

G.H.Raisoni Institute of Engineering and Technology

for Women, Nagpur



Streamsains



Research and Development Cell



ANNUAL REPORT 2011-2012

Inspiration



Hon'ble Late Shri.Gyanchandji Raisoni

Knowledge is the product of an educational institution .Excellence in teaching and emphasis on values including dignity of labor enrich this product. A skilled person with such a potential shall not only be an expert, but will also be a good citizen. Let the endeavor of this institution be to bring out such a product!

Why R & D?

Our Resources must Lead us to a STRONGER INDIA with cleaner and better living





Foreword.....



Technical Education Institutes are presently suffering from lack of innovations. Many of these Institutes do not have research activities. I have a firm belief that a teacher cannot teach recent developments in the field of his specialization, if he is not exposed to the latest developments. Therefore, an educational institution must have a strong research base.

The prime objective of the faculty is to teach. Teaching and Research are two sides of the same coin. Hence the faculty should increasingly involve itself in research. Potential-Research-Activities that will be useful to the society will have to be undertaken collaboratively. We, therefore have established research promotion programme through the support of eminent personalities from outstanding research organizations, to enhance research culture and attitude. Research has to be an inseparable part of teacher` activities for effective teaching.

I am happy to mention that, recently, we have established Research and development Cell in our institute, involving ourselves actively in modern aspects of concerned ones. Research work and Publications by the teachers have been given due weightage while judging their overall performance. To build research infrastructure, sufficient financial support is provided. The research facilities and expertise will be made accessible to industry and commerce, so that better collaboration with them is achieved.

Sunil Raisoni

Chairman, Raisoni Group of Institutions

Messages.....



I believe it is critically important that we give greater priority to new and better research and development (R&D) investments, to help ensure our country's future competitiveness and to pave the wave for clean energy innovation. R&D is one category of spending that develops and drives these new technologies.

-Dr.V.K.Chandrakar

Principal

For survival in highly competitive technical education, an upper hand in the research and development can be the only saving grace. An engineer with only bookish knowledge is of no value. He or she must be able to provide engineering solution to many of the existing problems though research and development.

> - Dr.S P Hingway Dean, R & D Cell

Introduction

Research & Development Cell at G.H.Raisoni Institute of Engineering and Technology for Women, Nagpur gives strong support to research and consulting activities. This cell was established in 2011-2012 with adequate financial support and necessary infrastructure provided by the management.

Research provides an important bridge linking industry and academia. Applied research is concerned with the creation of faith and opportunities for stronger tie-up with industries for better products/ production-processes.

Strong Industry-Institute partnership is fundamental in meeting goals in economic competitiveness. The R & D Cell of the college is spending large share of money to promote technologicalinnovations through our creative teachers and students. Basic aim of R & D cell is to propagate the philosophy and methods of inquisitiveness in the minds of the teachers and students.

Of late, it has become a priority to enhance research in the field of electronics and Telecommunication, Computer Sciences and other disciplines of Engineering and technology, for the benefit of Industry and researchers.

The objectives of the R & D cell are enlisted below :

- To develop excellence in teaching under graduate and post graduate students and pursue research.
- To create intellectual property.
- To promote industry based research in Engineering disciplines for the benefit of industry, with in-house as well as adjunct scholars.
- To develop infrastructural facilities and research culture among the teachers and researchers.

The activities of this cell will be guided and supervised by Advisory board formed as given below:

Research Advisory Board

A) Authorities from the College

- 1. Chairperson Principal
- 2. Dean Research and Development
- 3. Heads of Department

Dr. V.K Chandrakar Dr. S.P Hingway Dr.U.M.Gokhale(HOD,ETC/ETRX) Prof. M.J Katira (HOD,Electrical) Prof. P.S Mohod (HOD,CSE/IT) Mrs.M.H.Aware (First year Co-ordinator)

