




SINHGAD TECHNICAL EDUCATION SOCIETY'S  
**SINHGAD INSTITUTE OF TECHNOLOGY**

(Affiliated to SPPU Pune and Approved by, AICTE, New Delhi.)  
Gat No. 309/310 , Kusgaon (Bk), off Mumbai -Pune, Expressway.  
Lonavala, Pune, 410401, Website : sit.sinhgad.edu

# SINHGAD INSTITUTE OF TECHNOLOGY, LONAVALA

## ANNUAL REPORT:2017-2018

**ATTESTED**

  
Dr. M. S. GAIKWAD  
PRINCIPAL  
Sinhgad Institute of Technology, Lonavala

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College Details							
1.	<b>Name Of the Department/College/Institute</b>	:	Sinhgad Technical Education Society Sinhgad Institute of Technology Addr: Survey No 309/310 Kusgaon Bk Lonavala Ta: Mawal Dist: Pune	2.	<b>Address Of the Department/College/Institute</b>	:	Survey No 309/310 Kusgaon Bk Lonavala Ta: Mawal Dist: Pune Pincode: 410401
3.	<b>Name Of the Head/Principal/Director</b>	:	GAIKWAD MANIK SAKHARAM	4.	<b>Tele (O/R) With STD Code/Mobile No., Fax No, Email Address and Website Address</b>	:	<b>Tele.-</b> 02114-673356 <b>Email-</b> principal_sit@sinhgad.edu <b>URL-</b> sit.sinhgad.edu
5.	<b>Reference Books/Monographs Published by Teacher (2017-2018) :</b>						
Sr. No.	Name of the Teacher(s)/Author	Title of the Reference Books/Monographs	Name and Place of Publisher(s)	Date of Publication	Isbn/Issn No.		
1	Mantri Dnyaneshwar Shriranglal	Microcontrollers	Technical	2017	978-93-332-1575-6 /		
2	Mantri Dnyaneshwar shriranglal	Microcontroller-Decode	Technical	2017	978-93-332-1708-8 /		
3	Babar Sachin Dilip	Software Engineering & Project Management	Tech-Max	2017	978-93-5224-578-9 /		
4	R. Shenbagalakshmi Rengamani	Discrete Controlled Pulse width Modulated Interleaved Boost converter using Bilinear Transformation	Atlantis Press	2017	-- / 2352-5401		
6.	<b>No.of Conference, Symposia, Seminars,Workshops etc. Organized (2017-2018)</b>						
Sr. No.	No. of State Level	No. of National Level		No. of International Level			
1	17	0		0			
7.	<b>Research Publications in National and International Journals/Edited Books/Proceedings (2017-2018)</b>						
Sr. No.	Name of the Teacher's/Author	Title of the Paper	Name of the Journal/Proceeding/Edited Book	Volume & Pages	Year of Publication	ISBN/ISSN No.	
1	Kulkarni Ninad Kamalakar	A REVIEW OF PIPE INSPECTING ROBOT AND ITS APPLICATIONS	International Journal of Recent Innovation in Engineering and Research	02 & 5	2017	Maharashtra / 2456 – 2084	

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2	Salotagi Mahesh Mahadev	Lumped Heat Capacity System Design for Revampment in Tube Furnace for Continuous-Inline Wire Annealing	International Journal of Scientific Research in Knowledge	5 & 7	2017	NA / 2322-4541
3	Salotagi Mahesh Mahadev	Technological Developments in Annealing Furnaces for Performance Improvement	IJARIE	3 & 12	2017	9 772395439864 / 2395-4396
4	Shitole Neelima Bhausaheb	Execution of FPGA For Home Robotization Utilizing VHDL	IJSR	6 & 1988	2017	2319-7064 / 2319-7064
5	Bhad Sharad Arun	ENHANCEMENT OF ENERGY EFFICIENT ROUTING PROTOCOL BY MINIMIZING ENERGY CONSUMPTION IN WIRELESS SENSOR NETWORKS.	International Journal of Advanced Research (IJAR)	5 & 4	2017	2320-5407 / 2320-5407
6	Mantri Dnyaneshwar Shriranglal	Random Mobility and Heterogeneity-Aware Hybrid Synchronization for Wireless Sensor Network	Wireless Personal Communications	89 & 18	2018	1572-834X / 0929-6212
7	Duche Dipashree Navanath	Study of Environmental Parameters by Implementing an IOT node using ARM cortex m3	IJRT	5 & 5	2017	- / 2320-2882
8	Duche Dipashree Navanath	"Information Security Through QR Authenticationin	IJIRCE	6 & 5	2018	- / 2320-9798
9	Gaikwad Rajendra Dattatraya	IDENTIFICATION OF FAULTS IN SELF-ALINED DOUBLE ROW BALL BEARING	International Journal of Scientific & Engineering Research(IJSER)	8 & 6	2017	- / 2229-5518
10	Dike Prashant Rajaram	ENERGY EFFICIENT WIRELESS SENSOR NETWORK MULTIRATE SIGNAL PROCESSING FOR CHANNEL CAPACITY AND DELAY IMPROVEMENT	INTERNATIONAL JOURNAL OF CURRENT ENGINEERING AND SCIENTIFIC RESEARCH (IJCESR)	4 & 40	2017	ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, / ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, <b>ATTESTED</b>

