

Name of the Department: Instrumentation and Control
 Details of the Sponsored Research Projects Since 2007 till Date...

Sr.No.	PI and CO-PI	Title of the project	Project Sanctioned Date	Grant Sectioned (Lakhs)	Status (Ongoing/ Completed)	Sponsoring Authority	Project Duration	Remark if any	
Year: 2007-2008									
1	Mrs. R. P. Mudhalwadkar	Development of gas sensor array to detect organic volatile compound for classification analysis in Indian Honey	7th Aug 2007	3.24 Lakhs	Completed	KVIC S & T	2 Years		
2	Mrs. R. P. Mudhalwadkar	Design, development, Characterization & fabrication of hydrogen leak sensor	28th May 2007	7.75 Lakhs	Completed	ISRO-UoP	3 Years		
3	PI:-Mr. D. N. Sonawane Co-PI: Mr. U. M. Chaskar	VLSI Implementation of MPC using DSP	1st April 2007	8.00 Lakhs	Completed	AICTE - RPS	3 Years		
4	PI:-Dr. M.Y. Khaladkar, Co-PI: Mrs. R.P.Mudhalwadkar	Preparation of ultra ZnNO ₂ O ₆ & ZnTa ₂ O ₆ with partial substitution of Zn with Mg	1 st July 2007	7.75 Lakhs	Completed	ISRO-UoP	3 Years		
Year: 2008-2009									
1	PI:- Mr. U. M. Chaskar Co-PI: Dr. S. L. Patil	Study, design and Implementation of Iris Recognition algorithms & Applications with special reference to Industrial & Clinical Predictions	12th March 2009	8.80 Lakhs	Completed	AICTE - RPS	3 Years		
2	PI:- Dr. P.D. Shendge Co-PI: Dr. S. D. Agashe	Embedded 3 D robot manipulator Controller	1st Feb 2009	9.84 Lakhs	Completed	UGC - MRP	3 Years		

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3	Mr. S. L. Patil Co-PI: Mr. U. M. Chaskar	Development of digital Current Mode Controller for DC -DC Converter using FPGA	1st Feb 2009	11.05 Lakhs	Completed	UGC - MRP	3 Years		
4	Mr. U. M. Chaskar	Development of Biometrics and Clinical Prediction system using Iris Image Analysis	March 2009	9.75 Lakhs	Completed	UGC-MRP	3 Years		
Year: 2009-2010									
1	Mr.D.N.Sonawane	Virtual Lab-FPGA Embedded System Lab	April 2010~ March 2013	48.52 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
2	Dr.S.L.Patil	Virtual Lab-Hybrid Electronics Lab	April 2010~ March 2013	51.24 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
3	Mr.U.M.Chaskar	Virtual Lab-Biomedical and signal Processing Lab	April 2010~ March 2013	49.42 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
4	Dr.S.S.Agashe	Virtual Lab-Sensor modelling and simulation Lab	April 2010~ March 2013	45.46 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
5	Dr.S.D.Agashe	Virtual Lab-Industrial Automation Lab	April 2010~ March 2013	60.04 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
6	Dr.S.D.Agashe	Virtual Lab-Programmable Logic Controller Lab	April 2010~ March 2013	84.42 Lakhs	Completed	Sponsored by MHRD under ICT project scheme	3 Years		
Year: 2010-11									
1	PI:-Mr. U. M. Chaskar, Co-PI: Dr. S. L. Patil	Development of Iris Recognition – An Biometric Application	1st April 2011	20.78 Lakhs	Completed	BRNS	3 Years		
2	PI:-Dr. P. D. Shendge, Co-PI: Prof. S. B. Phadke	Observer Controller Design for uncertain system in application with snake robot	1st April 2011	21.28 Lakhs	Completed	BRNS	3 Years		

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3	PI:- Dr. C.Y.Patil, Co-PI: Mr. U.M.Chaskar	Design and Development of Wireless Sensor Network for Green Agriculture	12 Jan 2011	8.42 Lakhs	Completed	UGC MRP	3 Years		
Year: 2011-12									
1	PI:- D. N. Sonawane, Co-PI: Ms K. A. Bhole	Subcutaneous vein detection system for drug delivery assistance	July 2011	7,78 Lakhs	Completed	UGC MRP	3 Years		
2	D.N.Sonawane	Remote-triggered Virtual Lab-Sensor Analysis and Data Acquisition Lab	June 2011	52. 20 Lakhs	Completed	MHRD under ICT project scheme	2 Years		
3	S.D.Agashe	Remote-triggered Virtual Lab-Advanced process control laboratory	June 2011	55.70 Lakhs	Completed	MHRD under ICT project scheme	2 Years		
4	S.D.Agashe	Remote-triggered Virtual Lab- Industrial Automation laboratory	June 2011	52.30 Lakhs	Completed	MHRD under ICT project scheme	2 Years		
5	Dr.S.L.Patil	DC-DC converter power management for lower- power embedded system	Nov.2011	24.37 Lakhs	Completed	BRNS	3 Years		
6	Dr.S.L.Patil	Modernization of Biomedical Instrumentation	Nov. 2011	12.00 Lakh	Completed	AICTE MODROB	1 Year		
Year: 2012-2013									
1	Dr.R.P. Mudhalwadkar	Development of electronic olfaction system for disease detection	May 2012	7.39 Lakhs	Completed	UGC MRP	2 Years		
2	Dr. R. P. Mudhalwadkar	Development of electronic nose for homeland security	12 March 2013	19.54 Lakhs	Completed	BRNS	2 Years		
3	PI:- Mrs. A. S. Deshpande, Co-PI: Dr. U.M. Chaskar	Design and development of control strategies for solar panel automatic tracking system	March 2013	8.69 Lakhs	Completed	UGC MRP	3 Years		
4	Dr.R.P. Mudhalwadkar	Development of artificial sensor system for food quality detection	23 Jan 2013	8.20 Lakhs	Completed	AICTE	3 Years		

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5	Dr. U. M. Chaskar	Design and development of a system for measurement of blood glucose and haemoglobin noninvasively	April 2013	12.05 Lakhs	Completed	AICTE	3 Years		
Year: 2015-16									
1	PI: Dr. S D Agashe Dr. D. N. Sonawane Dr. Kalyani Bhole	Design and Development of Signal Processing Unit for Proximity Sensor of a Guided Missile	01-06-2015	8.90 Lakhs	Completed	ARDE, Pashan	03 Years		
2	PI: Dr. R.P. Mudhalwadkar Co-PI: Dr. Manisha Khaladkar	Fabrication of a small satellite for monitoring radiations in different orbits of outer atmosphere where orbit manoeuvring will be controlled by solar cells.	30-05-2016	20.60 Lakhs	Completed	ISRO-UOP	3 Years		
Year: 2016-17									
1	PI: Dr U. M. Chaskar Co-PI: Dr S L Patil	Portable Intensive care Set up for Rural Health Infrastructure	01-06-2017	76. 12 Lakhs	Completed	Rajiv Gandhi Science & technology Commission Government of Maharashtra	3 Years		
2	PI:-Dr. P. D. Shendge Co-PI: Prof. S. B. Phadke	Development of ABS, AS and ASS test Rigs for real time implementation of active disturbance rejection based robust control	01-02-2017	78.30 Lakhs	Ongoing	DST	3 Years		