B) Expert from other Organization

1. Dr. D.P. Kothari	Ex. Director General, RGI
2. Dr K. K. Dhote	Executive Director, RGI
3. Dr. K.M Bhurchandi	Prof in Electronics Engg. VNIT, Nagpur
4. Dr. R.M Moharil	Prof & Head , Electrical Engg., YCCE, Nagpur
5. Dr. J.B Helonde	Principal, ITM, Nagpur
6. Dr Anjali Mahajan	Prof & Head, Computer Science and Engg. , PIET,
	Nagpur
7. Dr S V Moharil	Prof & Head , P G Dept. of Physics, RTMNU, Nagpur
8. Dr B N Berad	Prof in Organic Chemistry , RTMNU, Nagpur

Research & Development Policies



The Research & Development of G H Raisoni Institute of Engineering & Technology for Women, Nagpur aims to nurture research culture in the institute by promoting research in newly emerging and challenging areas of science and engineering. It encourages the Undergraduate, Post graduate and Doctoral degree candidates to undertake research in newly emerging frontier areas of science and engineering including multidisciplinary fields. This will enhance the general research capability of budding technocrats by way of participating in conferences, seminars, workshops, project competition, etc.

- 4 To encourage faculty to bring funded projects to Institute
- **4** To promote faculty to undertake research activities
- **4** To ensure students participation in research activities
- For overall development of a teacher in the area of pedagogy research & development
- **4** To improve quality of research & publication
- **4** Academic flexibility
- **4** To promote faculty to undertake research and file patents.
- **4** To bridge the gap in between the existing curriculum & industry needs
- **4** To expose the students with emerging areas of latest technology
- 4 Enhancement of R & D Culture

Index

- Research Facilities in Department
- Activities of R & D Cell
 - Workshops Organized
 - Guest Lecture by eminent speakers
 - Progress Seminar Organized for ME/MTech Students
 - PhD Supervisors
 - PhD / ME / MTech Pursuing Faculties
- AQIS Proposals
 - Research Promotion Schemes
- Patents Filed
- Books / Chapter Published
- Technical Paper Published in International / National Journal / Conference by Faculty / Students
- Technical Awards by faculty / Students

DEPARTMENT OF COMPUTER SCIENCE and ENGINEERING

Present Research Activities:



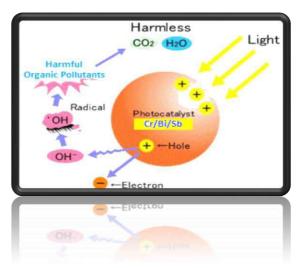
Project by Ms. Ranjana Shende

The hardware model is used for demonstrating hardware movement using hand and head gesture. Four wheels are used in this for proper balancing. The movement of wheels is controlled by D.C. motors which are attached to the hardware. Only two motors are located on the backside wheels. One backside wheel located on left side of the hardware is controlled by one motor and the wheel on the right side is controlled by the second motor. The other circuitry built into the hardware includes the microcontroller and other devices.

DEPARTMENT OF FIRST YEAR ENGINEERING

Present Research Activities

Research Topic:- Synthesis and characterization of visible light driven Photocatalysis for degradation of organic pollutants in aqueous Media



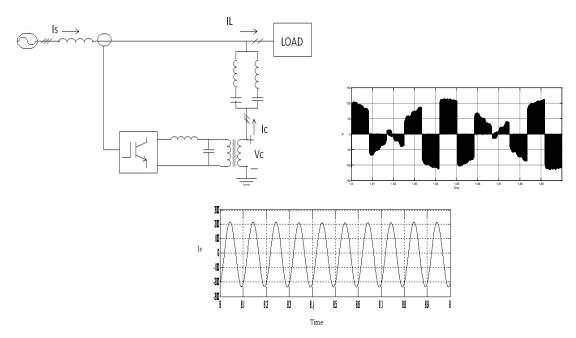
Research Project by Mr.S.R.Patil

The research work embodies an account of the synthesis of visible light active photocatalysts mainly chromate, bismathate and antimonate prepared by different methods under mild conditions. The different preparation methods are sol-gel, ultrasonic, salvo-combustion and solid state methods. The resulting prepared photocatalysts has been characterized on the basis of XRD, diffuse reflectance study, SEM Raman study. The x-ray diffraction patterns of the material under the present investigation have been carried out to know the stiochiometry and three dimensional structures. SEM analysis is use to know morphological features of the prepared visible light active photocatalysts. Methylene blue has been selected a refractory model compound in this oxidation process. The photocatalytic degradation of methylene blue with different concentration of dye as well as photocatalyst has been studied. The results are interesting in view of their degradation. Further it is reported that Microstructure is an important factor that influences properties. Hence different preparation methods and characterization were adopted for comparative study and for better catalytic performance.

