Communication/Networks, Embedded Systems, Antenna Design, computational intelligence	Digital/Wireless Communication, Routing Protocol for WSN, MANET, IOT and VANET(NS2, MATLAB), Antenna design(HFSS), Embedded Design, computational intelligence	Associate Professor	Symbiosis Institute of Technology Pune	kumar.sumit@sitpune.edu.in



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23	Dr. Anirban Sur	Thermal (Refrigeration and Air Conditioning , Heat Transfer, Solar/ Waste heat energy utilization)	Adsorption refrigeration, Desiccant cooling , Absorption cooling, Cooling by Solar heat or waste heat, Radiant cooling, thermal storage cooling, Heat exchanger design, HVAC, Exergy analysis, Heat capturing materials, Composite adsorbing materials	Associate Professor	Symbiosis Institute of Technology Pune	anirban.sur@sitpune.edu.in
24	Dr. Sanjay Darvekar	Automation Manufacturing Robotics and Design	Robotics, Paralle Kinematics, Design Optimization of CNC machines, Additive Manufacturing, Mechatronics, Nano material	Associate Professor	Symbiosis Institute of Technology Pune	sanjay.darvekar@sitpune.edu.in
25	Dr. Arunkumar Bongale	Material Science, Composite Materials	Nano-Composite Materials, Composite Fabrication Methods, Heat Treatment, Cryogenic Treatment on Materials.	Associate Professor	Symbiosis Institute of Technology Pune	arun.bongale@sitpune.edu.in



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26	Dr. Harikrishnan R.	Electrical and Electronics Engineering	Smart Grid, Internet of Things, Artificial Intelligence and Nature Inspired Optimization	Associate Professor	Symbiosis Institute of Technology Pune	harikrishnan.r@sitpune.edu.in
27	Dr. Shekhar Bhame	Magnetism in Oxides, Solid State Chemistry	Mgnetostrictive materials, Thermoelectricity in Oxides, Nano Materials Synthesis, Structure Property Correlation	Assistant Professor	Symbiosis Institute of Technology Pune	shekhar.bhame@sitpune.edu.in
28	Dr. Rupali Nagar	Material Science and nanomaterials	Synthesis of nanomaterials with applications in energy (fuel cells, hydrogen storage, lithium ion batteries), bio-medical and gas-sensing fields, ion irradiation, AFM/STM	Assistant Professor	Symbiosis Institute of Technology Pune	rupali.nagar@sitpune.edu.in



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29	Dr. Paresh Nasikkar	Thin Film Solar Photovoltaics (CuInGaSe ₂ (CIGS) and CdTe) and PV Materials and Systems (Renewable energy) and Electronics Instrumentation	Solar Photovoltaics (PV) Technology (Solar Energy) and PV materials (Sputtering depositions and Characterizations-SEM XRD EDS AFM and miniSIMS and optical spectrat measurements, solar cell/device characterizations, Thin Film Solar Cells (TFSC) (CIGS, Cd Te based), Solar PV Si cells, Solar PV Panels/Modules and systems and Electronic Instrumentation, Solar PV Module Industrial standards and relevant tastings (TUV, UL and IEC)	Assistant Professor	Symbiosis Institute of Technology Pune	paresh.nasikkar@sitpune.edu.in
30	Dr. Rahee Walambe	Robotics, AI, Deep Learning	Path planning and motion planning of robot, Multi robot systems, Uncertainty handling, Multi Sensor fusion, Deep learning for image analysis	Assistant Professor	Symbiosis Institute of Technology Pune	rahee.walambe@sitpune.edu.in



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31	Dr. Shah Priteshkumar Biharilal	Control System	Fractional Calculus, System Identification, process modeling	Assistant Professor	Symbiosis Institute of Technology Pune	pritesh.shah@sitpune.edu.in
32	Dr. Jayant Jagtap	Digital Image Processing	Digital Image Processing, Medical Image Processing, Pattern Recognition, Machine Learning, Computer Vision	Assistant Professor	Symbiosis Institute of Technology Pune	jayant.jagtap@sitpune.edu.in
33	Dr. Anurag Mahajan	VLSI Signal Processing	To design area, delay and power efficient VLSI architectures for Discrete Wavelet transform, FIR filter and Residue number system multiplier and adder.	Assistant Professor	Symbiosis Institute of Technology Pune	anurag.mahajan@sitpune.edu.in
34	Dr. Satyajit Chincholkar	Power Electronics	Power Electronics	Assistant Professor	Symbiosis Institute of Technology Pune	satyajituniv16@gmail.com
35	Dr. Sayali Apte	Environmental Engineering	Environmental Engineering	Assistant Professor	Symbiosis Institute of Technology Pune	sayali.apte@sitpune.edu.in