


Curriculum Vitae

1. Personal Details		
(i)	Name	Dr. ARUN PARAKH
(ii)	Father's Name	PADAM CHAND PARAKH
(iii)	Date of Birth	10th FEB, 1973
(iv)	Address for Communication	6/5, STAFF CAMPUS, SGSITS, Y.N. ROAD, INDORE (MP) 452003
(v)	Permanent Address	6/5, STAFF CAMPUS, SGSITS, Y.N. ROAD, INDORE (MP) 452003
(vi)	Contact Details	09893636547
(viii)	Nationality/Religion	INDIAN



2. Educational Qualifications					
S. No.	Degree	Year	University/Institute	Division	Specialization
01	Ph.D	2016	IIT DELHI		COMPUTER ARCHITECTURE
02	ME	2003	RGPV, BHOPAL/SGSITS, INDORE	FIRST	COMPUTER ENGG.
03	BE	1996	DAVV, INDORE/SGSITS, INDORE	FIRST (HONS.)	ELECTRICAL ENGG
04	DEE	1992	MPBTE, BHOPAL, SVP, INDORE	FIRST (HONS.)	ELECTRICAL ENGG

PhD/M.Tech. Dissertation Title:
ME: EMPLOYEE LEAVE INFORMATION SYSTEM
PHD: PERFORMANCE ESTIMATION AND APPLICATIONS MAPPING ON GPU_s WITH CACHE

Srnr	Name of Post Held	Scale (pay band +grade pay)	Name of the Institution	Period		Mode of Selection (Direct/ Open/ CAS)
				From	To	
1	Associate Professor	35000 AGP Rs.9000/-	SGSITS Indore	22/12/2016	21/12/2019	CAS
2	Assistant Professor (Selection Grade)	15,600-39,100 AGP Rs 8000/-	SGSITS Indore	22/12/2013	21/12/2016	CAS
3	Assistant Professor (Senior Scale)	15,600-39,100 AGP Rs 7000/-	SGSITS Indore	22/12/2008	21/12/2013	CAS
4	Assistant Professor	15,600-39,100 AGP Rs 6000/-	SGSITS Indore	22/12/2003	21/12/2008	Open
5	Lecture (Contract)	8000/-	SGSITS Indore	16/07/2002	21/12/2003	Open

3. Career History and Profile of Work Experience: (TOTAL EXPERIENCE: 23YEARS)	
Present Position Held: ASSOCIATE PROFESSOR	
(a) Academic / Teaching Experience and subjects taught	
(i)	Working as in EED, SGSITS since 2002 (19years) and taught following subjects: <ol style="list-style-type: none"> 1. Operating Systems (2002 - 2015) 2. Microprocessor and Computers (2003-till date) 3. Microprocessor Based System Design (2006 – till date) 4. Embedded Systems Programming (2006 - 2016) 5. Computer Aided Power Electronics Analysis & Design (2002)

	6. Computer Peripherals Interfaces (2003) 7. Internet & Embedded Systems (2003) 8. Electrical Measurement & Measuring Instrument (2007 - 2009) 9. Designing with Microsystems (2003 – till date) 10. Electrical Workshop II (2012 -2014) 11. Basic Electrical & Electronics Engg. (2005) 12. Microprocessor Applications (2007 – till date) 13. Electrical Machine Design (2002) 14. Lab Manuals developed at UG and PG level (2003-till date) 15. Fundamental of Electrical Engineering (2019-) 16. Artificial Neural Network (2019-) 17. Digital Protection of Power System (2019-)			
(b)	Other Academic Experiences and positions/responsibilities held			
	Name of Post Held	Name of the Institution	Period	
			From	To
(i)	WEB DEVELOPER/ SR. INSTRUCTOR	S.I.B.S. INDORE	16/07/2000	20/07/2002
(ii)	SOFTWARE DEVELOPER	RCA, INDORE	01/08/1996	15/07/2000
(c)	Relevant Administrative Experience			
(i)	In-charge/ Member of various committees : <ol style="list-style-type: none"> 1. Academic Council of the Institute; 2016, 2017 2. Board of study of the department 3. Departmental Accreditation committee 4. Time table committee 5. Departmental Purchase committee 6. In-charge of Microprocessor Laboratory 7. In-charge of Software Computing Laboratory 8. Course coordinator of PG Program (DTI) 9. Departmental Networking/ website In-charge 10. OSD in the Institute examination APR-18 , NOV-18, NOV-19, APR-20 11. Convener in Annual functions of the institute 12. Coordinator, TEQIP/KITE, IIT Gandhinagar 13. Editor board, Institute News Letter 14. Physical Stock Verification, 2017 15. UG admission of the institute 2016. 16. MIS/ERP implementation committee 17. Institute Incubation Cell 18. Students Club Committee (Baha, e-Baha, etc) 19. Startup cell (Student Activity), IDEA CONTEST 20. Center for Remote Sensing and Satellite Technology (CRSST) 21. CIDI departmental coordinator, 2018 22. PG Admission committee of Institute 2016, 2019 23. Institute Research group for R&D activities of the Institute 2019-20 24. Accreditation related activities of the institute, 2019-20. 25. Core Committee of SGSITS Incubation Forum, 2020- 26. Online Platform investigation Committee, 2020- 27. PG Coordinator of the institute, 2021- 28. Member of AICTE Team of the institute, 2021- 29. Faculty incharge, NPIU Training Program, 2020 - 30. AICTE-TI Embedded System Design MOOC, 2021- 			

