

Curriculum Vitae

Prof. (Dr.) CK Kumbharana

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❖ Personal information

- (1) **Name** : Chandresh Karsanbhai Kumbharana
- (2) **Designation** : Professor and Head
- (3) **Gender** : Male
- (4) **Date of birth** : 18th October 1967
- (5) **Nationality** : Indian
- (6) **Work place** : Department of Computer Science
Saurashtra University
Rajkot – 360005
(0281) 2585232, 2587340
- (7) **Address** : “Vraj Dham”
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Vimal Nagar,
Rajkot – 360005
- (8) **Languages known** : Gujarati, Hindi, English
- (9) **Experience** : 2nd December, 1991 onwards Department of
Computer Science, Saurashtra University,
Rajkot

(10) Educational Qualifications					
No.	Degree	Year	University	Marks	Subject
1	Ph.D. *	2008	Saurashtra University	-	Computer
2	MCA	1991	Sardar Patel University	60.10	Computer
3	B.Sc.	1987	Saurashtra University	70.71	Physics

* **Title of Thesis:** Speech pattern recognition for speech to text conversion.

❖ Orientation Programme and Refresher Courses	
Attended	
(1)	Orientation course conducted by academic staff college, Saurashtra University, Rajkot during 23-05-1994 to 18-06-1994.
(2)	Refresher course conducted by Academic staff college, Saurashtra University during 16-11-1998 to 06-12-1998.
(3)	Refresher course conducted by Department of Computer Science, Sardar Patel University. V.V. Nagar during 31-05-1999 to 19-06-1999.
(4)	Refresher course conducted by Department of Computer Science, Sardar Patel University. V.V. Nagar during 01-11-2000 to 21-11-2000.
(5)	Refresher Course (A pilot refresher course in IT specially conducted by UGC) conducted by Academic staff College, Goa University, Goa during 10-09-2003 to 30-09-2003 (Nominated by Vice chancellor, Saurashtra University, Rajkot)
(6)	Refresher course conducted by Academic Staff College, Himachal Pradesh University, Shimla during 16-08-2006 to 06-09-2006.
Resource Person	
•	Worked as a resource person in many orientation programmes and refresher courses.
Coordinator	
•	Worked as a coordinator in Refresher course no 184 (08-03-2010 to 28-03-2010), organized by Academic Staff College, Saurashtra University, Rajkot.
•	Worked as a coordinator in Refresher course no 190 (07-03-2011 to 27-03-2011), organized by Academic Staff College, Saurashtra University, Rajkot.
•	Worked as a coordinator in Refresher course no 194 (12-03-2012 to 01-04-2012), organized by Academic Staff College, Saurashtra University, Rajkot.
•	Worked as a coordinator in Refresher course no 198 (11-03-2013 to 31-03-2013), organized by Academic Staff College, Saurashtra University, Rajkot.

❖ Ph.D. guide			
Srno	Name of university	No of students registered	No of students completed
1	Saurashtra University, Rajkot	3	8

❖ Ph.D. students guided				
Srno	Name	Thesis title	University	Viva Date
1	Hetal Thaker	Analysis and recognition of handwritten character and its patterns	Saurashtra University, Rajkot	23-02-2015
2	Miss Vithlani Purna J	A study of optical character pattern identified by the different OCR algorithm and generation of model for the elimination in deficiency in identifying the pattern of optical character	Saurashtra University, Rajkot	19-08-2015
3	Mr. Divyakant Meva	Study the issues and solutions of multimodal biometrics authentication system based on fingerprint and facial recognition with neural network approach	Saurashtra University, Rajkot	26-09-2015
4	Vimal Parmar	Analyzing the inputted text and recognizing the different text patterns for automatic evaluation of computerized test	Saurashtra University, Rajkot (01-01-2013, 5242)	15-12-2015
5	Mr. Kothari Jitendra J	Recognition of text pattern for text to speech conversion	Saurashtra University, Rajkot (01-01-2012, 4756)	31-12-2015
6	Mr. Bhavin Jasani	Analyzing search engine mechanism and developing a prototype for web crawling architectural model for effectiveness of search engine.	Saurashtra University, Rajkot (01-01-2011, 4300)	30-06-2016

7	Mr. Vaibhav Gandhi	Study and analyze existing cloud architectures and suggest suitable model for E-governance	Saurashtra University, Rajkot Reg. date 01-01-2011 4301	01-03-2018
8	Mr. Apurva Pandya	Image pattern recognition for designing and developing an algorithm for image compression	Saurashtra University, Rajkot Reg. date : 01-01-2011 4297	01-03-2018

❖ Ph.D. students working				
Sr no	Name	Thesis title	University	Registration date & number
1	Gorvadiya Amit Chandreshbhai	Analysing various algorithms of character recognition to develop a model to recognise handwritten characters	Saurashtra University, Rajkot	01-01-2016 16005
2	Shah Viral Kaushikbhai	Security concern by designing and developing algorithm for stegaography	Saurashtra University, Rajkot	01-01-2017 17158
3	Ranpara Ripal Dilipbhai	Design and Development of Contextual Information Retrieval algorithm using Ontology and Semantics	Saurashtra University, Rajkot	01-01-2018 18033

❖ Ph.D / M.Phil. Thesis evaluated and worked as referee				
Srno	Degree	Name	University	Thesis title
1	M.Phil	Shreya B Bhabsar (24-07-2010)	SP Uni., Vallabh vidya Nagar	Integrated packed for image processing
2	M.Phil	Monika B Patel (24-07-2010)	SP Uni., Vallabh vidya Nagar	Image and text watermarking
3	Ph.D.	Ateet Mehta (24-01-2011)	Verr Narmad Sought Gujarat University, Surat	Standardizing data structure for efficient processing, faster retrieval and effective management of biological data.
4	Ph.D.	Prashant Pravinvandra Pittalia (13-06-2011)	Bhavnagar Uni., Bhavnagar	-
5	Ph.D.	P. Srivaramangai	Mother teresa women's university	Enhancements to reputation based trust model for improved reliability in grid
6	Ph.D.	Jeegar A Trivedi (14-03-2013)	SP Uni., Vallabh Vidya Nagar	Design of Neuro-Fuzzy Advisory system using type 2 fuzzy logic
7	Ph.D.	Kunjil Bharatkumar Mankad	SP Uni., Vallabh Vidya Nagar	A genetic – fuzzy approach to measure multiple intelligence
8	Ph.D.	Mijalkumar Anilbhai Mistry (30-10-2013)	SP Uni., Vallabh Vidya Nagar	A methodical approach for communication & co-operation between agents using ontology for healthcare
9	Ph.D.	Miss Nehal P. Daulatjada (30-10-2013)	SP Uni., Vallabh Vidya Nagar	Domain specific ontology for student's information in academic institution
10	Ph.D.	Mr. Navneet Sharma	Suresh Gyan Vihar University, Jaipur	Analysis of vulnerability and security issues over auto teller machine transactions and design of a general security model

11	Ph.D.	Mr. Hardik Bhalchandra Pandit	SP Uni., Vallabh Vidya Nagar	Decision support system for healthcare on the basis of medical palmistry through digital image processing and analysis
12	Ph.D.	Mr. Gundigara Kalpesh Upendrabhai	Bhavnagar Uni., Bhavnagar	A survey, analysis and IT Tolls for knowledge acquisition and rehabilitation of disabled people
13	Ph.D.	Shailendrasinh Jadeja	Hemchandracharya North Gujarat University Patan	<i>Studying, modeling and prototyping adaptive e-learning system</i>
14	Ph.D.	Thaker Hetal (23-02-2015)	Saurashtra University, Rajkot	Analysis and recognition of handwritten character and its patterns
15	Ph.D.	P Nithya	Manonmaniam Sundaranar University, Tirunelveli	Discovery of web usage patterns from web logs using fuzzy clustering approach
16		Gajendra Singh Rajawat	Mahatma Jyoti Rao Phoole University, Jaipur	An approach to design and analysis of e governance for the state of Rajasthan: Technology implementation and user centric view
17	Ph.D.	Mr. Divyakant Meva (26-09-2015)	Saurashtra University, Rajkot	Study the issues and solutions of multimodal biometrics authentication system based on fingerprint and facial recognition with neural network approach