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11	Gharde Pankaj Ramkrushna	Review on Advance Augmentation and Future Opportunity of Magnetic Refrigeration Systems	IJSER	8 & 36	2017	5518 / 2229
12	Gharde Pankaj Ramkrushna	Fabrication and Experimental Performance Investigation of Economical Multi-objective Agriculture Equipment	IJSER	8 & 266	2017	5518 / 2229
13	Shinde Shilpa Vikas	Development of Electronic tattoo for pulse rate monitoring: Materials perspective, International Conference on Inventive Research in Material Science and Technology	AIP Conference Procceeding	1966 & 7	2018	978-0-7354-1671-0 / -
14	Gholap Sharad Balasaheb	Simulink Based Spectrum Sensing in Cognitive Radio Using Cyclostationry Detection	Asian Journal of Convergence in Technology	III & 6	2017	-- / 2350-1146
15	Shende Dipali Kedar	Implementation of Wireless Sensor Network With the use of MQTT Protocol for Smart Gas Metering	IJEECS CDAC Mumbai	6 & 130	2017	23220 / 2320
16	Shende Dipali Kedar	Study of Environmental parameters BY implementing an IOT node using ARM CORTEX M3	IJCRT	5 & 5	2017	2320-2882 / 2320-2882
17	Shende Dipali Kedar	IoT Based Geographic Multicast Routing Protocol with DPA through WSN with ISSN: .	International Journal of Creative Research Thoughts (IJCRT)	6 & 230	2018	2320-2882 / 2320-2882
18	Lokhande Prasad Eknath	Nanoflower-like Ni(OH) <sub>2</sub> synthesis with chemical bath deposition method for high performance electrochemical applications	Materials Letters	218 & 3	2018	0167-577X / 0167-577X
19	Ugare Vivek Malgonda	Verification of Multi Evaporator VCR System with Micro channel Condenser	International Journal of Scientific & Engineering Research,	Volume 8 & 5	2017	- / ISSN 2229-5518

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20	Ugare Vivek Malgonda	Performance Analysis of Vapour Compression Refrigeration System with Spiral Micro-tube Condenser	International Journal of Scientific & Engineering Research,	Volume 8 & 5	2017	- / ISSN 2229-5518
21	Waykar Sanjay Bajaba	servey on an effective database tampering system with veriable computation and incremental updates	IRJET	4 & 4	2017	2395-0072 / 2395-0056
22	Bhardwaj Sanika Sagar	Traffic Signal Management using Barrier	International Engineering Research Journal (IERJ)	6 & 5	2017	2395-1621 / 2395-1621
23	Bhardwaj Sanika Sagar	Smart Solar Grass cutter with Lawn Coverage	Imperial Journal of Interdisciplinary research	3 & 3	2017	2454-1362 / 2454-1362
24	Bhardwaj Sanika Sagar	Hybrid Solar System for real Time Power Management	International Journal of Engineering Science Invention Research & Development (IJESIRD)	3 & 5	2017	2349-6185 / 2349-6185
25	Baste Vaishali Sandeep	STUDY OF ENVIRONMENTAL PARAMETERS BY IMPLEMENTING AN IOT NODE USING ARM CORTEX M3	IJCRT	5 & 5	2017	- / 2320-2882
26	Patil Deepak Balaso	Reconfigurable Architecture of Adaptive Median Filter	ICICT2017	5	2017	978-1-5090-1285 /
27	Shitole Neelima Bhausaheb	A study of cancer diagnosis using image processing and machine learning.	A study of cancer diagnosis using image processing and machine learning.	3	2017	na /
28	Lakal Narendra Vyankatrao	Identification of Dimensions of Engineering Education Service Quality from Student Perspective	2017 Annual Meeting of the Decision Sciences Institute Proceedings	10	2017	978-0-578-17748-9 / 2471-884x
29	Dike Prashant Rajaram	ENERGY EFFICIENT MULTIRATE SIGNAL PROCESSING FOR WSN FOR CHANNEL CAPACITY AND DELAY IMPROVEMENT	IEEE book of abstract international conference on ICICT 2016	170	2017	978-1-5090-1283-1 5 PP [170-171], /

