

## **Walchand Institute of Technology, Solapur**

### **Ph.D completed at W.I.T. Research centre , Solapur University**

<b>Sr. no</b>	<b>Name of Ph. D Scholar</b>	<b>Research Title</b>	<b>Name of Guide</b>	<b>Year of Ph.D Completion</b>
1	Mr. Patnaik P S R	A theoretical Foundation for probabilistic ontology driven stochastic grammars for syntactic-semantic pattern recognition	Dr. S.R. Gengaje	2021 (Final Thesis Submitted)
2	Mr. Katdare R.C.	Use of Paddy for Erosion Control	Dr. S.A. Halkude	2021
3	Mrs. Nirgude M.A.	Iris recognition system based on novel feature Extraction and Classification Methods	Dr. S.R. Gengaje	2021
4	Mr. Dhale Susheel R.	Experimental study of wire behavior with respect to material Removal Rate and surface Finish of wire electrical Discharge Machining	Dr. Deshmukh B B	2021
5	Mr. Deshmukh Ranjitsign A.	Energy conservation & emission reduction strategies for melting Process for foundry in Solapur	Dr. R.B. Hiremath	2021
6	Mr. Lokhande Dheeraj Bhimrao	A Novel Approach for Transaction Management in Heterogeneous Distribution Real-Time Replicated database systems	Dr. S.R. Gengaje	2020
7	Mr. Bansode S.S.	Developing Boimimetic Design principles for Textile products	Dr. R.B. Hiremath	2020
8	Mr. Mane Sachin Jalindar	Prediction of Respirable Suspended Particulate Matter (RSPM), SO <sub>2</sub> Nox In Pune city Using Artificial Neural Network	Dr. N.P. Sonje	2019
9	Mr. Katikar N.S.	Design of an integrated knowledge management Model for Rural Industries in Solapur District, India	Dr. R.B. Hiremath	2019
10	Mr. Sonwane Sachin A.	Optimization of wire cut Electrical Discharge machining with respect to cut characteristics	Dr. Kulkarni M.L.	2019
11	Mr. Kolgiri Somnath G.	Design & Development of an Integrated model for assessing Ergonomic Factors for the powerloom sector of solapur city	Dr. R.B. Hiremath	2019
12	Mr. Deshmukh G.K.	Wastewater Minimization in Sugar Industry Incorporation Green Technology	Dr. N.P. Sonje	2018
13	Mr. Argiddi R.V.	An optimization approach for generation financial forecasting using data mining techniques with focus on association rule mining	Dr. Mrs. S.S. Apte	2018
14	Mrs. Alandkar L.S.	A novel approach for object detection in video	Dr. S.R. Gengaje	2018
15	Mr. Kanase Ajit Bajirao	A novel Optimization Approach for Network Reconfiguration of Electrical Distribution system	Dr. S.R. Gengaje	2018
16	Mr. Salunke P.V.	Ergonomic Design Consideration for school desk From Anthropometric Perspective	Dr. S.P. Kallurkar	2018
17	Mr. Kalyanshetti M.G.	Seismic Response of Building Frames Considering Soil Structure Interaction	Dr. S.A. Halkude	2017
18	Mrs. Yalagi P.S.	Analysis of sequential Java code For automatic parallelization in distributed networks for high performance computing A runtime approach	Dr. Mrs. S.S. Apte	2017
19	Mr. Dube Mahesh R.	Reconcilable Ramified System Analysis and Design Modeling Framework with Evolution Traceability	Dr. S.K. Dixit	2017