18	Ph.D.	Miss Vithlani Purna J (19-08-2015)	Saurashtra University, Rajkot	A study of optical character pattern identified by the different OCR algorithm and generation of model for the elimination in deficiency in identifying the pattern of optical character
19	Ph.D.	Mr.Kirtan Prakashchandra Dave	Sardar Patel University, VV Nagar	Analysis and Integration of Biological Data for Metabolic Pathway Network Reconstruction by Computational System Biology Approach
20	Ph.D	Mr. Kothari Jitendra J	Saurashtra University, Rajkot	Recognition of text pattern for text to speech conversion
21	Ph.D	Vimal Parmar	Saurashtra University, Rajkot	Analyzing the inputted text and recognizing the different text patterns for automatic evaluation of computerized test
22	Ph.D.	Sheetal Rakangor	R K University, Rajkot	Development of computer-based intelligent system for drawing (to set) question paper
23	Ph.D.	Anubha Jain	The IIS University Gurukul Marg, SFS Mansarovar Jaipur.	Enhancing information access and retrieval techniques for a typical information architecture
24	Ph.D	Mr. Mukesh Kumar	Himachal Pradesh University, Shimla	Efficient mining of emerging patterns in time series stock data : A prediction model

25	Ph.D	Bhavin Jasani	Saurashtra University, Rajkot	Analyzing search engine mechanism and developing a prototype for web crawling architectural model for effectiveness of search engine.
26	Ph.D	K. Prabavathi	Manonmaniam Sundaranar University, Tirunelveli	Design and development of information retrieval system from biotext corpus
27	Ph.D.	Zulfa Shaikh	Banasthali university, Banasthali Vidyapith, Rajasthan.	Efficient secure multiparty computation during privacy preserving data mining: design of efficient protocols for Indian healthcare sector
28	Ph.D.	Mr. Jaimin N Undavia	Changa University, Changa	Data mining technique: Analysis and strategic decision support system for students to assist in their career
29	Ph.D.	Geetika Singh	Panjab University, Chandigarh	Development and performance analysis of human face recognition techniques
30	Ph.D.	V. Tanuja	Sri Venkateswara University, Tirupati	A study and design of novel trajectory data mining techniques with specific applications on business data to improve customer relationship management.
31	Ph.D.	Ms. Rupal Dineshchandra Bhatt	Sardar Patel University, VV Nagar	Load balancing and resource management daemons for performance analysis on computer clusters
32	Ph.D.	Mr. Nilaykumar Mohitkumar Vaidya	Sardar Patel University, VV Nagar	Design of an intelligent virtual collaborative learning environment

33	Ph.D.	Mr. L Satish kumar	Alagappa University, Karaikudi	Efficient information extraction for health care systems
34	Ph.D.	Mr. Bhavesh R Patel On	Ganpat University Mahesana	Data mining techniques for student performance enhancement
35	Ph.D.	Manisha Kaushal	PUNJAB TECHNICAL UNIVERSITY, JALANDHAR	On the soft computing based approached for object detection and tracking in videos
36	Ph.D.	Mr. Apurva K Pandya	Saurashtra University, Rajkot	Image pattern recognition for designing and developing an algorithm for image compression
37	Ph.D.	Mr. Vaibhav A Gandhi On	Saurashtra University, Rajkot	Study and analyse existing cloud architecture and suggest a suitable model for E-Governance
38	Ph.D.	Ms. Priyanka Mathur On	The IIS University Jaipur	An Evidence-based approach for discovery and assessment of software testing strategies
39	Ph.D.	Swapnil Dinubhai Patel On	SP University, VV Nagar	Designing and development of institute management system using mobile technologies
40	Ph.D.	Veenu Mor (24-09-2018)	<i>Panjab University, chandigarh</i>	Energy efficient routing model for wireless mesh networks
41	Ph.D.	Abu Sarwar Zamani On	<i>Specific University, Udaipur</i>	A research on transaction processing management in an online SOA based distributed system

42	Ph.D.	Md. Mobin Akhtar On	<i>Specific University, Udaipur</i>	A research study on analysis of online information system development
43	Ph.D.	Jyoti Rathore	Suresh Gyan Vihar University, Jaipur	Design and load balancing hybrid model (LBHM) for cloud environment

❖ Projects					
Sr no	Name of investigator	Title of project	Funding agency	Grant received	Year & status
1	Dr. CK Kumbharana	Library information sharing with hand held device (i.e. mobile) by the users	Saurashtra University, Rajkot	40,000.00	2012-2014 (On Going)

❖ Research paper published in International/National Journals	
No.	Details
International journal	
1998-1999	
(1)	Title : ERP – Its impact and career opportunities Magazine : CSI Communication, FEB –1999 Author(s) : Dr. N N Jani, CK Kumbharana
1999-2000	
(2)	Title : E-Commerce: Security Concerns – A Systematic quest Journal name : Institute of Public Enterprise, Osmania University Campus, Hyderabad during 18-19/02/2000 (M/s Allied Publishers) Author(s) : CK Kumbharana, Dr NN Jani
2009-2010	
(3)	Title : Architectural design for computerized online test (Pg 485) Journal name : International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ-ETA-ETS) 2 nd issues – July 2009 Author(s) : Dr CK Kumbharana ISSN : 0974-3588
(4)	Title : A road map from G-learning to E-learning and impact of library on E-learning (Pg 487) Journal name : International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ-ETA-ETS) 2 nd issues – July 2009 Author(s) : Dr CK Kumbharana ISSN : 0974-3588
(5)	Title : Speech Processing – An Overview (Pg 40) Magazine : Prayas (Vol.-1) (Vardhman Bharti Trust, CU Shah College of Master of Computer Application, Surendra nagar) Author(s) : Dr. CK Kumbharana
2011-2012	
(6)	Title : The Study of Adoption of Neural Network Approach in Fingerprint Recognition Journal name : International Journal of Computer Application (IJCA) (Volume – 40, No.-11, February 2012) Author(s) : Divyakant T Meva, Dr. CK Kumbharana, Amit D Kothari ISBN : 978-93-80866-51-5 DOI : 10.5120/5007-7326
2012-2013	
(7)	Title : Perceptual study of behavioral implication of usage of ICT for sustainable e-Governance in Rural India (Pg 179) Journal name : International Journal of Scientific and Research Publication (Volume 2, Issue 4) April 2012 Edition (ISSN 2250-3153) Author(s) : Alpana Upadhyay, Dr. CK Kumbharana ISSN : 2250-3153

(8)	<p>Title : Development of knowledge based framework for agriculture sector: a step towards sustainable e-governance in rural India (pg. 80)</p> <p>Journal name : International journal of research in computer application and management Volume no – 3 Issue no. – 2, February - 2013</p> <p>Author(s) : Alpana Upadhyay, Dr. CK Kumbharana</p> <p>ISSN : 2231-1009</p>
(9)	<p>Title : Comparative Study of Different Fusion Techniques in Multimodal Biometric Authentication</p> <p>Journal name : <i>International Journal of Computer Applications (IJCA) (0975 – 8887) Volume 66– No.19, March 2013</i></p> <p>Authors : Divyakant T Meva, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80873-79-1</p> <p>DOI : 10.5120/11192-6323</p>
(10)	<p>Title : Study of Different Off-line Handwritten Character Recognition Algorithms for Various Indian Scripts (0975 – 8887)</p> <p>Journal name : <i>International Journal of Computer Applications (IJCA) (0975 – 8887) Volume 65– No.16, March 2013</i></p> <p>Authors : Hetal Thaker, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80873-56-7</p> <p>DOI : 10.5120/11008-6330</p>
(11)	<p>Title : Comparative knowledge management framework for strengthening sustainable e-Governance : various sectors of rural India</p> <p>Journal name : Productivity (A journal by National productivity council (under ministry of commerce and industry, Govt. of India)Vol. 53 No. 3, December - 2012</p> <p>Author(s) : Alpana Upadhyay, Dr. CK Kumbharana</p>
(12)	<p>Title : Modeling Campus VLAN using OPNET Simulation</p> <p>Journal name : Journal of Mobile Computing, Communications & Mobile Networks Volume 1, Issue 1</p> <p>Author(s) : Nayan V Jobanputra, Ashvini D Joshi, Chandresh K Kumbharana, Nikesh A Shah</p>
2013-2014	
(13)	<p>Title : Future Aspects of Biometrics in the Era of Cloud Computing</p> <p>Journal name : CIIT - International journal by Coimbatore Institute of Information Technology Manuscript no is CIIT-IJ-5016 February - 2014</p> <p>Author(s) : Divyakant T Meva, Dr. CK Kumbharana</p>
2014-2015	
(14)	<p>Title : Study of different Trends and Techniques in Face Recognition</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 96– No.8, June 2014</p> <p>Authors : Divyakant T Meva, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80882-28-3</p> <p>DOI : 10.5120/16811-6548</p>

