# http://dtemaharashtra.gov.in/emisweb/UploadImage/DisplayImg.ashx?id=SSJ150396**Name:**  **Dr. Sanjay Shrinivasrao Jamkar**

**Designation: Professor of Applied Mechanics**

**Date of Birth: 31-05-1962**

**Email:** **ssjamkar@yahoo.com**

**Mobile: +91 94233 92448**

**Pan No. AAUPJ7428B**

**Qualification:**

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| Degree | Institute | University | Year of Passing | Class |
| B.E. (Civil) | Govt. College of Engineering, Aurangabad | Dr. BAMU, Aurangabad | 1984 | First Division |
| M.E. ( Civil Structures) | Govt. College of Engineering, Aurangabad | Dr. BAMU, Aurangabad | 1993 | First Class with Distinction |
| Ph.D. in Civil Engineering | National Institute of Technology, Warangal | May-2006 |

**Teaching and Industrial Experience:**

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| Post Held | Organisation | Period |
| Assistant Engineer Gr.-II | Command Area Development Authority, Irrigation Department, Govt. of Maharashtra. | 28-03-1985 to 14-03-1996 (11 Years) |
| Lecturer in Applied Mechanics | Govt. College of Engineering, Aurangabad | 15-03-1996 to 29/05/2006 (10 years)  |
| Assistant Professor in Applied Mechanics | Govt. College of Engineering, Aurangabad | 30/05/2006 to 15/06/2007 and 9-7-2008 to 14/03/2009 |
| Assistant Professor in Applied Mechanics | Govt. College of Engineering, Karad | 16-06-2007 to 8-7-2008 |
| Associate Professor in Applied Mechanics | Govt. College of Engineering, Aurangabad | 15-03-2009 to 29-05-2014 |
| Professor in Applied Mechanics | Govt. College of Engineering, Aurangabad | Since 30-05-2014 |

**Research Experience:**

1. Deputed for PhD in Civil Engineering at National Institute of Technology, Warangal under Quality Improvement Programme of AICTE during 03-07-2001 to 02-07-2004. Submitted the thesis titled ,”A study on shape and texture of coarse aggregate as a parameter for concrete mix proportioning” and the degree is awarded in May’2006.
2. Co- Principal Investigator for the project, two years duration, titled, “ Mix Proportioning of High Strength Concrete with Crushed Sand as Fine Aggregate”, sanctioned for Rs. 5.40 Lakhs under RPS scheme of AICTE during the financial year 2007-08
3. Research guide in the subject of Civil engineering under the faculty of Engineering and Technology, Swami Ramanand Teerth, Marathwada University, Nanded. Guided ONE Research Scholar.
4. Research guide in the Applied Mechanics Department, Govt. College of Engineering, Aurangabad. Guided One and Guiding One Research Scholar.
5. Co Research guide in the Applied Mechanics Department, Govt. College of Engineering, Aurangabad. Guided ONE Research Scholar.
6. Principal Investigator of Research Project, Evaluation of Shape Characteristics of Coarse Aggregates using Digital Image Processing, (TEQIP/R &D/Seed Money/Applied Mechanics/2014(02)) under Seed Money Grant of TEQIP-II vide GECA/ESTT/Dean (R&D)/2014/1189 Dt. 11.4.2014
7. Technical Advisor, for a Project on Innovative Technologies for Utilising Recycled Waste in Precast Concrete Applications by Econirmitee Infrastructure and Services Private Limited, Aurangabad
8. Guide of P.G. student, Mr. Chandrashekhar D. Wagh for dissertation (Influence of type of coarse aggregate on Rheological properties of High Strength SCC) carried out at IIT, Bhubaneshwar (7/6/2016 to 18/8/2016)

**Patents Registered/Awarded:**

1. Apparatus for Determining Dimensions of Aggregate Particles used in Concrete, **Registered as Design** with following details,

**Design No. 265756, Dated 18/09/2014**

**In the name of Govt. College of Engineering, Aurangabad, Dr. S.S. Jamkar, Ms.M.N. Mangulkar and Md. Vazeeruddin, Aurangabad**

1. Patent application No. 1454/MUM/2014, Titled “Method and Apparatus for Measuring Characteristics of Aggregates of Concrete Mass by Using Digital Image Processing” is filed and it is under review.