(d)	Other Academic cum Administrative Experiences and Positions Held
(i)	<ol style="list-style-type: none"> 1. Appointed as Presiding Officer in General Election, 2013,2008, 2003 2. Appointed as Presiding Officer in State Assembly Election, 2014,2009 3. Appointed as Presiding Officer in Nagar Prishad Election, MHOW, 2014 4. Appointed as Presiding Officer in Municipal Corporation Election, 2015, 2005 5. Appointed as Presiding Officer in Panchayat Election, 2015, 2005 6. Appointed as Presiding Officer in Krashi Mandi Election, 2005 7. Appointed as Observer in PMT, 2013 8. Appointed as Document verification officer in DTE Counseling 2015, Govt. of MP 9. Appointed as external technical expert for in RAPTC, Indore, 2017, 2018, 2019 10. Deputy Presiding Officer in IGTR (Indo-Germen Tool Room) entrance exam, 2017 11. Member of BOS at RGPV, Bhopal (MP) 12. IT Cell Incharge in Dist. Election Office, Indore during MP Assembly Election 2018 13. IT Cell Incharge in Dist. Election Office, Indore during General Election 2019 14. Nodal Officer of Elect. Engg. for Assessment of Online Courses, NPIU, New Delhi 2019-20

4.	<u>Area of Research Interest:</u>
	Embedded System, Microprocessor Based System, Operating System, Industrial Automation, High Performance Computing, Parallel and Many Core Architectures, IoT, Web Application

5.	<u>Research Experience</u>																												
(a)	Ph.D Guided (Under progress)																												
	<ol style="list-style-type: none"> 1. Deepali Kothari “Development of Real Time wireless co-operative communication for remote devices” RGPV, Bhopal, Co-guide: Dr. Anjana Jain , SGSITS, Indore, 2018- 2. Vineet Mishra “Optimal Operation of Power System”, RGPV , Bhopal, Co-guide: Prof. H.K. Verma, SGSITS, Indore, 2019- 3. Firoz Mohd. “Power System Operation and Control”, RGPV , Bhopal, Co-guide: Prof. H.K. Verma, SGSITS, Indore, 2019- 																												
(b)	<u>P.G. Dissertation Guidance (Under Process) 2021-22</u>																												
1.	Ayush																												
(c)	<u>P.G. Dissertation Guidance (Completed)</u>																												
	<table border="1"> <thead> <tr> <th></th> <th>Year</th> <th>Name of the Candidate</th> <th>Title of the Thesis</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2004</td> <td>Vineet Modi</td> <td>Microprocessor based design of liquid level controller and motor protection system</td> </tr> <tr> <td>2.</td> <td>2005</td> <td>Rajeev Sharma</td> <td>Design and development of Internet based information and communication system</td> </tr> <tr> <td>3.</td> <td>2006</td> <td>Ruchi Shrivastva</td> <td>Resource management system</td> </tr> <tr> <td>4.</td> <td>2006</td> <td>Hemant Amhia</td> <td>Design and development of PC based speed control of induction motor</td> </tr> <tr> <td>5.</td> <td>2007</td> <td>Somvendra Dube</td> <td>Design & implementation of algorithm for DTC scheme of speed control of IM with the application of 8-bit micro-controller (dsc89c420)</td> </tr> <tr> <td>6.</td> <td>2007</td> <td>Sarang Arun Naik</td> <td>Technical evaluation of ISDN and broad band in telecommunication system network</td> </tr> </tbody> </table>		Year	Name of the Candidate	Title of the Thesis	1.	2004	Vineet Modi	Microprocessor based design of liquid level controller and motor protection system	2.	2005	Rajeev Sharma	Design and development of Internet based information and communication system	3.	2006	Ruchi Shrivastva	Resource management system	4.	2006	Hemant Amhia	Design and development of PC based speed control of induction motor	5.	2007	Somvendra Dube	Design & implementation of algorithm for DTC scheme of speed control of IM with the application of 8-bit micro-controller (dsc89c420)	6.	2007	Sarang Arun Naik	Technical evaluation of ISDN and broad band in telecommunication system network
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7.	2008	Mayura Purkar	Novel scheme of performance enhancement of web server
8.	2008	Pankaj Gangle	Implementation of frequency recognition algorithm for audio signal using DSP processor tms320c6713 in real time & simulation with Matlab.
9.	2008	Atul Chouhan	Smart digital energy meter
10.	2008	Avanti Sharma	Automatic Response System using short message service(SMS)
11.	2009	Sidart Ashutosh	Automobile data logger
12.	2009	Ila Awasthi	Mobil and web based instrumentation and automation
13.	2009	Ela Dongre	Enhancement of computing environment using embedded system
14.	2009	Toshi Mandloi	Energy optimization analysis of a program
15.	2013	Suresh Ghode	Prototype of short range wireless communication for industrial process controller.
16.	2013	Jitendra Singh Rajput	Implementation of short range communication service
17.	2013	P. Ram Krishna	Study and modification in solid state signaling system of Indian railways
18.	2013	Abhinav Keshrwani	Design and implementation of computer controlled Fiber Bragg grating Temperature sensor calibration system
19.	2014	Deepesh Jain	Micro-controller based System for Water Quality Monitoring using Electronic Sensors
20.	2014	Vineeta Jharbade	An improved security architecture for cloud data center
21.	2014	Preveen Baghel	Monitor Real Time Data via Bluetooth
22.	2014	Rameshwari Bisen	Hardware Implementation of High Speed Serial Communication Protocol for Point to Point communication
23.	2014	Shivam Jajoria	Study and experimentation on fast tuning control of piezo driver for SCRF cavity
24.	2014	Krishna Kumar	Non invasive optical sensing system and model for parameter estimation of human skin
25.	2015	Hitesh Panda	Analysis & Reduction of Power Super scaler processors
26.	2015	Vishal Gupta	Web Based Real Time Electrical Parameter System
27.	2015	Amit K Singh	Detection Wrong traffic Movement in a One way street
28.	2015	Aneesh Kumar	GSM/ Android application for Pump control in Remote Area
29.	2015	Pratima Shrivastva	Performance Enhancement of Data parallel Applications on GPUs
30.	2016	Akshay Patel	Automobile Tracking and Parameter Monitoring using GPS and GSM
31.	2016	Deepali Kothari	Wireless Application for Agricultural Pump
32.	2016	Prince Tiwari	Automatic Attendance System using Face Detection
33.	2016	Priya Badera	Performance Analysis of Autoclave using ANN
34.	2016	Vipul Jain	Web Application in Automobile Monitoring

35.	2017	Akshay Pratap Singh	Web Application for Wireless Power Monitoring & Controlling Device
36.	2017	Ankita Pendse	Asset Tracking & Home Automation using Speech Recognition
37.	2017	Atul Sharma	An Open Loop Solar Powered Induction Motor Drive System for Pumping Applications
38.	2017	Gunjan Kulkarni	Signature Recognition System with Android Smart Phone using Principal Component Analysis Algorithm (PCA)
39.	2017	Jaishree Agarwal	Back Tracking of Vehicles using GPS & Web application
40.	2017	Sanjay Chaturvedi	Design and Development of an Electrical Power Monitoring System using Wireless Technologies
41.	2017	Yogesh Agarwal	Design & Development of Attendance System using Face Recognition
42.	2017	Vaibhav Sharma	Sensors and Bluetooth Based Smart House
43.	2018	Mayank Jain	Zigbee and Gsm Technology Based Pump Controller Using Android App
44.	2018	Lokesh Sharma	Automatic Power Factor Correction and Load Monitoring
45.	2018	Shivaji Pal	Portable QR Code Generator and Scanner
46.	2018	Mohit Gupta	IoT Based Speed Control Of Three-Phase Induction Motor Using MQTT Protocol
47.	2018	Yogesh Jadon	A Smartphone Application to Stop Signature Forgery Using Principal Component Analysis
48.	2018	Manswae Shukla	Static Voltage Stabilizer Using SPWM Method
49.	2018	Prkhar Jain	A Statistical Analysis of Automatic AAC Block Manufacturing Plant Using Siemens PLC S7-300
50.	2019	Jigyasa Singhai	IoT Based Real Time Electrical Parameter Monitoring & Control
51.	1019	Falguni Gupta	Controller for Wind Turbine
52.	2019	Shubhanshi Tiwari	Modeling of ANN Based DVR for Voltage SAG Mitigation of Induction Motor
53.	2020	Priya Vijayvarigiya	IoT application to speed control of IM
54.	2020	Niteeka Sengar	Smartphone application to control Agriculture Pump
55.	2021	Rachna Pandey	Artificial Intelligent Based Optimal Placement of Phasor Measurement Unit (PMU)
(d)	<u>Research Projects</u>		
(i)	Developed High Performance Computing Laboratory in collaboration with Indian Institute of Technology Delhi (IITD), New Delhi with equipments of cost Rs. 5.5 Lakh, May, 2017		
(e)	<u>Technical Papers Publications</u>		
(i)	<u>International and National Journals</u>		
1.	Jitendra Singh Rajput Arun Parakh Suresh Ghode, Implementation of short range communication service . In <i>International Journal of Electronics and Communication</i>		

	<i>Engineering</i> , ISSN (print) 2278-9901, ISSN (online) 2278-991x, volume 2, Issue 5, Roseville, CA - 95678, U.S.A, Nov. 2013, Page: 55–64
2.	Suresh Ghode Arun Parakh Jitendra Singh Rajput, Prototype of short range wireless communication for industrial process controller . In <i>International Journal of Electronics and Communication Engineering</i> , ISSN (print) 2278-9901, ISSN (online) 2278-991x, volume 2, Issue 5, Roseville, CA – 95678, U.S.A, Nov. 2013, page 87–94
3.	Deepesh Kumar Jain, Arun Parakh, Dr. H. K. Verma, Microcontroller Based System For Water Quality Monitoring Using Electronic Sensors , Int. J. of Advanced Research in Electrical, Electronics and Instrumentation Engg, ISSN (Print) : 2320 – 3765, ISSN (Online): 2278 – 8875, Vol. 3, Special Issue 2, April 2014, page122-125
4.	Arun Kumar Parakh, M. Balakrishnan, Kolin Paul, Improving Map-Reduce for GPUs with cache , International Journal of High Performance System Architecture, Inderscience Publisher, Geneva, Switzerland, Publisher, ISSN online:1751-6536 ISSN print: 1751-6528, Vol. 5, Issue 3, July 2015, page 166-177,
5.	Atul Sharma , Dr. Arun Parakh, Design of solar powered induction motor drive for pumping application , international journal of latest trends in engineering and technology, vol.(10)Issue(1), DOI: http://dx.doi.org/10.21172/1.101.41 e-ISSN:2278-621X, Mar, 2018, page.228-237
6.	Sanjay Chaturvedi , Dr. Arun Parakh , Dr. H.K. Verma, Wireless sensor network based real time monitoring system for electrical power distribution network , international journal of latest trends in engineering and technology, vol.(10)Issue(1), DOI: http://dx.doi.org/10.21172/1.101.43 e-ISSN:2278-621X, Mar 2018, page 244-249
7.	Yogesh Singh Jadon, Dr. Arun Parakh, A Smartphone Application To Stop Signature Forgery Using PCA, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-X, Issue-X, Dec-18, page 1-6
8.	Shiva Ji Pal , Dr. Arun Parakh , Application of QR for assist tracking and Inventory management, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue 04, Dec-18, page 1483-1490
9.	Manaswee Shukla, prof. H.K. Verma, Dr. Arun Parakh, Static Voltage Stabilizer Using Spwm, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue 04, Dec-18, page 778-784
10.	Neetika Sengar, Arun Parakh, Remote Control, Protection and Monitoring of Pump for Agricultural Purposes, International Journal of Innovative Science and Modern Engineering (IJISME), DOI:10.35940/ijisme.L1271.1261220, ISSN: 2319-6386 (Online), Volume-6 Issue-12, December 2020, page: 7-10
11.	Rachna Pandey, H.K. Verma, Arun Parakh, Cheshta Jain Khare, Optimization of Power Measurement Unit (PMU) Placement: A Review, International Journal of Emerging Science and Engineering (IJESE), Vol(4), Issue(4),ISSN-2316-6378, Nov-2021, Page 9-13
(ii)	<u>Technical Papers –International /National Conferences</u>
1.	Shailendra Sharma, R S Tare, S Dwivedi, A Parakh, A Novel Approach To Improve Power Quality In Single Phase UPS, IEEE International Conference at Bikaner, Rajasthan, 2007
2.	R. Saha, S.Sharma, A. Parakh, B. Sarkar, Simulation of sensor less Direct Torque Control based on Model Reference Adaptive System, for 3 phase Induction Machine, IEEE International Conference at Bikaner, Rajasthan , 2007

3.	R. Saha, S.Sharma, A. Parakh, B. Sarkar, Simulation of Sensor less Direct Torque & Flux (DTC) Control Based On Model Reference Adaptive System (MRAS), for 3 Phase Induction Machines. IEEE International Conference at Bikaner, Rajasthan , 2007
4.	Somvendra Dubey, Arun Parakh, Shailendra Sharma, Dr. Biswaroop Sarkar, Design and implementation of Feedback Speed Control of Induction Motor using Micro controller, IEEE International Conference at Bikaner, Rajasthan , 2007
5.	Three Phase Multifunction Display Using Energy Metering IC ADE7754 With The Help Of 89C52 Micro Controller. (IEEE sponsored International Conference at Bikaner, Rajasthan , 2007) S. K. Vepur, A. Parakh, R S Tarem, N. Tare
6.	R. Saha, S.Sharma, A. Parakh, B. Sarkar, Development Implementation of Direct Torque Scheme in MATLAB, for 3-phase Induction Machines, National Conference on ITEEPP, Thapar University,Patiala , 2007, [Page: 206-212]
7.	R. Saha, S.Sharma, A. Parakh, B. Sarkar , Novel SVM-DTC based on Imaginary Switching, for3 phase Induction Motor (National Conference on Power Systems (NCPS-2007), Ujjain Engineering College, Ujjain (M.P) , 2007), [Page: 55-59]
8.	S. Dubey,R. Saha, S. Sharma, A. Parakh, B. Sarkar , PC based Design and Implementation of Open Loop Speed Control of Induction Motor (National Conference on Power Systems (NCPS-2007), Ujjain Engineering College, Ujjain (M.P) , 2007),
9.	S. Dubey, R. Saha, S. Sharma, A. Parakh, B. Sarkar, Design of Algorithm for Data Encryption and Decryption, National Conference on Power Systems (NCPS), Ujjain, 2007
10.	S.Dubey,A.Parakh, S. Sharma, B. Sarkar, Design and Implementation of Feedback based Speed Control of Induction motor, IEEE Int. Conf. at Bikaner, Rajasthan ,2007
11.	Rajeev Sharma, Mayura Purkar, Arun Parakh, Design of Algorithm for Data Encryption and Decryption using Embedded system, In NCETIT-2007, Computer Engineering Department, Shri.G.S. Institute of Technology and Science, , 2007
12.	Awanti Sharma, Arun Parakh, Dr. H.K. Verma, Automatic Response System Using SMS In National Conference on Emerging Trends in Electronic Engg. and Technology (NCETET,2008), MIT, Ujjain , 2008
13.	E. Dongre, D. Dongre, Arun Parakh, Database Application for Mobile Phone Using BREW In 3 rd IEEE UKSim European Symposium on Computer Modeling and Simulation, Greece, Italy , 2009, page 523-528
14.	Arun Kumar Parakh, M. Balakrishnan, Kolin Paul , Performance Estimation for GPUs with Cache In 26th IEEE International Parallel and Distributed Programming Symposium workshop(IPDPSw2012), Shanghai China , 2012 , page 2384-2393
15.	Arun Kumar Parakh, M. Balakrishnan, Kolin Paul, Performance estimation and application mapping on different GPUs In 18th IEEE International Conference on High Performance Computing, Student research Symposium (HiPC2012SRS) Pune, India , 2012
16.	Arun Kumar Parakh, M. Balakrishnan, Kolin Paul, Performance enhancement of Map-Reduce framework on GPU , 11th IASTED Int. Conf. on Parallel and Distributed Computing and Networks (PDCN 2013), ISBN: 978-0-88986-955-4, Innsbruck, Austria , 2013, page 795-029
17.	Deepesh Kumar Jain, Arun Parakh, Dr. H. K. Verma, Microcontroller- based System for Water Quality Monitoring using Electronic Sensors , International Conference on Power Control and Instrumentation Engineering (ICPCIE) 2014 , Chennai, TN, India.
18.	Rameshwari Bisen, H. K. Verma, and Arun Parakh, Hardware Implementation of Serial High Speed point to point Communication protocol . In Proceedings of the 2014 International

	Conference on Information and Communication Technology for Competitive Strategies (ICTCS '14). ACM, New York, NY, USA, Nov, 2014, Article 19 ,5 pages
19.	Priya Badera, S.K. Jain, Arun Parakh and Tarun Sharma, Condition Monitoring of Pharmaceutical Autoclave Germs Removal Using Artificial Neural Network , IEEE 11th International Conference on Industrial and Information Systems, Indian Institute of Technology Roorkee, Dec 2016 , page 683-687
20.	Deepali Kothari, Arun Parakh, Application of wireless technologies in agricultural pumps , “IEEE 6th International Conference on Computing of Power, Energy & Communication ICCPEIC-2017”, Adhiparasakthi Engineering College, Kancheepuram, March, 2017
21.	Jigyasa Singhai and Arun Parakh, IoT Based Real Time Electrical Parameter Monitoring And Control, 10th–IEEE International Conference on Communication Systems and Network Technologies (CSNT2021), OIST, Bhopal, 24-25 April, 2021
(ii)	<u>Book/Book Chapter</u>
1.	Pendse A., Parakh A., Verma H.K., Design of Asset Tracking System using Speech Recognition , “3rd International Conference on Information and Communication Technology for Intelligent Systems (ICTIC2018)”, April 06-07, 2018, Springer and Institute of Engineers, Ahmedabad, India, In Information and Communication Technology for Intelligent Systems. Smart Innovation, Systems and Technologies, vol 106. Print ISBN 978-981-13-1741-5 Online ISBN 978-981-13-1742-2 Springer, Singapore, page 371-379
2.	Chaturvedi Sanjay, Parakh A., Verma H.K., Development of a WSN based Data Logger for Electrical Power System , “4th International Conference Information, Communication & Computing Technology (ICICCT-2019)”, May 11, 2019, Springer CCIS Vol.1025, Online ISBN 978-981-15-1384-8, Print ISBN 978-981-15-1383-1, and CSI, International Center, New Delhi, India. Springer Nature Singapore (P) Ltd. 2019, Singapore , Pages 72-83
3.	Sanjay Chaturvedi, Arun Parakh and H. K. Verma, Development of a Wireless Sensor Node for Electrical Power Distribution Monitoring System, 4 th International Conference on Smart Computing and Informatics (SCI-2020), Springer, CSI and Hyderabad, India, in the book series Smart Computing Techniques and Applications , vol. 225, ISBN:978-981-16-0878-0, ISSN: 2190-3018, Springer Singapore, October 2020, page no:747-755
4.	Deepali Kothari, Anjana Jain, Arun Parakh, Chapter 10: IoT-Based Dynamic Traffic Management and Control for Smart City in India (pages 127-139), Computational Methodologies for Electrical and Electronics Engineers, Release Date: March, 2021, DOI: 10.4018/978-1-7998-3327-7 ISBN13: 9781799833277, ISBN10: 1799833275, EISBN13: 9781799833291, ISBN13 Softcover: 9781799833284, IGI Global, USA
5.	Priya Vijayvargiya, Arun Parakh, Chapter 12: Low-Cost Wireless Speed Control and Fault Mitigation of Three-Phase Induction Motor (pages 150-162), Computational Methodologies for Electrical and Electronics Engineers, Release Date: March, 2021, DOI: 10.4018/978-1-7998-3327-7 ISBN13: 9781799833277, ISBN10: 1799833275, EISBN13: 9781799833291, ISBN13 Softcover: 9781799833284, IGI Global, USA
(f)	<u>Member of Editorial Board:</u> Reviewer: <ol style="list-style-type: none"> 1. International Journal of Embedded System, Inderscience Publisher, ISSN online:1741-1076 ISSN print: 1741-1068 2. International Journal Security and Communication Networks, Wiley Publishers, September, 2013

6.	<u>Awards/ Honours / Special Achievements</u>
	<ol style="list-style-type: none"> 1. Session Chaired in The 11th IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2013), Innsbruck, Austria , 2013 2. Received GPU servers and Desktop computers of worth Rs. 5.5Lakh as a donation from Indian Institute of Technology Delhi (IITD), New Delhi in 12th May, 2017 to develop a High Performance Computing Laboratory in Electrical Dept of SGSITS, Indore. 3. Appreciation from National Project Implementation Unit (NPIU), New Delhi for contribution in Assessment of Online UG/PG subjects in the Curriculum. 6Th Jan, 2020. 4. Certificate of Appreciation from AICTE and Texas Instruments (TI) for fostering the ecosystem bridging Government, Academia and Industry in the training program of TI Embedded System Design using MSP430 MCU MOOC during 2020-21.