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20	Mrs. Ravale Priya P.	Design Microarchitecture of a Microprocessor Based on Superscalar Architecture Using FPGA	Dr. Mrs. S.S. Apte	2017
21	Mrs. Thalange A.V.	Vision Based Recognition of Alphabets in American Sign Language Using Hybrid Methodology of Feature Extraction Techniques	Dr. S.K. Dixit	2017
22	Mrs. Bahirgonde Prabhavari D.	High Throughput Optimization Turbo Decoder Architecture	Dr. S.K. Dixit	2017
23	Mrs. Shelke R. J.	Analysis of Factors Affecting Performance Leading to a Novel Approach for Digital Image Water Marking	Dr. Mrs. S.S. Apte	2017
24	Mrs. Jabade Vaishali S.	Wavelet Transform And Fuzzy Inference System Based Robust And Imperceptible Non-Blind Image Water Marking	Dr. S.R. Gengaje	2017
25	Mr. Tuljapure S.B.	Design of Bumpers of Light Commercial Vehicles for Effective Energy Absorption During The Frontal Impact	Dr. S.S. Sarwade	2017
26	Mrs. Pujar A.M. (A R Kulkarni)	An Efficient Domain-Specific Text Summarization Technique Using Knowledge –Base and Combined Statistical & Linguistic Methods	Dr. Mrs. S.S. Apte	2016
27	Mrs. Ubale Swapnaja.A.	Implementation and Analysis of ACL Based Security Models For Windows Operating System	Dr. Mrs. S.S. Apte	2016
28	Mrs. Mergu R.R.	2D Transform & Hybrid Filtering Approach for Noisy Speech Enhancement and Comparison by Objective & Subjective Measures	Dr. S.K. Dixit	2016
29	Mr. Vyavahare Ravidra T.	Ergonomic Considerations In The Design of Farm Equipments Being Used In Maharashtra	Dr. S.P. Kallurkar	2016
30	Mr. Pise C.P.	Turbidity Removal Using Blended Coagulant Moringa Oleifera And Alum	Dr. S.A.Halkude	2015
31	Mr. Dube R.R.	Behavior Specification Synthesis of Embedded Real-Time Systems with Timing Analysis and Transformation	Dr. S.K. Dixit	2015
32	Mr. Kulkarni P.R.	Towards Improving Productivity of Solapur Based Textile SMEs	Dr. S.P. Kallurkar	2015
33	Mr. Chougule M.B.	Recycling of Wastewater in Textile Wet Processing	Dr. N.P. Sonje	2014
34	Mr. Dhore Manikrao L.	“ Real Time Cross Language Weaver For Commercial Web Based Applications Using Memory Translation And Transliteration	Dr. S.K. Dixit	2013
35	Mr. Kulkarni R.B.	Empirical analysis and restructuring of Web application	Dr. S.K. Dixit	2012

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## Ph.D Pursing at W.I.T. Research centre, Solapur University

Sr. no	Name of Ph.D Scholar	Research Title	Name of Guide	Year of Registration
1	Mr.Muzzammil Wahab Shaikh	Use of IoT for Ensuring Quality of Shielded Metal Arc Welding During Onsite Fabrication.	Dr.S.B.Tuljapure	2021 Awaiting for Ph.D.admission letter
2	Mr.S.S.Rathod	Analysis and Improvement in Design of an Orthodontic Hybrid Fixed Functional Appliance	Dr.B.B.Deshmukh	2021 Awaiting for Ph.D.admission letter
3	Mr.P.G.Chitte	Investigation, analysis and improvement in Design of an Orthodontic Indra Zygomatic Crest Implant for better retention	Dr.B.B.Deshmukh	2021 Awaiting for Ph.D.admission letter
4	Mr.Navnath Krishnath Mane	Developing a framework for predicting diabetes using machine learning models and performing empirical analysis for improving the accuracy of the models	Dr.L.M.R.J.Lobo	2021 Awaiting for Ph.D.admission letter
5	Ms.Patil Aishwarya R	Prediction of Reservoir Sedimentation and future life of Dam Reservoir by using Remote Sensing Artificial Intelligence and Machine learning Techniques.	Dr.S.S.Kahid	2021 Awaiting for Ph.D.admission letter
6	Mr.Chavan V.D.	Enhancing the performance of Big Data Intrusion Detection System using machine learning for Suspicious Activity	Dr.Pratibha Yalagi	2021 Awaiting for Ph.D.admission letter
7	Mr.Kulkarni Milind M	Health Care Decision Making using machine learning & Deep learning	Dr.Mrs.A.M.Pujar	2021 Awaiting for Ph.D.admission letter
8	Mr.S.S.Deshmukh	Real Time Vibration and Condition Monitoring Using Wireless Vibration Energy Extraction System	Dr.S.B.Tuljapure	2021 Awaiting for Ph.D.admission letter
9	Mr.S.S.Hiremath	Effect of Sodium Polyacrylate on heat shielding and emission of Effect of Sodium Polyacrylate on heat shielding and emission of gases from muffler of a two wheeler vehicle	Dr.S.B.Tuljapure	2021 Awaiting for Ph.D.admission letter
10	Mr.N.A.Karmuse	Analysis of Soil structure interaction using artificial neural network	Dr.M.G.Kalyanshet ti	2021 Awaiting for Ph.D.admission letter