**Research Papers Reviewed:**

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| Sr. No. | Name of the Journal | Title of the Paper | Paper ID | Date of Submission of Review |
| 1 | Techno-Press, Korea | A new packing density model of concrete aggregate combination based on an artificial neural network | CAC11358C | 22/6/2012 |
| 2 | ACI Structural and Materials Journal, USA | New mixture proportioning method for flowing concrete mixtures | M-2015-145.R1 | 17/6/2015 |
| 3 | Indian Concrete Journal, India | Properties of ground granulated blast furnace slag based geopolymer concrete | 1401 | 03/6/2015 |
| 4 | Indian Concrete Journal, India | Mechanical properties of fly ash based geopolymer concrete with addition of GGBS | 1404 | 03/6/2015 |
| 5 | ACI Structural and Materials Journal, USA | Assessment of Packing Density Models and Optimising Concrete Mixtures | M-2015-461.R1 | 23/3/2016 |
| 6 | Indian Concrete Journal, India | Development of self compacting mortar mixes using agro based waste as a partial replacement to cement  | 1551 | 23/05/2016 |
| 7 | Techno-Press, KoreaAdvances in Concrete Construction, An International Journal | Effect of Fly Ash and GGBS Combination on Mechanical and Durability properties of GPC | ACC73012C | 26/05/2017 |
| 8 | Journal of Building Engineering, Elseveir | The use of particle packing models (PPMs) to design Structural Low Cement Concrete as an Alternative for Construction Industry | JOBE\_2018\_241 | 05/03/2018Date of Submission of Review: 12/04/2018 |
| 9 | International Conference on innovations in Infrastructure 18-19 may 2018 | Performance enhancement of columns by External FRP Strengthening technique- A Review | IC 18006\_170 | 13/04/2018 |
| 10 | International Conference on innovations in Infrastructure 18-19 may 2018 | Experimental study on translucent concrete using optical fibers and glass rods | IC 18004\_119 | 13/04/2018 |
| 11 | International Conference on innovations in Infrastructure 18-19 may 2018 | Metakaoline- A sustainable solution for infrastructure development | IC 18006\_235 | 13/04/2018 |
| 12 | International Conference on innovations in Infrastructure 18-19 may 2018 | Experimental and analytical investigation on shear strength of concrete containing slag considering sustainable development and waste management concept | IC 18005\_214 | 13/04/2018 |