7.	<u>Membership of Professional Societies</u>
	<ol style="list-style-type: none"> 1. IEEE: 94277988 2. ISRS: Life Member: L-5364

8.	<u>Testing and Consultancy Projects undertaken</u>
	<ol style="list-style-type: none"> 1. Electrical Meter Testing 2. Technical expert for in RAPTC, Indore, 2017, 2018, 2019, 2020 3. MoU with Universal Transformer, Indore 4. MoU with Anand Coolers , Indore 5. Design of Soft Speed Control of Winding Machine for Power Batteries, Indore

9.	<u>List of Conference/Workshops Organized</u>
	<ol style="list-style-type: none"> 1. Two week short term course on “Programming Skill for Electrical Engineering (PSEE2014)”, 01 – 11 September, 2014, Department of Electrical Engineering, SGSITS, Indore and TEQIP Ph-2. 2. One week short term course on “Wind Energy Conversion Systems: Theory, Practice, Operation and Control” 19th Dec – 23rd Dec, 2016, under GIAN (Global Initiative of Academic Network of MHRD, Govt. of India and Department of Electrical Engineering, SGSITS, Indore. 3. Co-coordinator of four week FDP “Use of ICT in Education for Online and Blended Learning” 4. Two days workshop on “Power Electronics Applications in Apparatus Industry” 10-11 December, 2017, sponsored by TEQIP Phase-III and organized by Department of Electrical Engineering, SGSITS, Indore. 5. Two days workshop on “Scope & Effects of Renewable Energy Sources for Demand Side Energy Management” 24-25 March, 2018, sponsored by TEQIP Phase-III and organized by Department of Electrical Engineering, SGSITS, Indore. 6. One Week Short Term Course On “Hand-On Practice On AvERP Module” 1- 5 July, 2018, organized by Department of Electrical Engg, SGSITS, Indore. under the sponsorship of TEQIP Phase-III and collaboration with SYNERPY GmbH, D-95448 Bayreuth, Germany and Universal Transformer, Indore.

7. One day Workshop/Meeting of experts Assessment of Availability of Course On-line, Phase – I , Organized by Department of Electrical Engineering and TEQIP Ph-III, on 14 th Dec, 2019
8. One day Workshop/Meeting of experts Assessment of Availability of Course On-line, Phase – II , Organized by Department of Electrical Engineering and TEQIP Ph-III, on 30 th Dec, 2019.

10. List of Seminars / Workshops/Summer/Winter Courses Attended			
	Details of Course	Duration	Organized by
a)	Programming the 8051, emphasis on 'C'	5-7th Feb, 2003	SPJ Sys, Pune
b)	Computer Organization and Operating Systems,	Aug-Dec 2002	IIT Bombay
c)	Multimedia Based Learning Material Development in Technical Education	16-28 May, 2005	SGSITS, Indore
d)	WebSphere Studio Application Developer for JAVA,	29 Aug – 2 Sept 2005	SGSITS, Indore
e)	Basic Principle of Management	17 - 24 May 2006	SGSITS, Indore
f)	Embedded System & Technology	25 June - 30 June 2007	IIT, Khargpur
g)	Red Hat Certified Programmer	06 - 10 Oct, 2007	SGSITS, Indore
h)	Two week short term course on Signals and Systems	02 -12 Jan, 2014	National Mission on Education, (MHRD, Govt. of India) & IIT KHG at SGSITS, Indore
i)	Two week ISTE Workshop Computer Networking	25 th May- 5 th July, 2014	National Mission on Education, (MHRD, Govt. of India) & IIT Bombay at SGSITS, Indore
j)	Two days conclave on Electrical Sciences under TEQIP-II, Knowledge Network of IITGn	13 th and 14 th March, 2015	IIT Gandhi Nagar, Gandhi Nagar, (Guj)
k)	Two week short term course on Design of Algorithm	27 th April- 30 th May, 2015	National Mission on Education, (MHRD, Govt. of India) & IIT Bombay at SGSITS, Indore
l)	One week short term course on MIMO Wireless communication: Fundamental and Advancement	6th -11th July, 2015	Bharti School of Telecommunication, IIT Delhi and TEQIP
m)	One week Vendor's training program under SMDP-C2SD project on Mentor Graphics EDA Tools	26 th -29 th Dec, 2016	DEITY, Govt. of India and Dept, E & I, Shri G. S. Institute of Tech. And Sc. , Indore (MP)
n)	Two week short term course on Electric Power System	10 July – 15 July, 2017	National Mission on Education, (MHRD, Govt. of India) & IIT Khargpur at SGSITS, Indore
o)	One Week Faculty Development Program on Teaching Learning	04 th – 8 th June, 2018	Teaching Learning Center, IIT Madras, Chennai
p)	Two days Image Processing Software ERDAS IMAGINE	14 th – 15 th January, 2019	CRSST, CIDI, SGSITS, Indore
q)	Two-week STC on 'Technology Based Engg Entrepreneurship	24 th June -5 th July, 2019	College of Engineering Pune (COEP) and GIAN Project of MHRD, Govt of India