DEPARTMENT OF ELECTRICAL ENGINEERING

Present Research Activities

Research Topic: Power Quality Improvement In Matrix Converter Using Hybrid Filter

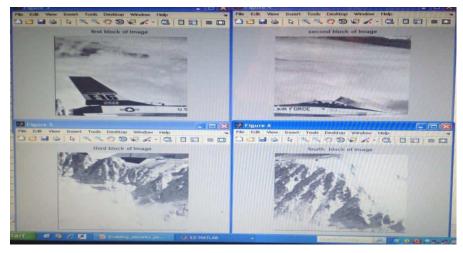


Research Project by Ms.Rashmi Phasate

This project proposes a hybrid filter to minimize the power quality impact instead of using passive or active filter of the matrix converters. Matrix converters inject significant harmonics and nonstandard frequency components into power systems. The proposed filter eliminates the total line current harmonics efficiently. The smaller Total Harmonic distortion the harmonic pollution in the power system will be reduced and the power quality will be increased. A hybrid filter constructed of a shunt active filter and distributed passive filters used for power quality improvement. The proposed approach has been tested and validated on the matrix converter using Matlab/Simulink. The comparison of Simulation results for passive and active filter separately used with matrix converter with the result of matrix converter with hybrid filter is shown to demonstrate the advantages of the proposed scheme.

DEPARTMENT OF ELECTRONICS ENGINEERING

Present Research Activities :



Research Project by Mr.U.M.Gokhale

For strict authentication we present a method based on Integer Wavelet transform, the proposed algorithm can detect malevolent manipulations but is not robust to noise or other attacks. Any modification made to the original image is reflected in the watermark. Hence tampering in the image can be detected easily and accurately. The other method presented is based on reversible watermarking. In the existing reversible watermarking algorithms there is always a tradeoff between higher data embedding capacity and degree of perceptibility. The proposed algorithm achieves both high embedding capacity and imperceptibility.

WORKSHOP ON RESEARCH METHODOLOGY



A three day workshop on "Research Methodology" was conducted from 7th December 2011 to 9th December 2011 at G.H.Raisoni Institute of Engineering & Technology for Women, for the teaching faculty and M.Tech Students of GHRIETW. Large number of subjects such as choice of subject for the research, how to carry out literature survey, research methods, data collection and analysis, presentation of results, thesis and technical paper writing, evaluation of research and patent registration were covered. The workshop was inaugurated in presence of Dr.P.R.Bajaj, Director, G.H.RaisoniCollege of Engineering, Dr.V.K.Chandrakar, Principal, G.H.Raisoni Institute of Engineering & Technology for Women, and Dr.D.J.Tidke. Dr.S.B.Jaju, Professor GHRCE and Mrs S.P.Hingway, Professor Raisoni Institute of engineering & technology for Women were the coordinators for the workshop.

A team from GHRCE worked hard to make this workshop a success. Dr.P.R.Bajaj,Dr.D.J.Tidke,Dr.L.G.Malik,Dr.A.Y.Deshmukh,

Dr.R.M.Deshpande, Dr.P.B.nagarnaik, Dr.S.B.Jaju, Dr.B.V.Khode, Dr.U.S.Wank hede, Prof.S.D.Giripunje, Dr.S.S.Dorle and Prof. Prashant Sharma addressed the gathering on various topics.