**Expert Lectures Delivered:**

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| Sr. No. | Subject | Organising Institute | Date |
| 1 | Some aspects in Concrete Mix Design | The Institution of Engineers (I), Aurangabad Local centre and Jawaharlal Nehru Engineering College, Aurangabad | 14.10.2005 |
| 2 | Manual of Procedures in Laboratory Testing, A training Programme for Zilla Parishad Engineers (Pradhan Mantri Gram Sadak Yojna) | Department of Civil Engineering, GCE, Aurangabad Sponsored by NRRDA, Ministry of Rural Development, GOI, New Delhi. | 7th to 12th May, 2007 |
| 3 | Tests and properties of constituents of Concrete, Concrete Mix design as per IS 10262, IRC 44 | Regional Training Centre, Water Resources Division, Irrigation Department, Aurangabad | 07-09-2010 |
| 4 | Induction training course for newly recruited A.E.-II (Civil), Quality Assurance regarding concrete works, Concrete Mix Design, IS 456-2000 | Regional Training Centre, Water Resources Division, Irrigation Department, Aurangabad | 06-12-2010 |
| 5 | Expert lecture on Mix Design of Concrete as Resource person in AICTE Sponsored SDP on Advanced Developments in Concrete (11-24, July 2011) | SRIT, Coimbatore (TN) | 20-07-2011 |
| 6 | Expert lecture on Concrete Technology and Mix Design for Junior Engineers, Civil Engineering Assistants | Maharashtra Rural Roads Development Association, Office of the S.E.(PMGSY), Aurangabad  | 17-08-2011 |
| 7 | Special lectures on Applied Mechanics | SGGSIET, Nanded | 3rd to 6th January, 2013 |
| 8 | Key note speaker, One day Workshop on Concrete Mix Design on 22/3/13 Topic: Various Aspects of Concrete Mix Design | MIT, Aurangabad | 22-03-2013 |
| 9 | One day Workshop on Testing of Ingredients of Concrete for Concrete Mix Design and Mix Design as per IS 10262-2009 on 10/10/13  | MIT, Aurangabad | 10/10/2013 |
| 10 | Speaker, Technical event on Use of Artificial Sand in Construction Industry on 4/12/13Venue: Hotel Ajanta Ambassador | Indian Society of Structural Engineers, Aurangabad Local Center & A.B. Lodha (Manufacturers of Artificial Sand, Rasulpura, Jatwada Road, Tq. Khultabad, Aurangabad) | 4/12/2013 |
| 11 | Key Note Speaker in Structural Engineering Convention (SEC 2014), Dept. of Civil Engineering, IIT Delhi during 22-24, December, 2014  | Structural Engineering Convention (SEC 2014), Dept. of Civil Engineering, IIT Delhi  | 22-24, December, 2014 |
| 12 | Expert lecture for newly recruited Assistant Engineer Gr.II, Water Resources Department, Govt. of Maharashtra | Regional Training Centre (Water Resources), WALMI, Aurangabad | 5-11-2015 10:00 to 13:15 Hrs |
| 13 | Expert Lecture Delivered in the Workshop on Intellectual Property Rights and Innovation in Engineering  | JNEC, Aurangabad | September 11-12, 2015 |
| 14 | Expert Lecture Delivered in Two Days National Workshop on Innovations, Inventions and Patents IIAP-2016  | Govt. College of Engineering, Aurangabad (Under T.E.Q.I.P.-II) | 1-2 February, 2016 |
| 15 | Speaker, A National Level Seminar on Advances in Civil Engineering“Concrete Mix Proportioning and Innovations” | Dr.D.Y. Patil School of Engineering and Technology, Charholi, Lohgaon, Pune | 11-12 February, 2016 |
| 16 | Resource person, One Day Workshop on Concrete Mix Design and Durability Aspects | Department of Civil Engineering,Sanjivani Rural Education Society’s College of Engineering, Kopargaon, Dist. Ahmednagar | 14th March, 2016 |
| 17 | Speaker, One day workshop on “Advances in Concrete Technology” and conducted 1.5 hr. session on “Concrete Mix Design and Introduction to Particle Packing Theories”  | MGM’s, Jawaharlal Nehru Engineering College, Aurangabad  | 21st October, 20163.15 pm to 4.45 pm |
| 18 | Keynote lecture on High Performance Concrete for Engineers, Architects and Contractors | UltraTech Technical Meet 2016, Hotel Saffron, Jalna | 12th December 2016 at 6.30 pm |
| 19 | Expert lecture on “ Fundamental Aspects of HPC and its Applications” in a Two Days State level Workshop on “ Study of Special Types of Concrete and its Applications.  | Department of Civil Engineering,Sanjivani Rural Education Society’s College of Engineering, Kopargaon, Dist. Ahmednagar | 12-13 January, 2018 |
| 20 | One day Workshop on Quality Control | Assistant Engineer, Gr.1, Quality Control Sub Division No. 4, Aurangabad (Irrigation Department) | 05th October 2018(11.30-12.30) |

**Expert Lectures Coordinated:**

1. Arranged Expert Lectures to impart Diversified Exposure to the First Year Engineering Students during Induction programme (21-26 May 2018)

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| --- | --- | --- | --- |
| Sr. No. | Name of the Expert | Affiliation | Topic |
| 1 | Prof. Dasoo Vaidya  | Prof. of Marathi, Dr. B.A.M.U., Aurangabad | Language and We  |
| 2 | Shri. Shivprasad Jajoo  | IndustrialistPawan Group of Industries, Waluj, Aurangabad | Entrepreneurship: An Art by itself |
| 3 | Prof. Sharad Bhogle | Freelance Motivator and Former Professor, WALMI, Aurangabad | Multifaceted Personality: A Need of the Hour  |
| 4 | Shri. Pradeep Gawande  | Agriculture Economist, Amaravati | Agriculture, Industry and Yuth Power  |
| 5 | Shri. Bhaskarrao Pere  | Social Activist,Patoda Dist. Aurangabad | Rural Development: Engineer’s Participation  |