(15)	<p>Title : Study and Analysis of various preprocessing approaches to enhance Offline Handwritten Gujarati Numerals for feature extraction</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 4, Issue 7, July 2014 (ISSN 2250-3153)</p> <p>Author(s) : Hetal Thaker, Dr. CK K Kumbharana</p> <p>ISSN : 2250-3153</p>
(16)	<p>Title : Designing and developing a model for converting image formats using Java API for comparative study of different image formats</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 4, Issue 7, July 2014 (ISSN 2250-3153)</p> <p>Author(s) : Apurav Pandya, Dr. CK K Kumbharana</p> <p>ISSN : 2250-3153</p>
(17)	<p>Title : Preprocessing and Segregating Offline Gujarati Handwritten Datasheet for Character Recognition</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 97/Number 18</p> <p>Authors : Hetal Thaker, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80882-78-3</p> <p>DOI : 10.5120/17110-7777</p>
(18)	<p>Title : Study Existing Various Phonetic Algorithms and Designing and Development of a working model for the New Developed Algorithm and Comparison by implementing it with Existing Algorithm(s)</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 98– No.19, July 2014</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80883-19-1</p> <p>DOI : 10.5120/17295-7795</p>
(19)	<p>Title : Structural Feature Extraction to recognize some of the Offline isolated Handwritten Gujarati Characters using Decision Tree Classifier</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 99/Number 15, August 2014</p> <p>Authors : Hetal Thaker, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80883-30-8</p> <p>DOI : 10.5120/17452-8381</p>
(20)	<p>Title : Analysis of structural features and classification of Gujarati consonants for offline character recognition</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 4, Issue 8, August 2014</p> <p>Authors : Hetal Thaker, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>

(21)	<p>Title : Optimization of energy usage for computer systems by effective implementation of green computing</p> <p>Journal name : International Journal of Advanced networking and applications (Special Issue) November – 2014 (pg 87-90)</p> <p>Authors : Vimal Parmar, Apurva Pandya, Dr. CK Kumbharana</p> <p>ISSN : 0975-0290</p>
(22)	<p>Title : Issues and challenges of security in cloud computing environment</p> <p>Journal name : International Journal of Advanced networking and applications (Special Issue) November – 2014 (pg 108-111)</p> <p>Authors : Divyakant Meva, Dr. CK Kumbharana</p> <p>ISSN : 0975-0290</p>
(23)	<p>Title : Comparative study of Amazon EC2 and Microsoft Azure cloud architecture</p> <p>Journal name : International Journal of Advanced networking and applications (Special Issue) November – 2014 (pg 117-123)</p> <p>Authors : Vaibhav A Gandhi, Dr. CK Kumbharana</p> <p>ISSN : 0975-0290</p>
(24)	<p>Title : Analyzing Different Web Crawling Methods.</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) 107(5): Volume 107 number 5, 23-26, December 2014</p> <p>Authors : Bhavin M Jasani, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80884-18-8</p> <p>DOI : 10.5120/18747-0000</p>
(25)	<p>Title : A Study of Optical Character Patterns identified by the different OCR Algorithms</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 3, March 2015</p> <p>Authors : Purna Vithlani, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
2015-2016	
(26)	<p>Title : Design and evaluation of multimodal biometric system with fingerprint and face recognition</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 4, April 2015</p> <p>Authors : Divyakant Meva, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(27)	<p>Title : Identification of Best Suitable Samples for Training Database for Face Recognition using Principal Component Analysis with Eigenface Method</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) Volume 115 – No. 12, April 2015 1</p> <p>Authors : Divyakant Meva, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80886-03-4</p> <p>DOI : 10.5120/20206-2463</p>

(28)	<p>Title : Comparative Study of Character Recognition Tools</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) Volume 118 – Number 9, May 2015</p> <p>Authors : Purna Vithalani, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80886-78-2</p> <p>DOI : 10.5120/20774-3274</p>
(29)	<p>Title : A Phonetic Study for Constructing a Database of Gujarati Characters for Speech Synthesis of Gujarati text</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) Volume 117 – Number 19, May 2015</p> <p>Authors : JJ Kothari, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80886-63-5</p> <p>DOI : 10.5120/20660-3311</p>
(30)	<p>Title : Structural and Statistical Feature Extraction Methods for Character and Digit Recognition</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) Volume 120 – Number 24, June - 2015</p> <p>Authors : Purna Vithalani, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80887-63-9</p> <p>DOI : 10.5120/21413-4451</p>
(31)	<p>Title : Restructuring robots.txt for better Information Retrieval</p> <p>Journal name : International Journal of Computer Applications (0975 – 8887) Volume 120 – Number 9, June - 2015</p> <p>Authors : Bhavin M Jasani, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80887-48-1</p> <p>DOI : 0.5120/21258-4115</p>
(32)	<p>Title : Designing, development and implementation of Text to Speech algorithm for Gujarati text using concatenative methodology</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 9, September 2015 (2250-3153)</p> <p>Authors : JJ Kothari, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(33)	<p>Title : Comparing Linear Search and Binary Search Algorithm to Search an Element from a Linear List Implemented through Static Array Dynamic Array and Linked List (July - 2015)</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 121– No.3, July 2015</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80887-79-5</p> <p>DOI : 10.5120/21519-4495</p>
(34)	<p>Title : Enhancement of Online Computerized Examination by Incorporating Artificial Intelligence to One Word Answer Questions Along with Multiple Choice Questions</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 132– No.17, December 2015</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80890-62-5</p> <p>DOI : 10.5120/ijca2015907705</p>

(35)	<p>Title : Construction of Semantic Map of Homophones for Achieving Desired Performance for Searching Homophones for a Given English Word from a Large Database English Words</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 132– No.16, December 2015</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80890-61-8</p> <p>DOI : 10.5120/ijca2015907702</p>
(36)	<p>Title : Designing and development of teacher module for online computerized examination having one word answer questions and validating the answer by use of phonetic algorithm</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 12, December 2015 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(37)	<p>Title : Analysis, Implementation, Comparison and Evaluation of different Logical Techniques of Solving the Same Computing Problem</p> <p>Journal name : International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 134– No.16, January 2016</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISBN : 973-93-80890-98-2</p> <p>DOI : 10.5120/ijca2016908217</p>
(38)	<p>Title : Designing and Implementation of Neural Network Architecture Using Phonetic Identification Algorithms for Obtaining Performance Improvement of Recognizing English Homophone Words</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 9, September - 2015 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(39)	<p>Title : Improvement of searching process Homophone family words for a given English word from the constructed semantic network map of homophones</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 5, Issue 12, December - 2015 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(40)	<p>Title : Implementation of Neural Network Approach Integrated With Phonetic Identification Algorithms for Correcting and Suggesting English Spelled Word</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 6, Issue 1, January - 2016 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>

(41)	<p>Title : Analysis Of Different Techniques, Applying Concept And Implementation Of Technology To Build Environment Friendly Green University</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 6, Issue 3, March - 2016 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
(42)	<p>Title : Analysis Of Different Examination Patterns Having Question Answer Formulation, Evaluation Techniques And Comparison Of MCQ Type With One Word Answer For Automated Online Examination</p> <p>Journal name : International Journal of Scientific and Research Publications, Volume 6, Issue 3, March - 2016 (2250-3153)</p> <p>Authors : Vimal Parmar, Dr. CK Kumbharana</p> <p>ISSN : 2250-3153</p>
National journal	
2010-2011	
(1)	<p>Title : Proxy server optimization: web usage data mining approach (Pg 127)</p> <p>Journal name : Journal of Science volume – 1. Published by Commissionerate of Higher Education Knowledge Consortium of Gujarat, University Granth Nirman Board, Govt. of Gujarat</p> <p>Author(s) : Nayan V Jobanputra, Dr CK Kumbharana</p>