TECHNICAL PAPERS PUBLISHED

Technical Papers Published in Journals

First Year Engineering

Sr. No	Name of faculty	Name of Published Paper	Name of Journals/Vol.No./Issue No./Pg.No./ISBN/ISSN/I.P.
1	Dr. V.R. Kinhikar	"Removal of Nickel (II) from Aqueous Solutions by Adsorption with Granular Activated Carbon(GAC)"	International Journal of Chemical Science. Vol. 2(6),6-11,June (2012). (ISSN No. 2231-606X)
2	Dr. V.R. Kinhikar	"Nickel Adsorption From Aqueous Solution By F-200 GAC By Adsorption Technology."	International Journal of Advances in Technology and Engineering Sciences. Vol I, Issue 7(V) April 2012.(ISSN No.2249-7455
3	Dr. V.R. Kinhikar	Granular Activated carbon - A good adsorbent for removing metal ions from aqueous solution."	National Seminar on Technology innovations with environmental integrity".Amaravati,28th Feb 2012. (ISBN No.978-81-922256-5-4.)
4	S.V.Ganorkar	Review of various gripping mechanisms for a prosthetic hand	Int.J.of Multidispl. Research and Advcs.in Engg.(IJMRAE), Vol. 4,III(JULY 2012),pp. 91-98 ISSN 0975-7074,

Department of Electrical Engineering

Sr.	Name of Faculty	Title of Paper	Name of Journal/ Vol. No. / Issue
No.			No. / Year/ Page No./ ISSN No./
			ISBN No./ Impact Factor
1	Dr .V. K. Chandrakar	Influence of electric field on the	International Journal of Engineering
		chaotic behavior of gas solid	Research and Technology, Vol- 5
		suspension that is fluidized bed	(Jan-Jun 2012), ISSN No. 2278-
		based on pressure fluctuations	0181;I. F1.76
2	Dr .V. K. Chandrakar	Effect of electric field on the	International journal of Chemical
		hydrodynamics of gas –solid	Engineering
		fluidized bed	Vol -5, (Jan-Jun 2012),ISSN
			No.1687-8078;
3	Dr .V. K. Chandrakar	Experimental study of Thyristor	International Journal of Engineering
		controlled reactor (TCR) and	Science and Technology, Issue 6,
		GTO controlled series capacitor	Vol. 3, June 2011, pp 4824-4832,
		(GCSC)	ISSN No. 2277-5293
4	Rashmi S. Phasate	Power quality improvement in	IJSAA (International Journal of
		matrix converter using hybrid	Systems, Algorithms &
		filter.	Applications), Vol. 2; 31st May, 12,
			Issue-5; pp 47-51; ISSN No.178-93-
			81693-50-6
5	M.A Bodkhe	Design & Implementation of	IJEEE-2012 (International Journal
		single stage PFC Micro	in Electrical and Electronics
		Controller Based Drive For	Engineering), Vol. 1; 2012, Issue 3;
		PMBLDC motor	pp118-122; ISSN No. 2231-5284;

Department of Electronics/Electronics and Telecommunication

C	Nome of Feaulty Title of Denon Name of Journal/Val No / James		
Sr. No.	Name of Faculty	Title of Paper	Name of Journal/ Vol. No. / Issue No. / Year/ Page No./ ISSN No./ ISBN No./ Impact Factor
1.	Dr.U.M.Gokhale	A semi fragile Watermarking Algorithm based on SVD-IWT for Image Authentication	International Journal of Advanced Research in Computer and Communication Engineering/ vol. 1, Issue 4, June 2012, pp.213-218.
2.	Dr.U.M.Gokhale	Integer Wavelet Transform based Digital Signature Scheme for Image Authentication	International Journal of Engineering Research and Industrial Applications/(IJERIA) Vol. 4 No.III/ISSN 0974-1518/(August 2011), pp.231-242.
3.	Dr.U.M.Gokhale	A Fragile Watermarking Algorithm for Strict Image Authentication in the Wavelet Domain	CIIT International Journal of Digital Image Processing/ Vol. 3,No 10, June2011,pp. 595-599.
4.	Dr.U.M.Gokhale	Reversible Data Hiding Using Increased Peak Histogram and Block Division	International Journal of Multidisciplinary Research and Advances in Engineering (IJMRAE)/ Vol.3 No. I January2011, pp.389-398./Impact Factor-0.2015/ISSN 0975-7074
5.	Dr S P Hingway	TwoSimpleShockGraphStructuresforObjectRecognition using EulerString	CiiT International Journal for Digital Image Processing, India,/ Vol 4, No 7 April 2012
6.	Dr S P Hingway	An Improved Shock Graph for an Improved Object Recognition	Cyber Journal of Selected Areas in Software Engineering, Canada, May 2011.
7.	Mrunalini Moon	Image processing and pattern generation	IJERA (International journal of engineering research & application)/ 17/ISSN:2248-9622 vol.2 Issue-5 PP-1888-1893 2012
8.	Darshan P . Pendhari	Design of mobile robot for indoor monitoring system using SLAM technique	TIJCSA(International journal of computer science & application)/ ISSN :2278-1080 Vol-01-No-02 Apr-12
9.	Mamata Mahajan	Design of least mean square algorithm for adaptive noise canceller	International journal of advanced engineering & technologies (IJAEST)/ Vol .No 5 Issue No 2, 2011, pp 172-176, ISSN :2230-7818
10.	Dinesh Rotake	A Design approach for traffic volume monitoring and intelligent signal control system	The International Journal of Computer Science & Applications /TIJCSA/ ISSN - 2278-1080 Vol .1 No .2 April -2012
11.	Dinesh Rotake	Intelligent traffic signal control system using embedded system.	International institute for science & education(IISTE)/ ISSE -2222-1727 ISSN -2222-2871 online vol.3 No .5 2012
12.	Sheeja S.Suresh	Design of conveyor monitoring controller with wireless system.	International journal on advanced electronics engineering/ IJAEE/UACEE-ICACCN 2011
13.	Sheeja S.Suresh	Design of conveyor monitoring	SEEK Digital library of UACEE/