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## Ph.D Pursing at W.I.T. Research centre, Solapur University

Sr. no	Name of Ph.D Scholar	Research Title	Name of Guide	Year of Registration
11	Ms.Anuradha Vijay Jadhav	Study of structural behavior of reinforced concrete bubble deck beam.	Dr.M.G.Kalyanshet ti	2021 Awaiting for Ph.D.admission letter
12	Mr.Ameerhusain Suhelahmed Jamdar	Seismic Response of Mid-Rise Building Frames Under influence of Soil-Structure interation.	Dr.M.G.Kalyanshet ti	2021 Awaiting for Ph.D.admission letter
13	Ms. Awasekar D D	Artificial Intelligence for Legal Assistance:A Model for prescriptive Analytics in the context of assisting victims of domestic violence in case investment decision making	Dr. L M R J Lobo	2021 Awaiting for Ph.D.admission letter
14	Mr. Patnaik P D R	Development of Event Based Hardware- in the-Loop (HiL) Framework for Internet of Things (IoT) Applications	Dr. S R Gengaje	2021 Awaiting for Ph.D.admission letter
15	Mr. Jawalkar Ganesh C.	Finite element analysis and experimental evaluation of cold form racking system	Dr. Pise C P	2021 Awaiting for Ph.D.admission letter
16	Mrs. Ghadge Swati Gopalrao	Performance improvement of RC Deep Beam of Maximising Permissible Web Opening size using FRP Wrapping at the Opening	Dr. S.S.Patil	2020
17	Mr. Javheri Sandeep Bansilal	Shear Strength performance improvement of Hybrid fiber Reinforced Concrete (HFRC) Deep Beams using optimized Blending of steel, Polypropylene and glass fibers	Dr. S.S.Patil	2020
18	Mr. Pawar Hemchandra Ramesh	A Novel Approach for the Improvement in the Predication of Northeast Monsoon (NEM) Rainfall over Peninsular India, and its Influence on Streamflow	Dr. S.S. Kashid	2020
19	Mr. Patil Dilip Gulabrao	Hydrological Analysis with respect to land usage, land cover and urban sprawl, for development of advanced resilient spatial planning strategies to reduce flood risks in an urban environment	Dr. S.S. Kashid	2020
20	Mrs. Baheti Kiran Alies Kanan Khushalchand	Machine learning based traffic road signs detection and recognition system for advanced driver assistance	Dr. Gengaje S R	2020
21	Shrigandhi Meenakshi Nitin (Mrs. Pasnur M A)	Novel Image processing approach for object detection and classification for safety monitoring at construction site	Dr. Gengaje S R	2020