❖ Research paper publications in seminar / conference	
No.	Details
State/regional level	
1999-2000	
(1)	Title : Outline of curriculum design Host name : Department of Computer Science, Saurashtra University, Rajkot, during 24/25/01/1999 Author(s) : PV Jobanputra, CK Kumbharana, KH Atkotia
(2)	Title : InfoTech threaded Commerce Education Host name : PDM College, Rajkot, during 29/30/01/2000 Author(s) : NN Jani, CK Kumbharana
(3)	Title : Futuristic database in digital economy Environment Host name : A K Doshi Mahila College, Jamnagar, during 06/02/2000 Author(s) : Dr NN Jani, CK Kumbharana
(4)	Title : Computer sahit adhyayan sanrachna ane asarkarakta Host name : Sikshan sashtra Bhavan, Saurashtra University, Rajkot during 28-29-30/03/2000. Author(s) : Leena kariya, CK Kumbharana, Anil Ambasana
2003-2004	
(5)	Title : Utilization of Ms PowerPoint Presentation for Teaching about Multi colored Fins to Kids Host name : Organized by XVIII Gujarat Science Congress at Saurashtra University, Rajkot during 13-03-2004 Author(s) : CK Kumbharana, Dr. Anil Ambasana
National level	
2000-2001	
(1)	Title : Multimodel Bio-Metric System for identifying individual's Identify Host name : Department of Computer Science, & Department of Statistic during 24-25-26/11/2001 Author(s) : CK Kumbharana, Dr NN Jani
(2)	Title : 10 Gigabit Ethernet & applications Host name : Department of Computer Science, & Department of Statistic during 24-25-26/11/2001 Author(s) : AM Gosai, CK Kumbharana
2001-2002	
(3)	Title : Contribution of Speech Processing Technology in E-Dialogue system Host name : Department of Computer Science and Amogsiddhi Education society, Sangli during 23-24-25/03/2002 Author(s) : CK Kumbharana, Dr NN Jani Achievement : Secured first rank in the paper competition
2003-2004	
(4)	Title : WAP – The NET going wireless Host name : Department of Computer Science, Saurashtra University Rajkot during 11,12,13-07-2003 Author(s) : CK Kumbharana, Dr NN Jani, AM Gonsai

(5)	Title : Performance tuned network management Host name : Department of Computer Science, Saurashtra University Rajkot during 11,12,13-07-2003 Author(s) : AM Gonsai, Dr NN Jani, CK Kumbharana
(6)	Title : Speaker dependent Vs Speaker independent – a comparative study in speech processing Host name : Department of Computer Science, Saurashtra University, Rajkot during 25,26-02-2004 Author(s) : CK Kumbharana, NN Jani
2004-2005	
(7)	Title : OOP and real life – A comparative thought Host name : National conference on Computer Science and Informatics (NCCSI-2005) organized by Dept of computer science, St. Joseph's College (Autonomus) Tiruchirapalli during 18,19-02-2005. Author(s) : CK Kumbharana, AM Gonsai, NN Jani
2015-2016	
(8)	Title : Host name : National Seminar jointly organized by IQAC, Saurashtra University, Rajkot and Siksha Sanskriti Utthan Nyas, New Delhi on Education Commissions recommendations and its executions in independent BHARAT during 18-06-2015. Author(s) : Vimal Parmar, Dr. CK Kumbharana
International level	
2003-2004	
(1)	Title : Speech Dictation : Speech Processing in Education Host name : Department of Education, Saurashtra University, Rajkot during 10,11 & 12-01-2004 Author(s) : CK Kumbharana, Dr AD Ambasana, Dr NN Jani
2004-2005	
(2)	Title : “Network Traffic Monitoring & Performance Tuning Through Open Source Tools – A Comparative Study Host name : ICET 2004 (International Conference on emerging Technology) Organized by Kalinga Institute of “Industrial Technology, Bhuvneshwar during 22-24 Dec. 2004. Author(s) : AM Gonsai, NN Jani & CK Kumbharana
2005-2006	
(3)	Title : Feature extraction modeling setup for automatic speech recognition Host name : MERG05 International conference on current trends of information technology (Pre conference symposium & in international conference during 04,05,06-march-2005) during 01,02,03-Oct-2005 Author(s) : CK Kumbharana, NN Jani Achievement : Stood first in the paper competition (pre conference)

(4)	Title : Online test project Host name : MERG05 International conference on current trends of information technology (Pre conference symposium) during 04,05,06-march-2005 (Final conference was during 1,2,3-Oct-2005) Author(s) : Umesh chauhan, Tanna Haripriys, Kothari Astha and CK Kumbharana Achievement : Stood second in the competition (Pre conference symposium)
(5)	Title : Model design of OCX with its working pattern Host name : MERG05 International conference on current trends of information technology during 01,02,03-Oct-2005 Author(s) : Umesh chauhan, Tanna Haripriya, Astha Kothari and CK Kumbharana
(6)	Title : Paper on Computerized Software on Scoring and Analyzing Test Item Responses Host name : EDUCON 2005 international conference on GATS & Education held at Department of education & community service, Punjabi university, Patiala, Punjab during 28,29,30-December 2005 Author(s) : CK Kumbharana & Dr AD Ambasana
(7)	Title : Attitude Towards Professionalism Of University Teachers Host name : EDUCON 2005 international conference on GATS & Education held at Department of education & community service, Punjabi university, Patiala, Punjab during 28,29,30-December 2005 Author(s) : CK Kumbharana & Dr AD Ambasana
2006-2007	
(8)	Title : Word Processing: A basic skill for teachers Host name : International National Conference on Innovative Practicum in teacher education held at Dev Samaj College of Education, Chandigarh. During 14,15,16-12-2006 Author(s) : CK Kumbharana, Dr Anil Ambasana
2014-2015	
(9)	Title : Determining the character replacement rules and implementing them for phonetic identification of given words to identify similar pronunciation words Host name : 1 st international conference on Futuristic Trends in Computational analysis and knowledge management held at Amity University, Greater Noida Campus, Delhi during 25,26, 27 February 2015 Author(s) : Vimal Parmar, Dr. CK Kumbharana Publication : IEEE conference publications Page 272-277 Site: http://ieeexplore.ieee.org/ DOI : 10.1109/ABLAZE.2015.7155010

❖ Books publications	
No.	Details
(1)	<p>Title : Exploring Windows Environments (Publishjed by Saurashtra University with UGC unassigned publication grant) (1998)</p> <p>Author(s) : CK Kumbharana, Dr NN Jani, SR Dwivedi</p>
(2)	<p>Title : Networking Information Technologies (Publishjed by Saurashtra University with UGC unassigned publication grant) (1999 1st edition, 2nd edition 2001)</p> <p>Author(s) : Dr. N N Jani, C K Kumbharana</p>
(3)	<p>Title : Emerging Information Technologies (Publishjed by Saurashtra University with UGC unassigned publication grant) (2000)</p> <p>Author(s) : Dr. N N Jani, C K Kumbharana</p>
(4)	<p>Title : Computer Oriented Numerical Methods (CONM) – A Practical approach using c. (Published by Saurashtra University, Rajkot) (2003-2004)</p> <p>Author(s) : CK Kumbharana, Dr. NN Jani</p>
(5)	<p>Title : Mathematical Fundamentals and Graph Theory (Published by Saurashtra University with UGC unassigned publication grant) (2005-2006)</p> <p>Author(s) : CK Kumbharana, Dr NN Jani</p>
(6)	<p>Title : C++ An Object Oriented Programming Language (Published by Nirav prakashan) (2011-2012)</p> <p>Author(s) : Dr. CK Kumbharana, Sheetal C Rakangor</p> <p>ISBN No : 978-93-81060-84-1</p>
(7)	<p>Title : Spark – published by UGC Academic Staff College, Saurashtra University, Rajkot (2011-2012) (It is a contributory book published by the UGC, Academic Staff College, Edited by Dr. CK Kumbharana)</p> <p>Editor : Dr. CK Kumbharana</p> <p>ISBN No : 978-81-923069-3-3</p>

❖ Chapter published in book	
No.	Details
2011-2012	
(1)	<p>Chapter : Spreadsheet fundamentals and analyzing the data in spreadsheet</p> <p>Title : Spark – published by UGC Academic Staff College, Saurashtra University, Rajkot (2011-2012) (It is a contributory book published by the UGC, Academic Staff College, Edited by Dr. CK Kumbharana)</p> <p>Editor : Dr. CK Kumbharana</p> <p>ISBN No : 978-81-923069-3-3</p>
(2)	<p>Chapter : An intelligent harm full/protecting program – virus / anti virus.</p> <p>Title : “Professional development programme for teachers on PC hardware & future technology, reading material published shed by UGC Academic Staff College, Saurashtra University, Rajkot (2011-2012) (It is a contributory book published by the UGC, Academic Staff College)</p>
2014-2015	
(3)	<p>Chapter : ICT – A learning perspective from a learner (student) point.</p> <p>Title : i-Learning, (Special Summer School – 2014, thrust area ICT based morden way of learning and teaching)reading material published by UGC Academic Staff College, Saurashtra University, Rajkot (2014-2015) (It is a contributory book published by the UGC, Academic Staff College)</p> <p>ISBN no. : 978 93 83977 13</p>

❖ Articles	
No.	Details
(1)	<p>Title : Excel – a spreadsheet Package Published by :</p> <p>Magazine : Department of Computer Science& Department of Education Exploring Windows Environments</p> <p>Author(s) : CK Kumbharana</p>
(2)	<p>Title : RDBMS and Its Applications</p> <p>Magazine : Proceeding in 5th state level seminar on “Emerging trends and applications in information technology By HJ Doshi Info. Tech. Inst</p> <p>Author(s) : CK Kumbharana</p>

