



## SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade(3.58/4)| Awarded Category- I by UGC

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

### List of Ph.D. Supervisors Faculty of Engineering (Updated as on 28.8.2020)

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	tpsingh@sig.ac.in ( No vacancy)
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
5	Dr. Kanchan Khare	Hydraulics, Water Resources	Experiential Hydraulics, Environmental Hydraulics, Soft Computing	Professor	Symbiosis Institute of Technology Pune	kanchan.khare@sitpune.edu.in ( No vacancy)



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
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/alka_alkapandey@yahoo.co.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  ( No vacancy)
12	Dr. Dipika Jaspal	Water Treatment and Technologies	Waste water treatment, dye removal	Professor	Symbiosis Institute of Technology Pune	dipikaj@sitpune.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
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.ed u.in
14	Dr. Meena Laad	Biomedical Physics, Material Science	Material Science- Synthesis and characterization of composites, thermoluminescence, Nano lubricants & Nanocomposites	Professor	Symbiosis Institute of Technology Pune	meena@sitpune.edu.in
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.ed u.in ( No vacancy)
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@s itpune.edu.in



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17	Dr. Madhura Ingahalikar	Medical Image Processing	Medical image processing and analysis. Computational modeling 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.	Research Professor and Head SCMIA	Symbiosis Centre for Medical Image Analysis (SCMIA)	head@scmia.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 ( No vacancy)
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 ( No vacancy)
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 ( No vacancy)



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
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 ( No vacancy)
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 ( No vacancy)
24	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 ( No vacancy)
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 ( No vacancy)





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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
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 Bhamare	Magnetism in Oxides, Solid State Chemistry	Magnetostrictive materials, Thermoelectricity in Oxides, Nano Materials Synthesis, Structure Property Correlation	Assistant Professor	Symbiosis Institute of Technology Pune	shekhar.bhamare@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
29	Dr. Paresh Nasikkar	Thin Film Solar Photovoltaics (CuInGaSe <sub>2</sub> (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  ( No vacancy)



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<b>Sr. No.</b>	<b>Name</b>	<b>Specialization</b>	<b>Focus</b>	<b>Designation</b>	<b>Institute</b>	<b>Email Id</b>
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
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 ( No vacancy)
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 ( No vacancy)
34	Dr. Ram Kishun Lodhi,	Mathematics	Numerical Analysis	Assistant Professor	Symbiosis Institute of Technology Pune	ramkishun.lodhi@sitpune.edu.in



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Sr. No.	Name	Specialization	Focus	Designation	Institute	Email Id
35	Dr. Ramesh Katta,	Mathematics	Fluid Dynaics, Bio-mechanics	Assistant Professor	Symbiosis Institute of Technology Pune	ramesh.katta@sitpune.edu. in
36	Dr. Mandar Mukund Shirolkar,	Physics/Material Science	Experimental condensed matter physics, Nanomaterials synthesis, Nanogenerators	Assistant Professor	Symbiosis Centre for Nanoscience and Nanotechnology	mandar.shirolkar@scnn.ed u.in
37	Dr. Sayali Apte	Environmental Engineering	Environmental Engineering	Assistant Professor	Symbiosis Institute of Technology Pune	sayali.apte@sitpune.edu.in ( No vacancy)
38	Dr. Arunkumar O N	Operation Management	Operation Management	Assistant Professor	Symbiosis Institute of Operation Management, Nashik	arunkumar.on@siom.in ( No vacancy)
39	Dr. Sachit T S	Mechanical Engineering	Metal matrix nano composites additive manufacturing, smart manufacturing, industry 4.0	Assistant Professor	Symbiosis Institute of Technology Pune	sachit.thimmappa@sitpune.ed u.in
40	Dr. Vidya Sandeep Patkar	Data Mining, Machine Learning, Geospatial Technology, Agro informatics, Multicriteria making	Data Mining, Machine Learning, Geospatial Technology, Agro informatics, Multicriteria making	Assistant Professor	Symbiosis Institute of Geoinformatics Pune	drvidyapatkar@gmail.com
41	Dr. Dharmaveer Singh	Water resource management and climate Modelling	Water Resource Management , Isotope Hydrology, Climate Change Modelling, Water Security & Economics	Assistant Professor	Symbiosis Institute of Geoinformatics Pune	dharamaveer@sig.ac.in
42	Dr. Sandipan Das	Geoinformatics	Water Resource Management , GIS, Remote Sensing, Urban Environment, Vegetation Studies	Assistant Professor	Symbiosis Institute of Geoinformatics Pune	sandipan@sig.ac.in
43	Dr. Amol M Dalavi	Mechanical Engineering	Machine Design, advanced optimization techniques, manufacturing.	Assistant Professor	Symbiosis Institute of Technology Pune	amol.dalavi@sitpune.edu.in
44	Dr. Abhay Pal Singh	Control System & Engineering	Control Systems, Robotics , Mathematical Modeling, Fractional Calculus, Fractional Electrical Circuits	Assistant Professor	Symbiosis Institute of Technology Pune	abhaya.singh@sitpune.edu.in



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45	Dr. Shilpa Gite	Machine Learning, Computer Vision	Machine Learning, Deep Learning, Computer Vision	Assistant Professor	Symbiosis Institute of Technology Pune	shilpa.gite@sitpune.edu.in
46	Dr. Sayali Sandbhor	Civil Engineering	Civil Engineering, Construction Management, Concrete Technology	Assistant Professor	Symbiosis Institute of Technology Pune	sayali.sandbhor@sitpune.edu.in
47	Dr. Mrinal Bachute	Signal Processing ,Image Processing Machine learning	Signal Processing ,Image Processing Machine learning	Associate Professor	Symbiosis Institute of Technology Pune	mrinal.bachute@sitpune.edu.i
48	Dr. Anupkumar M Bongale	Wireless sensor Network, Internet of Things, Soft Computing, Deep Learning	Wireless sensor Network, Internet of Things, Soft Computing, Deep Learning	Associate Professor	Symbiosis Institute of Technology Pune	anupkumar.bongale@sitpune.edu.in
49	Dr. Satish Kumar	Mechanical/ Manufacturing	Additive Manufacturing Cry treated Tool, Machining Tribology, Composite Materials , Nano-Composite , 3D Printing, Industry 4.0.	Assistant Professor	Symbiosis Institute of Technology Pune	satish.kumar@sitpune.edu.in
50	Dr. Bharat Raj Jaiswal	Mathematics/ Fluid Mechanics	Fluid Mechanics, Cosmology	Assistant Professor	Symbiosis Institute of Technology Pune	bharat.jaiswal@sitpune.edu.in
51	Dr. Binay Kumar Pattnaik	Environmental Geochemistry, Environmental Engineering	Environment Geochemistry, Environmental Application of Remote sensing and GIS , Hydrogeochemistry, Rainwater Chemistry	Assistant Professor	Symbiosis Institute of Geoinformatics Pune	binayapattnaiko8@gmail.com
52	Dr. Shruti Ghanshyam Patil	Computer Science	Computer Science	Assistant Professor	Symbiosis Institute of Technology Pune	shruti.patil@sitpune.edu.in
53	Dr. Sharnil Nitin Pandya	Internet of Things and Machines/ Deep Learning	Computer Science	Associate Professor	Symbiosis Institute of Technology Pune	sharnil.pandya@sitpune.edu.in,
54	Dr. Sanjay Kantrao Kulkarni	Structural Engineering	Civil Engineering	Associate Professor	Symbiosis Institute of Technology, Pune	sanjay.kulkarni@sitpune.edu.in