		controller with wireless system.	June 2011 / ISBN : 978-981-07- 8859-9.
14.	Pranjali Awachat	6 11	IJERA (International journal of engineering research & application) Vol2, Issue 4, Jul 2012 PP 2348- 2391 1.17

Department of Computer Science & Engineering/ Information Technology

Sr. No.	Name of Faculty	Title of Paper	Name of Journal/Volume Number/ Issue Number/Year /ISBN/ISSN/Impact Factor
1.	Prof.P.S. Mohod	Hybrid color frequency feature with kernel fisher analysis for face recognition	International journal of Computer Applications/ 2011 /ISBN No 978- 93-80866-59-0/Impact factor 0.821
2.	Prof.P.S. Mohod	Face Recognition using PCA	International journal of Artificial Intelligence and Knowledge Discovery/Vol No 1/ Issue No 1/January 2011/ ISBN:978-981-08- 7932-7
3.	Ms.Pratibha Mishra	Human Gait Recognition Using Bezier Curves	International Journal of Computer Science and Engineering/ Vol No 3 / Issue No 2 /February 2011/ ISSN: 0975-3397
4.	Ms.Pratibha Mishra	Human Gait Recognition using Local Binary Pattern Variance	International Journal of Advanced Engineering Science and Technology/ Vol No. 7/Issue No. 2/ Year 2011/ ISSN: 2230-7818
5.	Ms.Pratibha Mishra	Human Gait Recognition Using Gaussian Membership Function	International Journal of Advanced Engineering Science and Technology/ Vol No. 3/Issue No. 1/020 – 023/Year – 2011/ ISSN: 2230-7818
6.	Ms.Ranjana Shende	Cellular Automata Image Extraction Algorithm for Gestures Recognition	International Journal of Computer Science and technology/ Vol No 2/Issue No 2/ June 2011/ ISSN:2229- 4333
7.	Ms.Ranjana Shende	Connected Component Algorithm for Gestures Recognition	International journal of Computer and Communication Technology 2011
8.	Ms. Priyanka Fulare	False Data Detection in Wireless Sensor Network wi th Secure communication	International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN) Volume-1, Issue-1, 2011
9.	Ms.Amruta Moon	Impact of Kernel Fisher Analysis Method on Face Recognition	International Journal of Engineering Advanced Technology/ Vol No 2/ Issue No 3/ February 2013/ ISSN:2249–8958
10.	Ms.Amruta Moon	Kernel Fisher Analysis Method for Face Recognition	International Journal of Emerging Technology and Advanced Engineering/ Vol 2, Issue 1, January 2012/ ISSN 2250-2459
11.	Ms.Minal Kamble	Detecting Image Spam Using Principal Component Analysis & SVM Classifier	International Journal of Computer Science and Information Technology & Security/ Vol. 2, No. 6, December 2012/ ISSN: 2249-9555
12.	Ms.Minal Kamble	Detecting Image Spam Based on Image Features using Maximum Likelihood Technique	International Journal of Computer Science and Technology/ Vol. 3,Issue 1/ March 2012/ ISSN: 0976- 8491