❖ Attendance in Seminar	
No.	Name and place
State/Regional level	
1998-1999	
(1)	State level seminar on “curriculum reform of computer courses” organized by Department of Computer Science during 24-25/01/1999
(2)	UGC sponsored seminar on “ Use of automation tools & Internet in Computer Science Education”, organized by Department of Computer Science, Gujarat Vidhyapith Ahmedabad, during 22-24-/03/1999
1999-2000	
(3)	A Seminar on “ Internet Technology and harnessing power of www.”, organized by M P Shah Commerce college, Surendranagar during 08-/09/1999
(4)	UGC sponsored state level Seminar on “Information Technology and E-commerce”, organized by A K Doshi Mahila College, Jamnagar during 06-02/2000
(5)	State level seminar on “ sikshak prasikshan” Education Department Saurashtra University with help of UGC unassigned grant & Dr. H G Desai Memorial Education Trust, during 28-29-30/03/2000.
2003-2004	
(6)	Attended XVIII Gujarat Science Congress at Saurashtra University, Rajkot on March 13, 2004
2004-2005	
(7)	Attended seminar on “Emerging trends in advanced communication technology” on the eve of communication day 17-05-2004 at A v Parekh Technical Institute, Rajkot.
(8)	One-day state level seminar on “Supercomputing” Organized by Department of Computer Science, Patan University, Patan during 08-01-2005.
National level	
2001-2002	
(1)	National level seminar and Project/Design/Research competition - 2002 Organized by Department of Computer Science, Saurashtra University, Rajkot & Amogsiddhi education society, Sangli during (23,24,25-03-2002)
2002-2003	
(2)	National level seminar on “Innovations in Information system for rural development” organized by CSI V.V. Nagar Chapter division – 6 and GH Patel Post Graduate Dept of Computer Science and Technology, S.P. University, V V Nagar, Anand during (14,15-02-2003)
2003-2004	
(3)	National level seminar on “Emerging Technology & Application – 2003 (ETA – 2003)” organized by Department of Computer Science, Saurashtra University, Rajkot during 11,12,13 – 07 – 2003.
(4)	National level seminar on “Emerging Technologies and Application – 2004 (ETA – 2004)” organized by Department of Computer Science, Saurashtra University, Rajkot during 25,26 – 02 – 2004.
2004-2005	

(5)	Attended 92 nd Indian Science Congress at Nirma University, Ahmedabad during 3,4,5,6,7-01-2005..
(6)	Attended national seminar on Achieving and Maintaining Quality in Higher Education in India : Issues and Approaches, Organised by Internal Quality Assurance Cell (IQAC), Saurashtra University, Rajkot and sponsored by National Assessment and Accreditation council (NAAC) during 18,19,20-march-2005. Worked as a reporters.
2010-2011	
(7)	3 rd Science conclave 2010 – A congregations of Nobel Lectures (Science conclave 2010) at IIT Allhabad December – 2010.
2015-2016	
(8)	National Seminar jointly organized by IQAC, Saurashtra University, Rajkot and Siksha Sanskriti Utthan Nyas, New Delhi on Education Commissions recommendations and its executions in independent BHARAT during 18-06-2015.

❖ Attendance in Conference	
No.	Name and place
State/regional level	
1999-2000	
(1)	An UGC sponsored conference on “Strategies of comm.. edu with reference to modern ind. Development & recent in marketing in Gujarat” organized by P D Malaviya college, Rajkot on date 29,30-01-2000.
National level	
2001-2002	
(1)	The 4 th national conference of Indian Society of Statistics, Computer and its application, jointly organized by dept of statistics and dept of computer science, Saurashtra university, Rajkot on date 24.26-11-2001.
2013-2014	
(2)	Attended the conference on “Divine knowledge for golden age” organized by Rajyog education and research foundation (Education wing) & Prajapati Brahma Kumari Ishwariya Vishwa Vidyalaya at world head quarters Gyan sarovar Mount Abu on 31-05-2013 to 04-06-2013.
Inter national level	
2003-2004	
(1)	The 17 th Annual conference of All India Association for Educational Research (AIAER) as International conference in “Fourth Wave Education” held at Department of Education, Saurashtra University, Rajkot on date 10,11 & 12-01-2004.
2004-2005	
(2)	12 th International Conference on Advanced Computing and Communication – 2004 (ADCOM-2004) held during 15,16,17,18-12-2004 at Nirma University, Ahmedabad.
(3)	Attended MERG05 as international conference on current trends of information technology (Pre conference symposium) on 4,5,6-March-2005. (Presented paper (stood first) and paper on project (Stood second))
2005-2006	
(4)	Attended MERG05 as international conference on current trends of information technology on 1,2,3-Oct-2005.(Presented two paper and paper on project (stood second)
(5)	Attended EDUCON 2005 as international conference on GATS and Education on 28,29,30-Dec-2005 (Presented two papers) at Department of Education and C.S., Ounjabi University, Patiala, Punjab in collaboration with All India Association of Educational Research (AIAER)
2006-2007	
(6)	Attended international conference on “innovative practicum in teacher education” on 14,15,16-12-2006 at Dev Samaj College of Education, Chandigarh. (Chaired the one session as an expert in paper presentation)
2012-2013	
(7)	Attended international conference for academic institutions 2013 (ICAI) on 9, 10- Jan-2013 at PDPU organized by Government of Gujarat as part of vibrant Gujarat Summit 2013.
2013-2014	

(8)	Attended international conference on “Emerging trends in engineering and applied science” on 27,28-12-2013 at Rajasthan college of engineering for women, Jaipur. (worked as keynote speaker)
(9)	Attended international conference for National Education summit – 2014 on 10,11-Jan-2014 at Mahatma PDPU organized by Government of Gujarat as part of vibrant Gujarat 2014.
2014-2015	
(10)	Attended international conference for on Futuristic trends in Computational Analysis and Knowledge Management at Amity University, greater Noida Campus, Delhi during 25-27 February 2015.

❖ Attendance in Workshop	
No.	Name and place
State/regional level	
1996-1997	
(1)	Workshop on “Reformation of Computer Course” conducted at PDM College, Rajkot. On 05/04/1996
1999-2000	
(2)	Workshop on “Workshop on “Network & Web Development” conducted at Saurashtra University, Rajkot. On 01-02/05/1999.
2002-2003	
(3)	Workshop on “space and geoinformatics application” Organized by Indian Society of Geometric Ahmedabad Chapter and VVP Engineering college, Rajkot on 19/10/2002.
2003-2004	
(4)	Workshop on “effective implementation of revised syllabus – curriculum & re – engineering the education process for master degree programmes” organized by Department of Computer Science, Saurashtra University, Rajkot on 23-11-2003.
2005-2006	
(5)	Three days workshop on “Open source development tools and Linux platform” organized by Department of Computer Science and IBM (India) Bangalore, at dept of computer science, Saurashtra University, Rajkot during 25, 26 & 27 October 2005.
(6)	One day workshop on “Matlab” organized by Dept of Computer Science, Sau Uni, Rajkot during 29 th May 2006
2006-2007	
(7)	One day workshop on Use of Math/Stat Software for Data Analysis in Social science, Organized by Department of Computer Science, Saurashtra University, Rajkot during 16 th March 2007.
(8)	Two days workshop on “Network Management using IBM Tivoli” Organized by Department of Computer science and IBM India Pvt. Ltd. New Delhi during 30, 31 th March 2007
(9)	Three days workshop on “Embedded system using 8051/ARM microcontroller organized by Dept of Computer science, Saurashtra University and SPJ systems, Pune during 24-26 August 2007.
2009-2010	
(10)	One day workshop on “Advanced developer technologies” Organized by Microsoft corporation and Gujarat Informatics Limited on 17 th April 2009.
(11)	Two week ISTE workshop on Effective Teaching/Learning of Computer Programming under the national mission of Education through ICT conducted by IIT Bombay at NIRMA Remote Center during 14 th to 24 th December 2009.
2012-2013	
(12)	One day workshop on “Assessment of Accreditation by NAAC” organized by IQAC & UGC: ASC, Saurashtra University, Rajkot on 21-01-2013.
National level	
2005-2006	

(1)	National workshop on Nano technology: Opportunities & Challenges”. Jointly organized by Saurashtra University and Gujarat council of Science and Technology (GUJCOST), Gandhinagar during 17-October-2005.
2006-2007	
(2)	National workshop on Data warehouse & Data Mining jointly organized by dept of computer science, Dept of Statistics, Sau Uni and Indian Society of Statistics, computer and Application, New Delhi during 23-04-2006.
2013-2014	
(3)	National workshop on “Emerging trends in information technology in university management” joint organized by PDPM Indian Institute of Information Technology and Manufacturing Jabalpur and Association of Indian Universities, New Delhi (AIU) during 09-09-2013 to 13-09-2013.
Inter national level	
2005-2006	
(1)	NLP workshop on developing Language Resource for Machine Translation (LRMT) Organized by International Institute of Information Technology (IIIT), Hyderabad at Language Technology Research Center. During 17-06-2002 to 06-07-2002.

❖ Contribution in curriculum development	
No.	Details
(1)	Worked as a member in development for an optional subject on computer for F.Y, S.Y. and T.Y. B.Com course under the instruction of Saurashtra University.
(2)	Worked as a member in development for the subject of MCA of Saurashtra University.
(3)	Worked as a member in development for the subject of MCA of Bhavnagar University.
(4)	Worked as a member in development for the subject of M. Sc. (IT&CA) of Saurashtra University.
(5)	Worked as a member in development for the subject of PGDCA of Somnath Sanskrit University.
(6)	Worked as a member in development for the subject of MCA of Bhavnagar University (2016).
(7)	Worked as a member in development for the subject of MCA of Saurashtra University (2016).

❖ Radio talk	
No.	Details
2009-2010	
(1)	Title : Computer Science Abhyas nu aajna samayama mahatva Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 19-05-2009 (06:15 PM)
(2)	Title : Speech processing ane tenu Mahatav Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 22-09-2009 (06:15 PM)
(3)	Title : Computer Khetra vividh abhyashkramo Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 24-08-2010 (06:15 PM)
(4)	Title : MCA no abhyash kram mari drashtiye Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 29-03-2011 (06:15 PM)
(5)	Title : Mahiti ekatrikaran mate internet no upyog Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 04-10-2011 (06:30 PM)
(6)	Title : Computer Shikshan Aajna Samay ni jaruriyat Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 25-01-2012 (06:30 PM)
(7)	Title : Computer Shikshan na vyavasayik abhyaskarmo Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 2012(06:30 PM)
(8)	Title : Computer Science na vividh abhyaskarmo Radio name : Prasar Bharati, Broadcasting corporation of India, all India Radio (Talk/short story Branch) Broadcast date : 09-04-2013

❖ Expert lecture			
No.	Topic	Place	Date
2013-2014			
(1)	Advanced application in word processing	“SANDHAN”, In Knowledge consortium of Gujarat (An initiative of Gujarat Government) at BISEG, Gandhinagar	04-10-2013
(2)	Application using word processing	ASC, Vallabh vidya nagar	20-12-2013
(3)	Architectural design of computerized system	ASC, Vallabh vidya nagar	20-12-2013
(4)	Computer applications	Ph.D. course work – 2014 in Electronics department	08-11-2013, 22-11-2013, 25-11-2013
(5)	Key note speaker , latest trends in IT	National conference on emerging trends in information technology. Organized by Department of Computer Science, MDS University, Ajmer	14-03-2014
(6)	Event handling in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	03-03-2014
(7)	MVC architecture and swing applications in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	03-03-2014
(8)	Database connectivity fundamentals in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	04-03-2014
(9)	Database connectivity Applications in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	04-03-2014
(10)	RMI fundamentals in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	05-03-2014
(11)	RMI Application in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	05-03-2014
(12)	Socket programming fundamentals in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	06-03-2014

(13)	Socket programming applications in Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	06-03-2014
(14)	Application development using Java	STTP on Advanced Java sponsored by UGC, organized by Dept of Comp Sci, Sau Uni, Rajkot	08-03-2014
(15)	Spreadsheet applications	Interaction program for researchers, organized by ASC, Rajkot	22-01-2015
(16)	Power point presentation	Interaction program for researchers, organized by ASC, Rajkot	23-01-2015
(17)	Word processing fundamentals	Refresher course 206, ASC, Sau uni rajkot	11-02-2015
(18)	Word processing applications	Refresher course 206, ASC, Sau uni rajkot	12-02-2015
(19)	Skills to achieve excellence in teaching E.Evaluation	Refresher course 208, ASC, Sau uni rajkot	16-03-2015
(20)	Word processing fundamentals	Refresher course 207, ASC, Sau uni rajkot	17-03-2015
(21)	Word processing applications	Refresher course 207, ASC, Sau uni rajkot	18-03-2015
(22)	Project development process	Sarvodaya BCA college	27-06-2015
(23)	Word processing fundamentals	Sandhan	
(24)	Applications of word processing	Sandhan	
(25)	Analysis and designing a project	Morbi	
(26)	Computer Application	Ph.D. Course work, Department of Law, Saurashtra University, Rajkot	29-10-2015
(27)	Cloud computing	STTP on "CHK 'N' MAT" Computer Engineering VVP Engineering college, Rajkot	14-12-2015
(28)	RMI fundamentals and its applications	Marwadi Institute, Rajkot	
(29)	Virtual function in C++	Marwadi Institute, Rajkot	27-09-2018

❖ Professional Membership	
No.	Details
(1)	Computer Society of India (Life member) Membership no : 10459
(2)	The Indian Science Congress Association (ISCA)
(3)	IETE – Member ship no. M – 218523 (Life member)

❖ Attendance Professional Training / STTP	
No.	Details
(1)	Title : DCNI D – link certified network integrator: Host name : For networking of D – link products at D – link factory. Goa during 04-07/12/2001
(2)	Title : One day program on “D-Link netvision-2003 – towards a networked world” Host name : organized by D-Link India Ltd. (Ahmedabad)
(3)	Title : Microsoft India – Academic Developer Program certified “Faculty Training program on .NET technology” Host name : Department of Computer Science, Saurashtra University, Rajkot during 21-Jun-2004 to 25-Jun-2004.
(4)	Title : DB-2 Fundamental course Host name : Organized by Department of Computer Science, Rajkot jointly with IBM (India). Training is given by synergetic, Bangalore By Mr. Santosh during 17, 18 & 19-01-2005.
(5)	Title : Open source development tools and Linux platform Host name : Organized by Department of Computer Science, Saurashtra University, Rajkot on 25,26,27 October 2005.
(6)	Title : A Sun educational service course in “Developing Applications for the Java EE Platform FJ 310 EE5” Host name : Sun Microsystems during 27-07-2008 to 01-08-2008 at AITS Rajkot.
2012-2013	
(7)	Title : UGC sponsored term course for research guide on new frontiers in research Host name : Academic staff college, Saurashtra University, Rajkot, during 21-01-2013 to 27-01-2013
2014-2015	
(8)	Title : Accountability and responsiveness in Scientific Organizations Host name : Organized by Government of Indian, Department of Science and technology, managed by Academy of Human Excellence during 16-12-2014 to 20-12-2014

❖ Computer Application work	
No.	Details
(1)	Developed and implemented the information system for Academic Staff College.
(2)	Developed admission system for MCA & PGDCA .
(3)	Handled computer related activities of centralized B.Ed. admission of Saurashtra University .
(4)	Worked in Examination Panel Setting System (EPSS) of Saurashtra University as and when required.
(5)	Given support in examination result processing work as and when needed.
(6)	Guided the students of DCS, MCA (IGNOU) for their project work.
(7)	Provided programming and operational support in many research projects.
(8)	Provided support in preparation of synopsis for recruitment process as and when required.
(9)	Maintaining Computerized Network of Department of Computer Science, Saurashtra University – Rajkot
(10)	Developed and implemented Objective test result preparation system for the teacher. (Proposed by Dr AD Ambasana, Education dept, Saurashtra University, Rajkot)
(11)	Developed and implemented “Teacher’s feedback system” for the dept of computer science and all other department of the Saurashtra University. (Team members: CK Kumbharana, Meghana Patel, Ruchit Patel & Haldar Sumona. Implemented team: CK Kumbharana, Shyamal Tanna, Kirti Makadia, Ritesh Rachchh, Pooja Kansara, Chirag Loliyana
(12)	Designed and developed “on line test” system for the internal examination for the MCA students. (Team Member: CK Kumbharana, Umesh Chauhan, HariPriya Tanna, Ashtha Kothari. Implemented team : CK Kumbharana)
(13)	Designed, developed, implemented then M.Ed. Admission computerized system for the Department of Education, Saurashtra University, Rajkot During May-2007. (CK Kumbharana, Kirti Makadia)
(14)	Designed, developed, implemented then M.Sc. It. Admission computerized system for the Department of Computer Science, Saurashtra University, Rajkot During May-2007. (CK Kumbharana, Kirti Makadia)
(15)	Designed and developed a various required software for the GCET-2007 for MCA and MBA admission. (Team member: CK Kumbharana, Kirti Makadia)
(16)	Designed, developed, implemented the on line objective test for the M.Sc (IT & CA) for the Saurashtra University and taken the admission test for the msc (it & ca) – 2009 batch. Approximately 1300 students appeared in the online test. The test was conducted at Department of Computer Science. (Team member: Dr. CK Kumbharana, Sheetal Rakangor)
(17)	Designed, developed, implemented the on line admission (counseling) of M.Sc (IT & CA) for the Saurashtra University(Team member: Dr. CK Kumbharana, Sheetal Rakangor)
(18)	Designed, developed, implemented the on line admission test for all M.Sc. course of the Saurashtra University.

❖ Other teaching work	
No.	Details
(1)	Worked as a resource person in U.G.C. sponsored orientation programmes and refresher programmes run by Academic Staff College, Saurashtra University, Rajkot.
(2)	Worked as a visiting faculty in MBA programme run by Saurashtra University.
(3)	Worked as a faculty member in the M. Com. (Computer Sci.) course run by Commerce Department, Saurashtra University, Rajkot.
(4)	Worked as a faculty member in the professional training programmes run by Computer Centre, Saurashtra University, Rajkot.
(5)	Invited for professional lectures by Computer Society of India, Rajkot Chapter.
(6)	Involved in examination work (paper setting, project viva, etc.) in many examinations.
(7)	Worked as a coordinator (sanchalak) in TYBA, M.Phil and M.Sc. March – 2004 examination. . All computer courses of Saurashtra University Nov-2005 and April-2006 (Performed as receiving as papers and handled central assessment of the papers.)
(8)	Appointed as a regular counselor in Indira Gandhi Open University (IGNOU) at Rajkot center.
(9)	Appointed as VC nominee in examination committee with ref to 47-A in computer science for both term of the year 2014.
(10)	Appointed as VC nominee in examination committee with ref to 47-A in bio informatic for both term of the year 2014.
(11)	Appointed as a project evaluator for MCA IGNOU in Jan-2015.

❖ Training Organized	
No.	Details
(1)	Organized the training and worked as resource person for the staff of Computer Centre, Saurashtra University from date 14-09-2004 to 16-10-2004 (tentative 25 hours) on Visual Basic fundamentals, demonstration of the different system and utility and usages of Crystal report.
(2)	Worked as resource person in two days training program for the principals of the different colleges, organized by academic staff college, Saurashtra University, Rajkot.
(3)	Worked as a coordinator and resource person in UGC sponsored “resource person development workshop” Organized by Academic Staff College, Saurashtra University, Rajkot during 24,25,26-sept-2005.
(4)	Organized and work as a coordinator in short term training program (STTP), organized by department of computer science, Saurashtra University, sponsored by UGC on <i>advanced C++</i> during 28, 29, 30 -01-2010.
(5)	Organized and work as a coordinator in short term training program (STTP), organized by department of computer science, Saurashtra University, sponsored by UGC on <i>core java</i> during 28,29,30 – 01-2011.
(6)	Worked as a coordinator in national level one day seminar on “Development of Web application using Java and .NET”. Organized by Department of Computer science on 25-03-2012.
(7)	Worked as a coordinator in one day workshop on “Pre-interview preparation” organized by CCDC & CCC (UGC) initiated by Department of Computer Science & Department of Electronics, Saurashtra University, Rajkot on 19-09-2013.
(8)	Organized and work as a coordinator in short term training program (STTP), organized by department of computer science, Saurashtra University, sponsored by UGC on <i>advanced java</i> during 03-03-2014 to 08-03-2014.

❖ Editorship of Journals	
No.	Details
(1)	Member of editorial board – International Journal of Emerging Technology and Applications in engineering and Technology science (IJ-ETA-ETS) ISBN – 0974-3588
(2)	Member of editorial board – International Journal of Computer Applications in Engineering, Technology and Science (IJ-CA-ETS) ISBN – 1997-6364
(3)	Member of editorial board – “PRAJNA” published by Saradar Patel University, Vallbh Vidya Nagar
(4)	Member of editorial board – “journal of applied science” published by Saurashtra University under the name “vank”
(5)	Member of editorial board – “Journal of engineering and Technology” of Suresh Gyan Vihar University Jaipur.
(6)	Nominated by VC sir as associate editor of VAK (pure and applied Science) The research journal of Saurashtra University - 2017

❖ Administrative work	
No.	Details
(1)	Acted as a member of admission committee for MCA and PGDCA admission.
(2)	Correspondence with different organizations for project work of the students of PGDCA, M. Com. (Computer Sci.) and MCA.
(3)	Assisting for curriculum activities like time table preparation, guest lecture programmes, etc. for students of MCA, PGDCA, M. Com. (Computer Sci.).
(4)	Appointed as a assistant coordinator in Indira Gandhi Open University (IGNOU) for Rajkot Center.
(5)	Appointed as a member of operational committee in Gujarat Common Entrance Test (GCET-2007) for MBA and MCA admission.
(6)	Appointed as a member for the Uyrban Health Society, Rajkot Municipal Corporation, Rajkot. For planning and mapping of the Rajkot city using GIS.
(7)	Appointed as a member of Expert committee by AICTE, Delhi for approval of MCA and MBA course for shree sun shine trust, Rajkot on 13-06-2009.
(8)	Worked as an Observer in the Saurashtra University Senate Election – 2012 at MVM Mahila arts college on 08-04-2012.
(9)	Worked as a scrutinizer in Saurashtra University Senate Election – 2012 during 11,12,13-04-2012
(10)	Appointed as a member in the Saurashtra University Central Admission Board (SUCAB) for the year 2012.
(11)	Appointed as a member in the Saurashtra University Central Admission Board (SUCAB) for the year 2013.
(12)	Appointed as observer for the national eligibility cum entrance test (NEET-UG) 2013 on 05-05-2013.
(13)	Assigned the work to conduct the on line admission test for MSW, MLW, MSc (IT &CA), basic nursing for the year 2013.
(14)	Appointed as a one of the member in IT Advisory Committee, of Saurashtra University, Rajkot.
(15)	Appointed as a one of the member in up gradation of dynamic website of the Saurashtra University, Rajkot under IQAC (20-09-2013).
(16)	Appointed as a chairman in ad hoc computer board for Saurashtra University, Rajkot from 13-01-2014.
(17)	Worked as a coordinator in conducting the elimination test for the post of Assistant cum clerk cum data entry operator for Saurashtra University, Rajkot on 22-06-2014.
(18)	Worked as a coordinator in conducting the elimination test for the post of Computer Assistant, Senior Assistant and Assistant in Academic Staff College, Saurashtra University, Rajkot on 19-06-2011.
(19)	Appointed as a member in the Saurashtra University Central Admission Board (SUCAB) for the year 2014.
(20)	Appointed and worked as an observer for “All India Pre-Medical/Pre-Dental Test” handled by Central board of secondary education (an autonomous organization under the union minister of human resource development, Government of India) At Ahmedabad center during 02,03-05-2015.
(21)	Appointed as a coordinator for the committee to manage the MCA vacant seat admission – 2015.

(22)	Appointed as a coordinator for conducting the CCC examination given by the GAD to the Saurashtra University, Rajkot 2015-2016.
(23)	Appointed as a technical committee member in write of committee of e-west of Saurashtra University, Rajkot – 29-03-2016.
(24)	Conducted the admission test for the department of low, Saurashtra University, Rajkot (21-06-2016)
(25)	Conducted the admission test for the department of mathematics, Saurashtra University, Rajkot (28-06-2016)
(26)	Conducted the admission test for the department of commerce (M.Phil), Saurashtra University, Rajkot (29-06-2016)
(27)	Conducted the admission test for the department of biochemistry, Saurashtra University, Rajkot (30-06-2016)
(28)	Conducted the admission test for the department of physics, Saurashtra University, Rajkot (01-07-2016)
(29)	Conducted the admission test for the department of bioscience, Saurashtra University, Rajkot (04, 05-07-2016)
(30)	Conducted the admission test for the department of chemistry, Saurashtra University, Rajkot (07,08-07-2016)
(31)	Conducted the admission test for the department of Sociology (M.Phil), Saurashtra University, Rajkot (21-07-2016)
(32)	Appointed as an associate coordinators by IQAC for cluster coordinators 21-09-2016
(33)	Appointed by VC sir Saurashtra University, Rajkot as a member of advisory committee for Ph.D. Entrance test 2018.
(34)	Appointed by VC sir Saurashtra University, Rajkot as an observer for Ph.D. Entrance test 2018.
(35)	Appointed by VC sir as one of the member in the draft committee for the NAAC 2019 of Saurashtra University, Rajkot 2018.
(36)	Appointed by VC sir as a chairman/convener to prepare the AQAR for the year 2017-2018 of Saurashtra University, Rajkot
(37)	Appointed by VC sir as a member to check and analyze the software of academic section of Saurashtra University, Rajkot (27-09-2018)
(38)	Appointed as a member of peer team of NAAC for the college Shivajirao S Jondhle College of engineering and technology, asangao, Thane, Maharashtra (05,06-10-2018)