**Jury Member for Competitions/ Session Chairman for Conferences :**

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| **Sr. No.** | **Details of Activity** | **Organising Institute** |
| 1 | Outstanding Concrete Structure Awards-2014 for Marathwada Region. | Association of Civil Engineers (Practicing), Aurangabad and UltraTech Cement |
| 2 | Outstanding Concrete Structure Award-2015 for Marathwada Region. | Association of Civil Engineers (Practicing), Aurangabad and UltraTech Cement |
| 3 | Outstanding Concrete Structure Award-2016 for Marathwada Region. | Association of Civil Engineers (Practicing), Aurangabad and UltraTech Cement |
| 4 | Session Chairman for International Conference on Technological Innovations in Engineering and Management (ICTIEM-2018) on 26-27th Feb 2018 | Deogiri Institute of Engineering and Management Studies (DIEMS), Aurangabad |

**Membership of Professional Bodies: (LM – Life Member)**

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| Sr.No. | Professional Organisation | Membership Number | Category |
| 1 | American Concrete Institute, India Chapter | 99-077 | LM |
| 2 | Indian Concrete Institute  | 5752 | LM |
| 3 | Indian Society of Technical Education | 45424 | LM |
| 4 | Indian Water works Association | 004969 | LM |
| 5 | The Institution of Engineers (India), Kolkata | 131990/0 | MIE |
| 6 | Indian Society of Structural Engineering | M-1214 | Member |
| 7 | Alumni Association of Govt. College of Engineering, Aurangabad | CE 01198407 | LM |

#### **Administrative Responsibilities:**

1. Member of Senate, GCE, Aurangabad
2. Magazine Secretary for Tantrasangam-2008 at GEC, Karad
3. Testing and Consultancy projects undertaken by the department
4. Joint Controller of Examinations
5. Organising Committee member, International Conference on Innovative World of Structural Engineering (25th to 27th Dec, 2010)
6. Associate Dean Academics, GCE, Aurangabad
7. Controller of Examinations (Vide order No. GECA/EST-1/2013/4094, Dt. 26/11/13) 30-11-13 pm to 4/10/2016 pm
8. Dean PG vide Office Order No. GECA/Est-1/2017/248, Dt.20/01/2017
9. Member BOS (BE/BTech Civil Engineering) vide Marathi Letter No. BOS./Engineering and Tech./Appointment/6787-97 Dt. 20/1/2017
10. Dean (Research and Development) vide Office Order No. GECA/Est/Deans/2576 Dated 18/07/2017