13.	Ms.Pranali	Digital Image Encryption Using	International Journal of Advanced
	Suryawanshi	Inter-Pixel Displacement of RGB	Studies in Computer Science &
		Attribute	Engg. Vol. 1/ Issue 4/ 2012/ ISSN
			2278-7917
14.	Ms.Snehal	Human Gait Recognition By	International Journal of
	Kathale	Opencv	Computational Biology/ Vol. 3,
			Issue 1, 2012/ ISSN:2229-6700
15.	Ms.Priti Saktel	An Improved Approach for Word	International Journal of Human
		Ambiguity Removal	Computer Interaction/Vol No 3/Issue
			No 3/ 2012/ ISSN 2180-1347
16.	Ms. Gunjan	Embedded Extended Visual	International Journal of computer
	Lonarkar	Cryptography Schemes For	Science/ Vol 2, Issue 1, 2012, pp
		Different Patterns	14-17/ ISSN:2249-7013

Technical Papers Published in Conference

Sr. Name of Paper Name Name of Conference/ Impact factor / ISBN No/ISSN No. No faculty Dr. V.R. Technological Innovation with Granular Activated carbon-A good 1 Environmental Integrity Kinhikar adsorption for removing metal ions from aqueous solution 28th Feb 2012 Organized by Shree H V P Mandal's college og engg, and Technology Amravati. Dr. V.R. "International conference on 2 (Poster presentation) Topic :-Environmental impact and Integrated Kinhikar Comparative Studies on the Removal of Nickel (II) from Approach for carbon management Aqueous Solution by Using solutions Technology Development and Different Grades of Granular pollution Abatement." (RDEIM-IACM Activated Carbon. 2012) NEERI, Nagpur on 28-30 March 2012. "International conference on 3 Dr. V.R. (Poster presentation) Topic:-Nickel Adsorption From Aquous Solution Kinhikar Interdisciplinary Research and By F-200 GAC By Adsorption Development in management, Technology. Engineering and Technology and Social Sciences." (ICMETSS -2012)Tuli Imperial, Nagpur on 28-29 April 2012. (Poster presentation) Topic -"Chemistry for Mankind: Innovative 4 Dr. V.R. Adsorption of metal ion on granular Ideas in Life Sciences - ICCM-2011" Kinhikar activated carbon & their subsequent Organized by RTM University ,Nagpur on 9th to 11th Feb 2011. recovery. (ORAL presentation)Topic:-"International Science Congress 5 Dr. V.R. "Removal of Nickel (II) from Association- ISCA-2011." Organized by Kinhikar Aqueous Solutions by Adsorption Maharaja Ranjit Singh professional with Granular Activated carbon college, Indore on 24th & 25th Dec 2011. 6 Dr. V.R. (poster presentation) "REMOVAL U.G.C. Sponsored National conference on "Materials: Atom to Molecule" OF METAL IONS FROM Kinhikar Organized by Shri Shivaji science WASTEWATER BY ADSORPTION TECHNOLOGY." education society Amaravati's science college, congress nagar, Nagpur on 16th Dec. 2011. "Chemistry for Mankind: Innovative 7 Mrs. Manjusha (Poster presentation) Topic -R. Ugale (Mrs. Adsorption of metal ion & their Ideas in Life Sciences - ICCM-2011" M.H. Aware) subsequent recovery. Organized by RTM University Nagpur on 9th to 11th Feb 2011. 8 Ms. S.S. 'An epidemic model with non – International conference on monotonic incidence rate' Khekare mathematical sciences 28-31dec-2012, Nagpur "present development & Future trends in "Axially symmetric cosmological 9 Ms. Anisa Ahmad model in seas – Ballester theory of mathematical science 28gravitation" 29thjanuary2012,Nagpur "Axially symmetric cosmology "present development & Future trends in 10 Ms. M.K. Tote model in seaz - ballester theory of mathematical science 28gravitation" 29thjanuary2012,Nagpur

First Year Engineering

Department of Electrical Engineering

Sr. No.	Name of Faculty	Title of Paper	Name of Journal/ Vol. No. / Issue No. / Year/ Page No./ ISSN No./ ISBN No./ Impact Factor
1	Dr .V. K. Chandrakar	Influence of electric field on the chaotic behavior of gas solid suspension that is fluidized bed based on pressure fluctuations	International Journal of Engineering Research and Technology, Vol- 5 (Jan-Jun 2012), ISSN No. 2278-0181;I. F 1.76
2	Dr .V. K. Chandrakar	Effect of electric field on the hydrodynamics of gas –solid fluidized bed	International journal of Chemical Engineering Vol -5, (Jan-Jun 2012),ISSN No.1687-8078;
3	Dr .V. K. Chandrakar	Experimental study of Thyristor controlled reactor (TCR) and GTO controlled series capacitor (GCSC)	International Journal of Engineering Science and Technology, Issue 6, Vol. 3, June 2011, pp 4824-4832, ISSN No. 2277-5293
4	Rashmi S. Phasate	Power quality improvement in matrix converter using hybrid filter.	IJSAA (International Journal of Systems, Algorithms & Applications), Vol. 2; 31st May,12, Issue-5; pp 47-51; ISSN No.178-93-81693-50-6
5	M.A Bodkhe	Design & Implementation of single stage PFC Micro Controller Based Drive For PMBLDC motor	IJEEE-2012 (International Journal in Electrical and Electronics Engineering), Vol. 1; 2012, Issue 3; pp118-122; ISSN No. 2231- 5284;

Department of Electronics/ Electronics and Telecommunication

Sr. No.	Name of Faculty	Paper Name	Name of Conference/Venue/ Date
1.	Dr.U.M.Gokhale	A new Watermarking algorithm based on Image Scrambling and SVD in the Wavelet Domain"	Second International Conference On Advances In Computer Engineering – ACE 2011, Held On 25 -26 Aug 2011 At Trivandrum, Kerala, INDIA
2.	Dr. S.P. Hingway	Novel architecture of wireless e- health monitoring.	International Conference On Electrical Engineering And Computer Sciences (ICAEECS-2012)
3.	Mr. Darshan D. Pendhari	Design of Autonomous navigation Systems using SLAM Technique for Environment monitoring	International Conference On Recent Trends Of Computer Technology In Academic (CSI) 2012
4.	Mr. Nishant Pandey	Fuzzy logic control in digital signal processors.	National Conference On Advances In Electronics And Communication Engineering NCAECE-11,SVSS ,Nagpur 20-21 Oct 2011
5.	Ms. S.K. Thakur	Comparison between VHDL & MATLAB for FFT & IFFT block	International Conference On Latest Trends In Nanoscience And Nanotechnology On 28th And 29th March 2011
6.	Ms. S.P. Suryawanshi	Differentiator using PFG (Pseudo Floating Gate)	International Conference On Computer Application (ICCA,2012)
7.	Ms. S.P. Suryawanshi	Design of analog circuits using PFG(Pseudo Floating Gate)	International Conference On Electrical Engineering And Computer Science(ICEECS 2012)Held At GOA
8.	Mrs. P.T. Kene	Bluetooth Communication using Android	National Conference On Advance Technology NCOAT-NIRMITI 2011NCOAT-NIRMITI March 08-09 2011
9.	Mrs. P.T. Kene	Autodeteting Mobile Lost Status	National Conference On Advance Technology NCOAT-NIRMITI 2011NCOAT-NIRMITI March 08-09/ 2011
10.	Mrs. Sheeja S. Suresh	Design of conveyors Monitoring Controller with Wireless Systems	International Conference On Advance Computing ,Communication And Networks (ICACCN-2011) Held At Chandigarh
11.	Mrs. Sheeja S. Suresh	Design of conveyors Monitoring Controller with Wireless Systems	National Conference On Advance Technology NCOAT-NIRMITI 2011NCOAT-NIRMITI March 08-09 2011
12.	Mr. Prasad R. Sangare	A Comparison of Fuzzy Clustering Techniques for Image Segmentation	International Conference On Computer Application (ICCA,2012)
13.	× ·	Fuzzy clustering methods For image segmentation: A Survey	National Conference On Advances In Electronics And Communication Engineering NCAECE-11, SVSS, Nagpur 20-21 Oct 2011
14.	Kshama Dawile	Implementation of DSSS based CDMA transmitter & receiver using Gold code for FPGA	International Conference On Electronics And Communication Engineering (ICECE-2012)
15.	Kshama Dawile	Implementation of DS-SS based CDMA transmitter & receiver using	International Conference On Computer Application (ICCA,2012)

		Gold code for FPGA	
16.	P.M.Awachat	Speaker identification using neural network	International Conference On Electronics And Communication
			Engineering 25-27JAN(ICECE-2011)

Sr. No.	Name of Faculty	Title of Paper	Name of Conference
1.	Ms.Pranali Suryawanshi	Comparative Study of Digital Image Encryption Techniques	National Conference on Innovative Research Trends in Computer Science Egg. & Technology on 3rd-4th Dec,2012 organized by G.H.Raisoni College of Engineering,Nagpur,India
2.	Mr.Ravindra Kale	Text Data Encryption and Compression for High-speed and Secure Data Transmission in Wireless Network: A Survey	National Conference on Innovative Research Trends in Computer Science Egg. & Technology,2012 ISBN 978-93-5087-879-8 organized by G.H.Raisoni College of Engineering, Nagpur,India
3.	Mr.Ravindra Kale	Implementation of an Efficient Data Security and Compression algorithm in Wireless network	International Conference on Interdisciplinary Research & development in Management, Engineering Technology and Social Sciences on 28th-29th April 2012 organized by Choice Institute of Management Studies & Research,Pune,india
4.	Mr.Ravindra Kale	Data Reduction by Huffman Coding and Encryption by DES in Wireless Network	International Conference on Electronics & Communication Engineering on 16th April 2012 organized by InterScience Research Network,Pune,India
5.	Mr.Ravindra Kale	Survey of Secure Compression in Wireless Network	National Conference on Current Trends in Engineering & Technology on 15th Dec 2011 organized by Central India College of Engineering & Technology,Lonara,Nagpur,India
6.	Ms.Priti Saktel	Context Based Domain Identification for Resolving Ambiguity	International Conference on Computing Communication and Networking Technology on 26th-28th July 2012 organized by SNS College of Engineering, Coimbatore, India
7.	Ms.Priti Saktel	Context Based Meaning Extraction for HCI Using WSD Algorithm: A Review	IEEE-International Conference On Advances In Engineering, Science And Management on March 30th – 31st, 2012 organized by E.G.S.Pillay Engineering College,Nagapattinam,Chennai
8.	Ms.Minal Kamble	Image Spam Detection : A Review	International Conference on Advances in Computer Science and Electronics Engineering ISBN: 978-981-07-1403-1 on 2nd -3rd Feb 2012 organized by Universal Association of Computer and Electronics Engineers New Delhi, India

Total number of Technical Papers Published/Presented up-to-date.

International	National Publications	Total Publications
Publications		
58	11	69

PHD SUPERVISORS

Sr.No	Name of Supervisor	Branch	Area of Specialization
1	Dr.V.K.Chandrakar	Electrical	FACTS
2	Dr.V.R.Kinhikar	Organic Chemistry	Adsorption Technology
3	Dr.R.J.Dhokne	Applied Physics	Polymer Composite and Polymer Biodegradation

LIST OF PHD PURSUING FACULTIES

Sr.No	Name of Faculty	Branch	Area of Specialization
1	Mrs.S.P.Hingway	Electronics	Image Processing, Pattern
			Recognition,
			Communication Systems &
			Aligned Areas
2			
	Mr.U.M.Gokhale	Electronics	Image Processing and VLSI
3	Mr.S.R.Patil	Applied Chemistry	Photo Catalysis

List of MTECH Pursuing Faculties

Sr.No	Name of Faculty	Branch
1	Ms.Minal Kamble	Computer Science &
		Engineering
2	Ms.Amruta Moon	Computer Science &
		Engineering
3	Ms.Sarah Ahmed	Computer Science &
		Engineering
4	Ms.Kanchan Mankar	VLSI
5	Ms.Sheeja Suresh	VLSI
6	Ms.Shweta Thakur	VLSI
7	Ms.R.Phasate	Electrical