❖ Other work	
No.	Details
(1)	Worked as a Judge in National level seminar & Project/design/research competition 2002 24-26/3/2002 organized by department of computer science and Amoghsiddhi education society, Sangli.
(2)	Worked as an Presiding Officer at 19-Rajkot (Gramya) Assembly seat Booth No. 19/101 A in Assembly Election-2002 held on 12-12-2002
(3)	Taken part in Department of Computer science Sports Club. Cricket Tournament-2003,in February 2003.
(4)	Worked as Judge in UGC sponsored one day State level seminar “IT Excellence – 2004”, organized by Shree Manibhai Virani & Smt. Navalben Virani Science college and Shree Yogi Maharaj Arts & Commerce College Rajkot During 24-02-2004.
(5)	Worked as an Presiding Officer at 26-Jamnagar (Gramya) Assembly seat Booth No. 26/106 in Lokshabha Election-2004 held on 20-04-2004.
(6)	Worked as a Judge in National level symposium “Tech-Utkarsh – 2004” during 27, 28 October – 2004 Organized by Atmiya Institute of Technology and Science, Rajkot.
(7)	Worked as a panel expert for the competition “Fly High with ‘c’ (Debugging/Testing Contest)” SMITE-2006 organized under National Conference on “Intelligent Information Retrieval and Processing” organized by Shrimad Rajchandra Institute of Management and Computer Application, Gopal Vidyanagarm Bardoli during 29-30 April 2006.
(8)	Worked as a Presiding Officer at 15-Wankaner Assembly Booth No. 143 Rangpar in Vidhansabha Election-2007 held on 11-12-2007.
(9)	Worked as an Presiding Officer (PR/00297) at 71-Rajkot (Gramya) Assembly Booth No. 23/71 Mavdi – 5 in Vidhansabha Election-2012 held on 13-12-2012.
(10)	Worked as a judge for paper presentation in IT Range – 2013, state level technical competition at GKCK Bosamiya College, Department of Computer science, Jetpur – 23-02-2013.
(11)	Worked as a subject expert for selection committee of director and assistant professor at Murlidhar group of institute for MCA program on 12-12-2012.
(12)	Worked as a subject expert for selection committee at Kachchh University for MCA and M.Sc. IT program on 09-08-2012.
(13)	Worked as a subject expert for selection committee at TN Rao college for MCA on 14-07-2012.
(14)	Worked as a subject expert for selection committee at Somnath Sanskrit University, Veraval for PGDCA faculty.
(15)	Worked as a subject expert for selection committee at Bhavnagar University for the post of Associate professor on 21-11-2013.
(16)	Worked as a subject expert for selection committee at GKCK Bosamiya college, Jetpur for M.Sc. (IT & CA) faculty 26-07-2013.
(17)	Worked as a subject expert for selection committee at sun sine college, Rajkot for MCA faculty on 06-01-2014.

(18)	Worked as a judge for paper & poster presentation in synergy - 2014, state level technical competition at Marwadi Education Foundation, Rajkot – 18-01-2014.
(19)	Worked as a member in advisory committee in “Science symposium 2014” on recent trends in science and technology organized by Chirst college, Rajkot sponsored by GUJCOST – Gandhinagar on 23-02-2014.
(20)	Worked as a judge for paper & poster presentation in 7 th national level science symposium on the recent trends in science and technology organized by Christ College, Rajkot on 23-02-2014.
(21)	Worked as a subject expert for selection committee at Dr. VR Godhanuya College, Porbandar for M.Sc. (IT & CA) faculty 02-03-2014.
(22)	Worked as a subject expert for selection committee at Shree Amreli leuva Patel Cheritable Trust Sanchalit, shree KP Dholakiya Infotech Mahila College, Amreli.
(23)	Worked as a subject expert for selection committee for director and assistant professor for MCA course at Smt RO Patel women’s MCA college, Morbi on 23-3-2014.
(24)	Worked as a member of selection committee for the post of associate professor for Department of Computer Science, Saurashtra University, Rjako on 09-06-2014.
(25)	Worked as a member of SEBC representative in the interview of Associate professor for physics on 09-06-2014 at Saurashtra University, Rajkot.
(26)	Worked as a member of SEBC representative in the interview of Assistant professor for bioscience on 09-06-2014 at Saurashtra University, Rajkot.
(27)	Worked as a member of SEBC representative in the interview of Assistant professor for physics on 09-06-2014 at Saurashtra University, Rajkot.
(28)	Worked as a member of SEBC representative in the interview of Assistant professor for sociology on 11-06-2014 at Saurashtra University, Rajkot.
(29)	Worked as a member of SEBC representative in the interview of Assistant professor for philosophy on 11-06-2014 at Saurashtra University, Rajkot.
(30)	Worked as a member of SEBC representative in the interview of Assistant professor for law on 12-06-2014 at Saurashtra University, Rajkot.
(31)	Appointed as committee member for NAAC peer team visit in IT committee in May 2014.
(32)	Worked as a resource person in SSS:14 (Special Summer School – A) organized by Academic Staff College, Saurashtra University, Rajkot on 19-06-2014 (15:00 to 18:00)
(33)	Worked as a subject expert for selection committee at Somnath Sanskit University, Veralval for PGDCA faculty on 16-06-2014.
(34)	Appointed as a member in DPC (Doctoral Progress Committee) by GTU.
(35)	Appointed as a VC nominee of Saurashtra University to work as an expert to select principal at Shree amreli jilla leuva patel cheritable trust sanchalit, shri kp dholakiya infotech mahila college, amreli.
(36)	Worked as a subject expert for selection committee for Assi. Prof. and asso. Prof. for M.Sc. IT & CA course at DR. Virambhai Rajabhai Godhaniya college, Porbandar on 02-03-2014.

(37)	Worked as an Presiding Officer at 71- Rajkot (Gramya) Assembly seat Booth No. 167 vajdivad in Lokshabha Election-2014 held on 28-04-2014.
(38)	Worked as a subject expert for selection committee for Ass. Prof in B.SC (IT) in creation BSW college, Rajkot on 01-09-2014.
(39)	Worked as a subject expert for selection committee for academic post in Diu college, Diu on 02-09-2014.
(40)	Appointed as an advisory committee member for nation seminar on future trends in IT, organized by Anand Institute of Information Science, Anand. On 21-03-2015.
(41)	Worked as a subject expert for selection committee for the post of Assistant Professor at Smt RO Patel Women's MCA college, Morbi on 01-03-2015.
(42)	Worked as a subject expert for selection committee for the post of Director at Smt RO Patel Women's MCA college, Morbi on 01-03-2015.
(43)	Worked as a subject expert for selection committee for Ass. Prof in Computer Engineering at VVP engineering college, Rajkot on 17-04-2015.
(44)	Worked as a subject expert for selection committee for Professor in Information Technolgy at VVP engineering college, Rajkot on 17-04-2015.
(45)	Worked as a subject expert for selection committee for principal at Smt RO Patel Women's MCA college, Morbi on 24-05-2015.
(46)	Worked as a subject expert for the Ph.D. synopsis evaluation committee of RK University on 05-08-2015.
(47)	Appointed expert to give an expert opinion for Ph.D. entrance test paper – 2015, Saurashtra University, Rajkot
(48)	Appointed as a member of selection committee for the post of associate professor (CAS) for Department of Computer Science, Saurashtra University, Rjakot on 23-07-2016.
(49)	Appointed as a member of selection committee for the post of associate professor for Department of Computer Science, Saurashtra University, Rjakot on 23-07-2016.
(50)	Appointed as a member of selection committee for the post of professor (CAS) for Department of Computer Science, Saurashtra University, Rjakot on 27-07-2016.
(51)	Appointed as a subject expert of selection committee by VC sir for the post of Assistant professor for Department of Computer Science, Harivandana College, Rajkot on 14-10-2018.
(52)	Appointed as a subject expert of selection committee by VC sir for the post of Assistant professor for Department of Computer Science, wel known college f computer science let. on 16-10-2018.

(Dr. CK Kumbharana)