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*M.S.*  
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30	Shinde Suhas Deelip	Simultaneous Power Management using multiport DC-DC converter	Proceedings of the 2nd International Conference on Inventive Computation Technologies ( ICICT 2017)	5	2017	978-1-5090-6697-1 /
31	Mhetre Santosh Laxman	Simultaneous Power Management using Multiport Dc-Dc Converter	Proceedings of the 2nd International Conference on Inventive Computation Technologies ( ICICT 2017)	5	2017	ISBN:978-1-5090-6697-1 /
32	Shinde Shilpa Vikas	Wireless heart rate sensor design to conform IEEE 802.15.6: Results and challenges	International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2018)	4	2018	- / ISSN-2348-117X
33	Shinde Shilpa Vikas	Wireless heart rate sensor design to conform IEEE 802.15.6: Results and challenges	International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2018)	4	2018	- / ISSN-2348-117X
34	Latane Pravin Chandrakant	Implementation of Low Power Nine axis sensor for AHRS using Direction Cosine Matrix Algorithm	International Conference on Digital Signal and Image Processing	5	2017	- / -
35	Gholap Sharad Balasaheb	Cognitive Radio Test Bed for Spectrum Sensing Application in Wireless Communication Using Simulink	National Conference on Electronics, Communication, and Computing (NCECC-2017)	7	2017	-- / --
36	Shende Dipali Kedar	Multicast Routing for Internet of Things: A Literature Review and Challenges	International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2018)	600	2018	2347-8616 / 2347-8616
37	Shende Dipali Kedar	Implementation of MQTT Protocol for smart gas Metering Using Semantic Data Extraction with IOT	World Research Forum for Engineers & Researchers -International conference ICEEE	5	2017	2370 / 2340
38	Baste Vaishali Sandeep	Efficient Utilization of Channel Coding for Wireless Communication	IJECS	5	2017	- / 2348

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*(Signature)*  
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8. Research Projects/Schemes Undertaken by Teachers (2017-2018)							
Sr. No.	Name of the Investigator(s)	Faculty	Title of the Research Project/Scheme	Name of the Funding Agency	Duration of the Project/Scheme	Amount Sanctioned (Rs.)	Major/Minor
1	AGANIVESH PURUSHOTTAM OGALE	Engineering	Design and fabrication of solar based green evapor	ISHRAE	10/08/2015-20/04/2016	36000	Minor
9. Teachers Attended Conferences, Seminars, Symposia, Workshops etc. (2017-2018)							
Sr. No.	No. of Teachers Attended State Level		No. of Teachers Attended National Level		No. of Teachers Attended International Level		
1	49		0		3		
10. No. of Collaboration with International Institute/Colleges/University Department during the Year (2017-2018)							
Sr. No.	MoU	Exchange Program		Exchange of Teachers		Franchise	
1	NA	NA		NA		NA	
11. Grants Sanction for Funding Agency (2017-2018)							
Sr. No.	UGC	DST/DBT/B.Voc.	CE/CPE	S.P. Pune University		Any Other	
1	0	0	0	4		0	

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12. Faculty Wise Enrollment Of Students (2017-2018)													
Faculty	Sex	Open	Sc	ST	DT(A)	NT	NT(B)	NT(C)	NT(D)	OBC	SBC	Physically Challenged	Total
Engineering	FEMALE	63	18	0	0	0	2	1	4	26	2	0	116
	MALE	283	65	5	6	0	11	23	22	138	12	0	565
<b>TOTAL</b>		<b>346</b>	<b>83</b>	<b>5</b>	<b>6</b>	<b>0</b>	<b>13</b>	<b>24</b>	<b>26</b>	<b>164</b>	<b>14</b>	<b>0</b>	<b>681</b>

13. Statistical Information about Teacher for Academic Year ( 2017-2018 )							
Sr.No.	Category	Granted			Non Granted		
		Male	Female	Total	Male	Female	Total
1	NT(B)	1	0	1	1	0	1
2	NT(C)	0	0	0	1	0	1
3	OBC	12	3	15	5	3	8
4	OPEN	24	14	38	19	4	23
5	SBC	0	0	0	1	0	1
6	SC	4	6	10	7	2	9
7	ST	0	0	0	1	0	1
	<b>Total</b>	<b>41</b>	<b>23</b>	<b>64</b>	<b>35</b>	<b>9</b>	<b>44</b>

Date:

Place:

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Dr. M.S. Gaikwad  
 Principal,  
 Sinhgad Institute of Technology, Lonavala