**Major Consultancy Works:**

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| **Sr. No.** | **Title of Consultancy Work** | **Organisation** | **Amount** | **Receipt with Date** | **Consultants** |
| 1 | Non Destructive Test of Pier No. C 05 and C 06 of Bridge at Kranti chowk, Aurangabad | Mr. J.P. Bhandari,Consulting Civil Engineer,Aurangabad | Rs. 20074/-  | R.No. 5072675 Dt. 26/12/2011 and 5072708 Dt. 29/12/2011 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 2 |  Non Destructive Testing of Existing RCC Columns at NRB, MIDC, Waluj, Aurangabad | Shri. Prashant Gadgil,Senior Engineer, Design Group,Aurangabad | Rs. 44120/- | HDFC Bank cheque No. 541339 Dt. 12/11/2011 subject to realisation. | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 3 | Non Destructive Test of Slabs of Row Houses of  Amrut Developers, Paithan Road, Aurangabad | M/S Tulsi Buildcon,MIDC, Chikalthana,Aurangabad | Rs. 11030/-  | R.No. 4632132 dated 25/07/2011 and 4631102 dated 05/08/2011 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 4 | Non Destructive Test of Columns, Residential complex at Chikhalthana, Aurangabad | Mr. R.C. Sharma,Project Manager,Trident Infra Build LLP,Aurangabad | Rs. 8824/- Rs. 4412/- Rs. 4964/- .  | R.No. 5072954 Dt. 10/10/2011R.No. 4231184 Dt. 25/8/2011 R.No. 4627372 Dt. 1/7/2011 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 5 | Scrutiny of RCC design of structures at Paithan 1. Toilet block at Paithan,
2. Rakshakund, Retaining walls (5 No.) and view point with retaining wall
3. Waiting and Dashkriya Hall at Paithan
 | The Executive Engineer,Maharashtra Jeevan Pradhikaran,Urban and Rural Division,Aurangabad | Rs. 56180/-  | SBI Cheque No. 777573 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 6 | Structural Audit of Showroom for Mahindra and Mahindra, Chikhalthana, MIDC, Aurangabad | Mr. Rajendra Shukla,Group General Manager,Ratnaprabha Motors,MIDC, ,Aurangabad | Rs. 1,12,360/-  | Saraswat Bank cheque no. 039397 dated 4/7/2012 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 7 | Testing of existing building to ascertain soundness of concrete and reinforcement section of Main plant at IPCA Unit 2 at Waluj, MIDC, Aurangabad | Landmark Consultants,8-2, Ekata Society, Himayat Nagar,Aurangabad | Rs. 77916/-  | Receipt Dated 17/02/2014 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 8 | Structural Audit of Hutatma Jagannath Vegetable Market, Vaijapur, Dist. Aurangabad | The Chief Officer,Municipal Council,Vaijapur, | Rs. 27,025/- |  Receipt number 7665820 dated 21/06/2017 | Dr. S.S. Jamkar , Dr. M.G. Shaikh and Dr. P.B. Murnal |
| 9 | Structural Audit of Elevated Water Tank of 9.0 Lakh Litre Capacity at Mondha Market, Vaijapur Dist. Aurangabad | The Chief Officer,Municipal Council,Vaijapur,Dist. Aurangabad | Rs. 28,750/- | Receipt number 7665819 dated 21/06/2017 | Dr. S.S. Jamkar , Dr. M.G. Shaikh and Dr. P.B. Murnal |
| 10 | Structural Audit of the Building of Aurangabad District Co-Operative Milk Producer’s Union Ltd., City Survey No. 13789, Jalna Road, Aurangabad | The Managing Director,Aurangabad District Co-Operative Milk Producer’s Union Ltd., Aurangabad | Rs. 42480/- | Aurangabad District Central Cooperative Bank Cheque No. 41351 Dt. 7/8/2017. | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 11 | Proof checking of structural design of Decorative Entrance Arch Gate at Shendra (5 Star) Industrial Area. Aurangabad | The Deputy Engineer,MIDC Sub Division, Aurangabad 431136 |  Rs. 17700 including GST of Rs. 2700/-  | R.No. 7815868 Dated 16/10/2017 | Dr. S.S. Jamkar and Dr. P.B. Murnal |
| 12 | Structural Audit of shop, Poona Automobiles, at Shahaganj Area, Aurangabad | Mr. Surendrajit Singh Sabarwal,Poona Automobiles,Shahaganj Area,Aurangabad | Rs. 11800 including GST | Punjab & Sind Bank Cheque No. 000061 dated 04/06/2018 | Dr. S.S. Jamkar |

**List of ME (Structural Engineering) Dissertations**

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| --- | --- | --- | --- |
| Sr. No. | Title of Dissertation | Name of the Student | Year of Submission |
| 1 | Interaction diagram for hexagonal and octagonal shaped column | Mrs. R.A Sarda | 1999-00 |
| 2 | Retempering of fly ash concrete using superplasticiser | Mr. S.T. Bidgar | 1999-00 |
| 3 | Optimal Design of intz water tank | Mr. C.V. Nandanwar | 1999-00 |
| 4 | Experimental study of concrete using foundry slag as coarse aggregate | Mr. S.R. Patil | 2000-01 |
| 5 | Analysis of plane frame with shear wall for seismic forces  | Mr. S.R. Puri | 2000-01 |
| 6 | Behavior of ferrocement in uniaxial compression, tension and beding  | Mrs. S.R. Masalge | 2000-01 |
| 7 | