

Prof. Ashish Verma

Curriculum Vitae

Designation: Professor

Date of birth: 23/03/1963

Date of holding presentation post: 25/05/2013

Name of Department and School: Physics, Mathematical and Physical Sciences.

Contact details: Email id: vermaashish31@rediffmail.com, averma@dhsu.edu.in ;

Mobile no. 9424554171, 9424450056

Additional responsibility in the University: 1. Dean, School of Mathematical and Physical Sciences,
2. Director in-charge, Institute of Engineering and Tech.
3. Head, Department of Computer Science and App.

Educational Qualifications: B.Sc.(PCM), M.Sc.(Physics), Ph.D.(in Luminescence)

Certificate Course in COVID-19 Contact Tracing from Johns Hopkins University, Baltimore, Maryland(2020)



Research Area/Specialization

- Luminescence Study Embedded System and VLSI Designs.
- Digital Electronics, Electronic Devices, Sensors, Microprocessors (8, 16, 32 bits), VLSI Design.

Awards/ Honors / Fellowship Conferred (With details thereof)

- Bharat Ratna Radha Ballabh Gold Medal award 2022
- Research Excellence Award 2022, from Institute of Scholar
- Scholarship from B.P.R & D, Delhi
- INSC Research Excellence Award, 2022

Patents

No. of Patents Filed/Published (with title and other details):

- Title: **A system for IoT connected devices for data migration and synchronization**
Author: Dr. Ashish Verma, Ms. Sherry Nasir; et.al;
Field: Engineering and Technology
Date of filing: 10-07-2022
Date of publication: 22-07-2022
- Title: **An AI based system for providing adaptive services for an IoT environment**
Author: Dr. Ashish Verma, Ms. Sherry Nasir; et.al;
Field: Engineering and Technology
Date of filing: 30-07-2022
Date of publication: 07-08-2022
- Title: A UREA FUEL COMBUSTION METHOD FOR SYNTHESIS OF EUROPIUM DOPED CaAl₄O₇ HOST MATERIAL
Author: Mr. Praveen Kumar Litoriya, Dr. Ashish Verma, Ms. Swati Kurmi; et.al;
Field: Physics and Material Science
Date of filing: 25-07-2022
Date of publication: 12-08-2022

Research Projects (Completed and Ongoing)

- Design & Development of Black Box for Railway Engine, UGC- 3 years- 33-91/2007(SR)- 7,38,800/--completed
- Design & Development of an Embedded System for controlling a Robotics for sewer inspection.- MPCST,Bhopal- 1 year- R&D/Phy,23/08-09- 4,59,500/--Completed

Ph. D. Awarded

- 2019-**OPTICAL AND STRUCTURAL STUDIES OF ZINC ALUMINATE BASED PHOSPHOR ACTIVATED WITH RARE EARTH METALS**, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Sanjay Kumar Pathak.
- 2019-**LUMINESCENCE STUDIES OF ALUMINATE BASED PHOSPHORS ACTIVATED WITH RARE EARTH METALS**, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Akshkumar Verma
- 2013-**ELECTRONIC SPECTRAL INVESTIGATIONS OF SOME RARE EARTH ACTIVATED BORAX GLASSES**, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Swati Mishra
- 2012-**SOME NEW METHODOLOGIES FOR TESTING EMBEDDED SYSTEM**, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Neelesh Jain

- 2012-ANALYSIS AND DESIGN OF UNIVERSITY EDUCATIONAL FRAME WORK & DATABASE TOWARDS E-GOVERNANCE, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Uday Shrivastava
- 2012-DESIGN & DEVELOPMENT OF SOME CONTROL SYSTEMS USING FUZZY LOGIC TECHNIQUES, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Abhishek Kumar Dwivedi
- 2012-DESIGN & DEVELOPMENT OF AN EMBEDDED SYSTEM FOR CONTROLLING THE ROBOTIC EQUIPMENT FOR SEWER BLOCKAGE DETECTION, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Ajay Kumar Shrivastava
- 2011-LUMINESCENCE OF MAGNESIUM ALUMINATE, Bhoj University, Bhopal, J. Bhargava
- 2011-STUDY AND ANALYSIS AND MODELING OF LOW-POWER, HIGH SPEED OPTIMIZED CMOS DIGITAL LOGIC AND MEMORY BASED VLSI SYSTEM ON CHIP CIRCUITS, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Fazal Noorbhasha
- 2011-SPECTRAL INVESTIGATION OF SOME RARE EARTH ACTIVATED BOREX GLASSES, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Rajendra
- **2010-DESIGN & DEVELOPMENT OF AN EMBEDDED SYSTEM FOR MULTI-MONITORING MEDICAL SYSTEM, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Shalini Jain**
- **2009-DESIGN & DEVELOPMENT OF BLACK BOX FOR RAILWAY ENGINE, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Alka Dubey**
- **2008-MICROCONTROLLER BASED SAFETY SYSTEM FOR RAILWAYS, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Ranjana Bohre**
- **2007-LUMINESCENCE AND SPECTRAL STUDIES OF SOME RARE EARTH BORAX GLASSES, Dr. Harisingh Gour University, Sagar, Sujeet Jain**
- **2007-DESIGN & DEVELOPMENT OF CONTROL SYSTEM USING 16-BIT MICROPROCESSOR, A BLOOD TRANSFUSION SYSTEM N, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Rama Shankar Verma**
- **2004-ELECTRONIC SPECTRAL INVESTIGATION OF PRASEODYMIUM AND NEODYMIUM IN SOME ORGANIC AND INORGANIC COMPOUND, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Saurabh Badonia**