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Sr. no	Name of Ph.D Scholar	Research Title	Name of Guide	Year of Registration
22	Mr. Khamitkar R S	Design and Performance evaluation of machine learning based approaches for hardware Trojan detection in FPGA based system on Chip	Dr. Dube R R	2020
23	Mr. Honkalas Rahul Rajan	Investigation, analysis and improvement in efficiency of worm and worm wheel of a gear motor	Dr. B B Deshmukh	2020
24	Mr. Pawar Prabhakar Vitthal	Design Analysis and Optimization of a two stage planetary gearbox for high reduction ratio	Dr. B B Deshmukh	2020
25	Mr. Agalave Ganesh Bibhishan	Performance evaluation of solar thermal energy storage hybrid system using phase change material and vapour compression system with alternative refrigerant for high temperature application	Dr. Kulkarni P R	2020
26	Mr. Tambake Nagesh Rajshekhar	Data Driven Condition monitoring of a CNC Hobbing Cutter : A Machine learning approach	Dr. B B Deshmukh	2020
27	Mr. Paryani S R	The industrial internet of things enabled supply chain in packing industry.	Dr. Kulkarni P R	2020
28	Mr. Dhanshetti P V	Topology Optimization of Diagrid Steel Structure for Enhancing Seismic Resistance	Dr. S.S. Patil	2020
29	Mr. Jagale S.D.	River basin-Scale stream flow and Reservoir Storage Forecasting based on Large-scale Coupled Atmospheric-Oceanic Circulation Patterns and Local Meteorological Inputs	Dr. S.S. Kashid	2016
30	Mr. Chawadekar A.U.	Prediction of Droughts in North West India and West Central India Regions using Climate Inputs and Genetic Programming- Copula Approach	Dr. S.S. Kashid	2013
31	Mrs. Motegaonkar S.S.	Effects of Climate Change on Spatio-Temporal Distribution of Indian Summer Monsoon Rainfall on Homogeneous monsoon regions of India	Dr. S.S. Kashid	2013
32	Mr. Lonawat S.S.	Prediction of Monthly India Summer Monsoon Rainfall over Meteorological Subdivision of India for its application in water resource management	Dr. S.S. Kashid	2013

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Sr. no	Name of Ph.D Scholar	Research Title	Name of Guide	Year of Registration
33	Mr. Kalshetty S.C.	Adaptive Fuzzy Sliding Mode Controller for Robot Manipulator	Dr. S.K. Dixit	2013
34	Mr. Sagat Chandrakant D.	A thermal Analysis of coolant in boring trepanning association machining	Dr. Jatkar K.H.	2013
35	Mr. Bingi V.A.	A prototype for region based image retrieval system using visual descriptors	Dr. S.R. Gengaje	2012
36	Mr.Pottigar Vinayak V.	A gird-enabled CPU intensive task allocation and scheduling in Grid Computing	Dr. Thool R.C.	2012
37	Mr. Mitragotri P.P.	Improving process Performance of Foundry from Environment Predictive	Dr. S.P. Kallurkar	2012
38	Mr. Naik S.B.	Optimal plant layout design for process industry	Dr. S.P. Kallurkar	2012
39	Mr. Aradhya Atul S.	Application of Institute Engineering to Reduce waiting period of pigrim	Dr. S.P. Kallurkar	2012
40	Mr. Kulkarni S.K.	Shear Strength of Fiber Reinforced Concrete Deep Beams	Dr. S.A. Halkude	2011 (Spiral Bound Submitted)
41	Mr. Gosavi S.B.	Assessment of Conveyance Losses Using Image Processing Techniques.	Dr. S.A. Halkude	2011
42	Mr. Rajguru Abhijit A.	Performance improvement of distributed system through Load Balancing & Task scheduling using Fuzzy Logic	Dr. Mrs. S.S. Apte	2011
43	Mr. Jagtap Shrikant T.	Application of QFD and six SIGMA for robust product design of automobile components	Dr. S.P. Kallurkar	2011
44	Mr. Pawar M.M.	Development of Methodology for converting existing water Supply Scheme in to A 24 X 7 water Supply Scheme	Dr. N.P. Sonje	2010 (Spiral Bound Submitted)
45	Mr. Pawar Y.P.	Evaluation of Performance of hybrid fiber reinforced high volume fly ash based self compacting concrete	Dr. S.A. Halkude	2010
46	Mrs.Kulkarni Vidya R.	Performance analysis of cryptographic Applications using ANN with focus on Hash Function	Dr. Mrs. S.S. Apte	2008