	Development programme and Advanced Manufacturing Process		
r)	One Week Short Term Course on Significance, Securing and Sustainability (S3) of Externally Funded Research Projects in Higher Education Institutes(HEIs)	16 th - 21 st Dec, 2019	Indian Institute of Technology, Indore (IIT, I) and TEQIP-III
s)	Two week Short term course on Data Science and Analytic	17 th – 27 th Feb, 2020	Indian Institute of Technology Gandhinagar (IITGn) and TEQIP-III (MHRD, Govt. of India)
t)	Twelve week NPTEL Online Certification on Computer Network and Internet Protocol	Jan-Apr- 2021	IIT Kharagpur and NPTEL-SAWAYAM and MHRD Govt. of India
u)	Two week Interdisciplinary Refresher Course / Faculty Development Program on “Managing Online Classes & Co- creating MOOCS 6.0”	05th - 19th July, 2021	Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION, PMMMNMTT
v)	CMI Level 5 Award in Management and Leadership	2020-21	Chartered Management Institute, UK

11	<u>Invited Lectures/Talks Delivered</u>
1.	Expert Lecture on “C Programming for Electrical Engineering” during “Programming Skill for Electrical Engineering (PSEE2014)”, 01 – 11 September, 2014, Department of Electrical Engineering, SGSITS, Indore.
2.	Judge in “Design Competition in Dept of Electrical Engineering” at Prestige institute of Engineering and management, Indore on National Science Day (02 Feb, 2016)
3.	Expert Lecture on “Digital Signal Processor and Embedded Systems” in Short Term Training Program on “Advanced Techniques in Signal Processing and Communication” under TEQIP Phase-II being organized in the Electronics Engineering Deptt., M.I.T.S, Gwalior on 04 th March., 2016.
4.	Expert Lecture on “Different Microcontroller Classification and Architecture, DSP and Embedded System” at Prestige institute of Engineering and management, Indore on 10 th March, 2016
5.	Expert Lectures on Application of Microprocessor at MediCaps Univ. on 10th Oct, 2017
6.	Expert lecture on Embedded System Design, in TEQIP-III sponsored STTP on “Power Electronics Devices & their Applications in Power System”, at TIT (EXCELLENCE), Bhopal during February 9th 2018.
7.	Examiner for research proposal evaluation in the area of Electrical Engineering at Narsee Monjee Institute of Management and Studies (NIMIS) on 28th April, 2018.
8.	Expert Talk and Demonstration on Importance of Open Source Software at Shakti Pumps , Pithampur on 23 rd Dec, 2019
9.	Online webinar of Accreditation: A Continuous Process: Lets Make it More Effective at SGSITS, Indore on 11 th June, 2020
10.	Three days Online Short Term Course on “Understanding of Microprocessor Architecture, Application and Tools using Arduino Platform” at RGPV, Bhopal on 17 th July 2020 to 19 th July 2020

11.	Expert lecture on Designing of Embedded System for Electrical Engineering Domain , in TEQIP-III sponsored Five days FDP on “Promising Trends in Electricity Grid Modernization”, at OIST, Bhopal during August 23th 2021
12.	<u>Any other relevant information</u>
1.	Developed Software for Practical Exam Scheduling
2.	Developed Software for Web based Departmental Management System
3.	Actively using latest technologies like googlegroups, spread sheets, latex, gnuplot etc to improve quality and efficiency of teaching.
4.	Laboratory developed for UG and PG programs, “Digital Hardware Design Lab”
5.	Appointed as Moderator of Question Papers for university examination of Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore (MP) on 27 th Oct, 2017
6.	<p>Paper Presentation:</p> <ol style="list-style-type: none"> 1. 26th IEEE International Parallel and Distributed Programming Symposium workshop(IPDPSw2012), Shanghai China , 2012 2. 18th IEEE International Conference on High Performance Computing, Student research Symposium (HiPC2012SRS) Pune, India, 2012 3. 11th IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2013), Innsbruck Austria, 2013 4. 6th IEEE International Conference on Computing of Power, Energy & Communication I(CCPEIC2017), Melmaruvathur. Kancheepuram, March, 2017

Dr. Arun Parakh
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