Publications

- **2007-Alka Dubey and Ashish Verma**, Design & Development of Black Box for Railway Electric Engine WAP7, Proceedings of M.P.Science Congress, (2007) 40-49
- **2007-R.S.Verma and Ashish Verma**, Study the theoretical aspects of 16bits microprocessor controller blood Transfusion System, Advances in Electronic Material and Devices, (2007) 191-195
- **2007-R.S.Verma and Ashish Verma**, Design & Development of microprocessor based two way stepper motor, Madhya BHarti, 52, (2007), 38-45
- **2007-Alka Dubey, Ashish Verma and Ranjana Bohre**, A microcontroller based system to reduce the sound pollution produced by automobiles in urban areas, Research Hunt, Volume II issue V, (2007) 20-23
- **2007-Ranjana Bohre, Ashish Verma and Alka Dubey**, Receiving and Transmitting system using USART in railway electric engine aWAP7, Research Hunt, Volume II issue V, (2007) 17-19
- **2008-Alka Dubey and Ashish Verma**, Smart vibration sensor with wireless communication for recording & analyzing train vibration, Proceedings of the 4th International conference on wireless communication and sensor network, Vol.1 II issue, (2008) 126-128
- **2008-Fazal Noorbhasha, Ashish Verma and Alka Dubey**, Arithmetic and Logic operation control(ALOC) system-on-chip(SoC) device for Microprocessor, Research Hunt, 3(vi), (2008), 1-6
- **2008 -Rajendra, Ashish Verma, Swati Mishra and Shishir Jain** Trap depth evaluation of Nd, Eu and Sm doped CaO phosphor, J. of Current Science, 12(2), (2008), 445 -453
- **2008-Rajendra, Ashish Verma, Swati Mishra and Shishir Jain**, Study the effect of Eu, Nd and Sm activators on glow curve of CaO phosphor, J. of Current Science, 12(2), (2008), 454 -459
- **2008-S.P.Singh, Ashish Verma and Ajay Kumar Shrivastava**, Design and Development of Robotic sewer inspection equipment controlled by embedded system, IEEE Volume 978-7695-3267-7/08, (2008) 1317-1320
- **2008-Ajay Kumar Shrivastava, Ashish Verma and S.P.Singh**, Partial Automation of the current sewer cleaning system, J. Science & Technology. 1(4), (2008), 261-265
- **2009-Shalini Jain and Ashish Verma**, A low cost pulse rate measurement circuit along with the blood pressure indicator, Sci-Front, III(3), (2009), 141-142
- **2009-Alka Dubey and Ashish Verma**, Design and Development of a wireless sensor network for transferring the data from electric engine to passing railway station for vigilance purpose, Global Sci-Tech, 1(3), (2009), 188-190
- **2009-Fazal Noorbhasha and Ashish Verma**, A VLSI SoC layout process for static combinational logic circuits in 90nm technology, Madhya Bharti, 55, (2009) 92-99
- **2009-Fazal Noorbhasha and Ashish Verma**, ASIC Hardware Implementation of Dual Mode Traffic light control, E-Journal of Science and Technology, Athence, (2009) 109-115
- **2009-Ranjana Bohre and Ashish Verma**, Robotics manipulator for turning the break lever of electric engine, Global Sci-Tech., 1(3), (2009) 177-179
- **2009-Ajay Shrivastava, Ashish Verma and S.P.Singh**, Effect of vibration of separation between the Ultrasonic transmitter and receiver on the accuracy of the distance measurement, International J. Computer Science and Information Technology, 1(2), (2009) 19-29

- **2010**-Alka Dubey and **Ashish Verma**, A low cost microcontroller based engine status monitoring system, , E-Journal of Science and Technology, Athence, 4(5), (2010) 37-42
- **2010**-Alka Dubey and **Ashish Verma**, Design and Development of Black Box for analyzing accidents in railways, Sensors and Transducers, 114(3), 2010) 151-160
- **2010**-Alka Dubey and **Ashish Verma**, Design and Development of an automatic level crossing monitoring system using wireless sensor network in WCR zone Sensors and Transducers, 111(78), (2010) 151-160
- **2010**-Uday Shrivastava, **Ashish Verma** and R.S.Kasana. An Approach for E-Government project assessment, International J.E-Governance, vii, (2010) 33-38
- **2010**-Ranjana Bohre, **Ashish Verma**, Alka Dubey, R.S.Verma, Shalini Jain and Fazal Noorbhasha, Communication between microcontroller to microcontroller control application, J.Current Science, 15(1), (2010) 271-276
- **2010**-Sujeet Jain and **Ashish Verma**, Spectral Investigation of Ho(III) doped borax glasses, Journal of Physics, III, (2010) 37-42
- **2010**-Ranjana Bohre, **Ashish Verma**, Alka Dubey, R.S.Verma, Shalini Jain and Fazal Noorbhasha, Topology and Matrix for multiprocessor system Robotics, J.Current Science, 15(1), (2010) 77-80
- **2010**-**Ashish Verma**, Alka Dubey, Shalini Jain, Ajay Shrivastava, S.P.Singh and Manish Kshetrapal, A microcontroller based leakage current detection and its control system, Global Sci-Tech., 2(3), (2010) 186-192
- **2010**-Fazal Noorbhasha and **Ashish Verma** and Abdul Kareem P., An Embedded system implementation for an *-bit AL processor control, Proceedings of the International conference on Aerospace Electronics, Communication and Instrumentation, (2010) 186-190
- **2010**-Fazal Noorbhasha, **Ashish Verma** and A.M.Mahajan, Study the analysis of low power and high speed CMOS logic circuit in 90Nm technology, , E-Journal of Science and Technology, Athence, (2010) 43-50
- **2010**-Alka Dubey and **Ashish Verma**, Black Box for Railway Electric engine recording temperature and voice recording unit, Global Sci-Tech., 2(2), (2010) 63-68
- **2010**-Alka Dubey and **Ashish Verma**, Automatic level crossing monitoring using WSN in WCR zone, 2nd International conference on RF and Signal processing system, (2010) 304-308
- **2010**-Ajay Kumar Shrivastava, Ashish Verma and S.P.Singh, Distance measurement of an object or obstacle by ultrasonic sensor using P89C51RD2, International J. Computer Science, 2(1), (2010) 64-68
- **2010**-Alka Dubey and **Ashish Verma**, Concept of Black Box for Railway electric engine in Indian Perspective, Global Sci-Tech., 2(1), (2010) 55-61
- **2010**-Uday Shrivastava, **Ashish Verma** and R.S.Kasana, Architecture and frame work of e-literacy: Major role player of E-Education, International J. Electronic Government Research, (2010), 21-25
- **2011**-Neelesh Jain, Ashish Verma and Shalini Jain, The Psychology of testing embedded system. Proceedings of the International conference on recent trends in Engineering, Technology and Management, (2011) 306-310
- **2011**-Abhishek Dwivedi and Ashish Verma, Fuzzy Logic Controller for variable speed drive, National Conference on Emerging interface of physics and Technology, (2011) 195-198
- **2011**-Neelesh Jain, R.S.Verma, Ashish Verma and Shalini Jain, Testing Embedded software in microcontroller based Blood Transfusion System, Conference on wireless network and embedded system, (2011) 85-87
- **2011**-Shalini Jain, Neelesh Jain, R.S.Verma, and Ashish Verma, Testing Embedded system in microcontroller based ECG recording system, Conference on wireless network and embedded system, (2011), 18-21
- **2011**-Neelesh Jain and Ashish Verma, Embedded System, Madhya Bharti, 56, (2011) 105-114
- **2012**-Neelesh Jain and Ashish Verma, Testing Fault in embedded system application, Ultra Science, 24(1)B, (2012) 41-48
- **2012**-Neelesh Jain, Ashish Verma, R.S.Verma and Prashant Tiwari, Going Social: The Impact of social networking in promoting education, International J.Computer Science, 9(3)No.1. (2012) 483-485
- **2012**-Neelesh Jain, Ashish Verma and Shalini Jain, Multilevel Test method for testing Microcontroller based ECG system, International J. Computer Application, 46(9)issue-3, (2012), 31-35
- **2013**-Neelesh Jain, B.P.Agnohotri and Ashish Verma, Impact Assessment of E-Governance in India, International J. Engineering and Management Research, Volume-3, Issue-6, December-2013, ISSN No. : 2250-0758
- **2014**-Neelesh Jain and Ashish Verma, Essentials of testing Embedded system, International Conference on Interdisciplinary research in Engineering, Management and Pharmacy, (2014)
- **2016**-A.K.Saraf and **Ashish Verma**, Power Spectral density of FSK modulation in complex binary system, Madhya Bharti, 2016, Vol.60(1), 59-61, ISSN No. 0972-7434
- **2017**-Harshel Jain and **Ashish Verma**, Study of the propagation delay and rise, fall time of Gate based static CMOS based circuit design, International J. Research in Electronics and computer Engineering, Vol.5, Issue 2, Apr-June 2017 (<http://www.i2or-ijrece.com/vol.-5-issue-2.html>)
- **2021**-Sherry Nasir and **Ashish Verma**, Designing of WSN based Embedded System using Wearable Sports Sensors: A theoretical Approach, J. Multidisciplinary Engineering Science and Technology, Vol. 8, Issue 2(2021) 2458-9403(<http://dx.doi.org/10.13140/RG.2.2.21506.61122>)
- **2021**-Sherry Nasir and **Ashish Verma**, Designing an Embedded System for Analysis of X-Ray results for Covid-19 Patients as X-Rays Computed Tomography Device for Lungs Diagnosis, International J. Multidisciplinary Educational Research, Volume 10, Issue 4(3)(2021) 2277-7881 ([http://ijmer.in/issues/volume10/volume10-issue4\(3\).aspx](http://ijmer.in/issues/volume10/volume10-issue4(3).aspx))
- **2021**-Sherry Nasir and Ashish Verma, Designing a cost effective embedded system using internet of things Technology for monitoring health issues in rural areas in Indian perspective: A Theoretical Approach; Vidyabharati International interdisciplinary research journal (special issue) ISSN 2319-4979 (<http://www.viirj.org/specialissues/2021/SP2113/SP2113.html>)

- **2022-Sherry Nasir and Ashish Verma**, Role of Embedded system for X-ray comparison of lungs to detect a COVID-19 affected person at the entry point of Aerodromes, Railway station and Metro station in perspective of India,SAMIRIDDHI, Vol.10, Issue 4(3), (2022) ([http:// 10.18090/samriddhi.v14i01.17/](http://10.18090/samriddhi.v14i01.17/))

Book published – 01

- माइक्रोप्रासेसर, 8085,68000 तथा पेंटीयम के अंकगणित औरलॉजिकलप्रचनाल, **आशीष वर्मा**, 2002

Chapters in books-02

- तरंग भौतिकी और ध्वनिकी, **आशीष वर्मा** तथा आर एस कसाना, 2003

International Seminar/Conference/Workshops (Attended)

- **1995-National Seminar Under Physics Department , Balaghat, M.P.[Paper Presentation]**
- **2003-National Science Day Celebration, Dr. Harisingh Gour V.V., Sagar,M.P. .[Paper Presentation]**
- **2005-National Conference on Emerging Technologies & Application, Computer Science Department of Saurashtra University, Rajkot.[Paper Presentation]**
- **2005-Second Madhya Pradesh Science Congress, Carrier College, Bhopal.[Paper Presentation]**
- **2006- Participated in Indian Science Congress at Acharya N.G. Ranga Agriculture University, Hyderabad**
- **2006-National Conference on Advances in Electronic Materials and Devices, Guru Ghasidas University, Bilaspur (C.G) . [Paper Presentation]**
- **2006-National Seminar on Pollution and its effect on urban environment, Govt. Science and commerce college, Benazeer, Bhopal**
- **Sponsored by: UGC New Delhi & MPCST, Bhopal.[Paper Presentation]**
- **2007-Participated in National Seminar on Non-Conventional Renewable energy sources, Department of Physics & Eelectronics, Dr. Harisingh Gour V.V., Sagar**
- **2007-National Science Day Celebration, Emerging Areas in Science & Technology, Dr. Harisingh Gour V.V., Sagar . [Paper Presentation]**
- **2008-Fourth International Conference on Wireless Communication and Sensor Network, Indian Institute of Information Technology, Allahabad .[Paper Presentation]**
- **2008-National Symposium on Instrumentation, Andhra University College of Engineering, Andhra University, Visakhapatnam and Instrument Society of India, Indian Institute of Science, Bangalore.[Paper Presentation]**
- **2008-Participated in Regional Seminar on Intellectual Property & Innovation Management in Knowledge Era, MPCST, Bhopal and National Research Development corporation**
- **2008-National Science Day, Dr. Harisingh Gour V.V., Sagar . [Paper Presentation]**
- **2009-8th National Conference on Solid State Ionics: Materials for Novel Devices, Dr. Harisingh Gour V.V., Sagar . [Paper Presentation]**
- **2010-2nd International Conference on RF and Signal Processing System, KL University, Guntur,AP [Paper Presentation]**
- **2010-International Conference on Aerospace Electronics, Communication and Instrumentation, Vijayawada, AP [Paper Presentation]**
- **2011-International Conference on Recent trends in Engineering, Technology & Management, Bundelkhand Institute of Engineering & Technology, Jhansi,UP [Paper Presentation]**
- **2011-4th National Conference & ISTE State Chapter Annual Convention on Wireless communication & VLSI design. Gwalior Engineering College, Gwalior [Paper Presentation]**
- **2011-National Seminar on Component based software Engineering sponsored by AICTE, organized by Department of IT, UIT, RGPV Bhopal [Paper Presentation]**
- **2012-National Seminar on Science for shaping the future of India, Sponsored by The Indian Science Congress Association, Sagar Chapter, BTIRT Sagar [Paper Presentation]**
- **2012-National Seminar on Environment and Society, organized by Department of Sociology, Dr. Harisingh Gour V.V., Sagar .[Paper Presentation]**
- **2012-National Seminar on The role of Universities in lifelong learning, Department of Adult, Continuing Education and Extension, Dr. Harisingh Gour V.V., Sagar .[Paper Presentation]**
- **2013-National Seminar on Implementation of the schemes of quality extension year in Higher Education of MP: Problem & Possibilities, Raja Bhoj Govt. College, Mandideep, Sponsored by Department of Higher Education, MP, Bhopal [Paper Presentation]**
- **2013-International Conference on Global Innovation in science and management, SVU, sagar, 27-28 Feb.2013[Paper Presentation]**
- **2014-International Conference on interdisciplinary research in Engineering, Management, Pharmacy and Science, SVU, sagar, 27-28 Feb.2014**
- **2015-International Conference on Recent trends in Science and Technology, SVU, sagar, 27-28 Feb.2015 [Paper Presentation]**
- **2016-International Conference on Challenges in Environmental Science and Technology, SVU, sagar, 27-28 Feb.2016**

- **[Paper Presentation]**
- **2016-National Conference on Industrial Electronics and Electrical Engineering, Swami Vivekanand University, Sagar**
- **[Paper Presentation]**
- **2017-National Conference on Energy for sustainable Development, Department of Physics, Dr. Harisingh Gour V.V., Sagar**
- **[Paper Presentation]**
- **2017- National Seminar on Global Innovative Engineering Techniques for sustainable development, Swami Vivekanand University, Sagar[Paper Presentation]**
- **2019-Participated in International Conference on Wallopog Globalization in Engg-Med-Eci-Agri-Pharm-Tech Research, SVU, Sagar, 27-28 Feb.2019**
- **2020-Virtual Online National Conference 2020, LNCT, Bhopal [Paper Presentation]**
- **2020-Participated in AIP Conference Proceedings, 05 May 2020**
- **2020-Participated in National Webinar on Pandemic Time and Yoga, Swami Vivekanand University, Sagar**
- **2020-Participated in a webinar on Future of AI hosted by IETE, Mumbai 20th May 2020**
- **2020-Participated in a webinar on Development of deep learning architecture hosted by IETE, Mumbai 25th May 2020**
- **2020-Participated in a webinar on Conventional Bot Design hosted by IETE, Mumbai 30th May 2020**
- **2020-Participated in a webinar on software development life cycle-current industry practices hosted by LNCT, Bhopal, 30th May 2020**
- **2020-Participated in a webinar on Advances in Biomass Energy Technology hosted by Poornima College of Engineering, Jaipur, 30th May 2020**
- **2020-Participated in a webinar on Digital Marketing, Sagar Institute of Research Technology and science, Bhopal, 03/06/2020**
- **2020-Participated in a webinar on Accreditation & Outcome based education for NBA/NAAC, Sagar Institute of Research Technology and science, Bhopal, 08/06/2020**
- **2020-Participated in a webinar on Android Programming Development, Sagar Institute of Research Technology and science, Bhopal, 09/06/2020**
- **2020-Participated in a webinar on Application Design of Brain Computer Interface, ADAMAS UNIVERSITY, 13/06/2020**
- **2020-Participated in a webinar on Patenting Your Innovation, St. Peter's Engineering college, Hyderabad, 16/06/2020**
- **2020-Participated in a webinar on How to write a research paper to referred journal, Dhirajlal Gandhi College of Technology, Satem, 04/07/2020**
- **2020-Participated in a webinar on IIoT Industry 4.0, Shri Ramchandra college of Engineering, 25/07/2020**
- **2021-9th International Conference on Current Research Trends in Pharmacy, Engineering, Agriculture, Science, Technology and Management during Pandemic, Swami Vivekanand University, Sagar, 27/02/2021**
- **[Paper Presentation]**
- **2021-A one day International symposium on Research Cinnacle on Industry 4.0, hosted by M.L.Dahanukar College of Commerce, Mumbai, 4th October 2021**
- **[Paper Presentation]**
- **2022-Participated in a online International Conference on Current Trends in Advanced Materials and their application for Societal Development, Department of Physics, Dr. Harisingh Gour V.V., Sagar**

National Seminar/Conference/Workshops/ Webinars (Organized)

- Organizing Secretary, National Symposium on Advances in Laser and Spectroscopy, 2009
- Convener, A webinar on Optimized Digital Logic circuit design and Testing By Dr. Fazal Noorbhasha, K L University, Guntur, A.P., 20/06/2020, Department of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on [A] Emerging fields of Modern Electronics, By Prof. Rajkamal, DAVV, Indore [B] Role of MATLAB in Physics, Dr. Alka Dubey, Former Principal, AIST, Sagar, 30/6/2020, Department of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on Nano-photonic Material and Devices, By Prof. Shobha Shukla. IIT, Bombay, 18/7/2020, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on Research Frontier of IoT By Prof. Ajay K. Shrivastava, 9/8/2020, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on Luminescence and its future By Prof. Nameeta Bramhe, 20/06/2021, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on Medical Physics and Nano-Medicine for Cancer Treatment by Dr. Abdul Parchur 12/7/21, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar
- Convener, A webinar on Towards a smarter battery management system for electric vehicle applications by Dr. Anji Reddy Polu, BVRIT Hyderabad college of Engineering 12/02/2022, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar.
- Convener, A webinar on Metal oxide Nanomaterials for Sensing Applications, some experimental results. by Prof. N.K. Pandey, University of Lucknow, 28/02/2022, Deptt. of Physics, Dr. Harisingh Gour V.V., Sagar.

Workshop & Training Program attained:

- 2021-Two days workshop on MATLAB AND SIMULINK APPLICATION IN ENGINEERING, hosted by Department of Electricals and Electronics Engineering, Shri Shankaracharya Group of Institution, SSTC, Bhilai(CG) 19-20 February 2021

- 2008-One day workshop of SCIENCE AWARENESS, Supported by MP council of science & Technology at Govt. Nodal College, Sagar, 27/02/2008
- 2011-Two Day Intensive Workshop on XILINX EMBEDDED DESIGN FLOW, Department of Electronics & Communication Engineering, K L University, Guntur [A.P.],03-04/12/2011
- 2012-Three days Short term training Program on EMBEDDED SYSTEM PROGRAMMING, School of Electronics, Devi Ahilya University, Indore, 24-26/02/2012
- 2014-one day workshop on Nuclear Magnetic Resonance Spectroscopy and its application in Physics, Chemistry and Biology, Department of physics, Dr. Harisingh Gour University, Sagar[M.P.] 16th Feb.2014
- 2020-. One Week International online knowledge development program on Challenges and Advancement in the design of IoT, Embedded and VLSI systems: A Researchers View hosted by Gudlavalleru Engineering College, AP, 8th-13th June 2020
- 2022-Workshop on Improving Scientific Research writing and Publication Skill, RKDF University, Bhopal, 16.04.2022

Memberships in various Bodies:

- Dean, School of Mathematical and Physical Sciences (2021- Present)
- Head, Department of Physics (2017-2020)
- Proctor of the university, Dr. Harisingh Gour V.V., Sagar,
- Chairman, council of wardens of the University, Dr. Harisingh Gour V.V., Sagar
- Chief Security Officer, Dr. Harisingh Gour V.V., Sagar,
- Assist. Director, Academic Staff College, Dr. Harisingh Gour V.V., Sagar,
- Member BOS in Physics & Electronics, Dr. Harisingh Gour V.V., Sagar
- Member BOS in Computer Science & Application, Dr. Harisingh Gour V.V., Sagar
- Member, University Sports Committee, Dr. Harisingh Gour V.V., Sagar
- Chairman, Sports UTD Sagar. Dr. Harisingh Gour V.V.,
- Chief coordinator, re-totaling ,Dr. Harisingh Gour V.V., Sagar
- Department of Computer Science & Application, Dr. Harisingh Gour V.V., Sagar,
- Director In-Charge, Institute of Engineering & Technology, Dr. Harisingh Gour V.V., Sagar
- Assistant Director, International Human Rights and Crime Control Council, under Govt. of India.
- Executive Member, Anti-corruption Foundation of India

Lecture delivered:

- In Academic Staff College Jabalpur[M.P.] :one
- In Nobel college, Sagar on Digital Electronics : one
- In Academic staff college, Sagar:four
- Adina Institute of technology, Sagar:Three
- SVN University, sagar:Three
- Sardar Ptel University Balaghat,MP-7 JUNE 2021
- Sardar Ptel University Balaghat,MP-4 DECEMBER 2021
- Govt. P.G.College, Damoh,MP-one, 25 AUGUST 2021
- Govt. P.G.College, Damoh,MP-one, 26 AUGUST 2021
- Govt. College Patharia Distt. Damoh,02/03/2022
- Govt. College Patharia Distt. Damoh,02/03/2022

Ph. D. Awarded:

- 2019-**OPTICAL AND STRUCTURAL STUDIES OF ZINC ALUMINATE BASED PHOSPHOR ACTIVATED WITH RARE EARTH METALS**, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Sanjay Kumar Pathak.
- 2019-LUMINESCENCE STUDIES OF ALUMINATE BASED PHOSPHORS ACTIVATED WITH RARE EARTH METALS, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Akshkumar Verma
- 2013-ELECTRONIC SPECTRAL INVESTIGATIONS OF SOME RARE EARTH ACTIVATED BORAX GLASSES, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Swati Mishra
- 2012-SOME NEW METHODOLOGIES FOR TESTING EMBEDDED SYSTEM, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Neelesh Jain
- 2012-ANALYSIS AND DESIGN OF UNIVERSITY EDUCATIONAL FRAME WORK & DATABASE TOWARDS E-GOVERNANCE, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Uday Shrivastava
- 2012-DESIGN & DEVELOPMENT OF SOME CONTROL SYSTEMS USING FUZZY LOGICTECHNIQUES, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Abhishek Kumar Dwivedi
- 2012-DESIGN & DEVELOPMENT OF AN EMBEDDED SYSTEM FOR CONTROLLING THE ROBOTIC EQUIPMENT FOR SEWER BLOCKAGE DETECTION, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Ajay Kumar Shrivastava
- 2011-LUMINESCENCE OF MAGNESIUM ALUMINATE, Bhoj University, Bhopal J. Bhargava

- 2011-STUDY AND ANALYSIS AND MODELING OF LOW-POWER, HIGH SPEED OPTIMIZED CMOS DIGITAL LOGIC AND MEMORY BASED VLSI SYSTEM ON CHIP CIRCUITS, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Fazal Noorbhasha
- 2011-SPECTRAL INVESTIGATION OF SOME RARE EARTH ACTIVATED BOREX GLASSES, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Rajendra
- **2010-DESIGN & DEVELOPMENT OF AN EMBEDDED SYSTEM FOR MULTI-MONITORING MEDICAL SYSTEM, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Shalini Jain**
- **2009-DESIGN & DEVELOPMENT OF BLACK BOX FOR RAILWAY ENGINE, Dr. Harisingh Gour Vishwavidyalaya, Sagar,Alka Dubey**
- **2008-MICROCONTROLLER BASED SAFETY SYSTEM FOR RAILWAYS, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Ranjana Bohre**
- **2007-LUMINESCENCE AND SPECTRAL STUDIES OF SOME RARE EARTH BORAX GLASSES, Dr.. Harisingh Gour University, Sagar, Sujeet Jain**
- **2007-DESIGN & DEVELOPMENT OF CONTROL SYSTEM USING 16-BIT MICROPROCESSOR, A BLOOD TRANSFUSION SYSTEM N, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Rama Shankar Verma**
- **2004-ELECTRONIC SPECTRAL INVESTIGATION OF PRASEODYMIUM AND NEODYMIUM IN SOME ORGANIC AND INORGANIC COMPOUND, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Saurabh Badonia**

Membership in Committees:

- 2022 **Infrastructure for online learning under capital Assets-35**, as Chairman
- 2022 **Screening committee for guest lecturer**, as Dean SMPS
- 2022 **Compassionate Appointment Committee**, as Chairperson
- 2022 **Flying squad**, as member
- 2021 **Write Off Committee**, as Member
- 2020 **Library Committee**, as Member
- 2020 **Result Processing Committee**, as Coordinator & Scrutinizer
- 2020 **UFM Committee**, as HoD
- 2020 **Organization Committee {International Conference on Indigenous Knowledge & Prevalent Practices}**, as Member
- 2019 **School Board, School of Mathematical & Physical Sciences**, as Professor Member
- 2019 **School Board, School of Chemical Science and Technology**, as Member
- 2019 **Investigation Committee**, as Member
- 2019 **Games Committee**, as Member
- 2019 **Ad-hoc Games Committee**, as Member
- 2019 **Convocation 2019**, as Member
- 2019 **Scrutinizer for application of Associate Professor**, as Member
- 2019 **Monitoring Committee**, as Member
- 2019 **CCTV camera Committee**, as Member
- 2019 **Committee for Security Agency**, as Member
- 2017 **Committee for allocation Additional Budget**, as Member
- 2017 **Committee for Tender for Mark sheet**, as Member
- 2017 **Gour Jayanti 2017, Security Committee**, as Coordinator
- 2016 **Diamond Jubilee Celebration, Disciplinary and Security Committee**, as Member
- 2014 **Advisory Committee Academic Affairs**, as Member
- 2014 **Technical Committee**, as Member
- 2013 **Interview Committee**, as Member
- 2013 **Academic Council 2013**, as Assistant Professor Member
- 2013 **Sophisticated Instrumentation Centre Advisory Committee**, as Special Invitees
- 2013 **Rajyabhasha Committee**, as Member
- 2013 **Sophisticated Instrumentation Centre**, as Teacher In-Charge
- 2012 **Organizing Committee Central University Foundation Day**, as Member
- 2012 **Student Council Election 2012-13**, as Member
- 2012 **Advisory Committee Gour Jayanti 2012**, as Member
- 2012 **Ad-hoc Sport Committee**, as Member
- 2012 **convocation committee**, as Member
- 2012 **Dispose off committee for bamboo trees**, as Chairman
- 2012 **Technical and Commercial bid committee for security agency**, as In-charge security
- 2012 **Academic Staff College, Sagar University**, as Assistant Professor
- 2012 **Inspire Award , Science Exhibition , 2012**, as Subject Expert
- 2012 **Safety Officer**, as Safety Officer
- 2012 **In-charge Physical Education Department**, as In-charge

- 2011 **Student Council 2011-12**, as Member
- 2011 **Organization Committee Youth Festival 2011-12**, as Disciplinary Committee Member
- 2011 **Advisory Committee Gour Jayanti 2011**, as Member
- 2011 **Anti Ragging Committee for UTD**, as Member
- 2011 **Proctorial Board 2011**, as Member
- 2011 **Inspire Award, Science Exhibition , 2011**, as Subject Expert
- 2011 **In-charge Security**, as In-charge security
- 2010 **Board of Studies, Govt. Auto. PG Girls College, Sagar**, as Subject Expert
- 2010 **Departmental Disciplinary and Anti ragging Committee**, as Joint Proctor
- 2010 **Complaint Committee**, as Member
- 2010 **Inspire Award , Science Exhibition**, as Subject Expert
- 2010 **Proctorial Board**, as Joint Proctor
- 2009 **Admission Committee**, as Member
- 2009 **Committee of form testing of B.Ed. of colleges**, as Member
- 2009 **committee for complaint of students regarding result**, as Member
- 2009 **Disciplinary committee for Gour Jayanti**, as Member
- 2009 **Gour Award committee for Players**, as Member
- 2009 **Flying Squad for main examination**, as Member
- 2008 **Admission Committee**, as Member
- 2008 **Proctorial Board**, as Joint Proctor
- 2008 **Central Valuation**, as coordinator
- 2007 **Admission Committee**, as Member
- 2007 **Academic Staff College, Sagar University**, as Lecturer
- 2006 **Admission Committee**, as Member
- 2005 **Executive Council, Govt. Auto. PG Girls College, Sagar**, as Member
- 2004 **Admission Committee**, as Member



[Prof. ASHISH VERMA]

DEPARTMENT OF PHYSICS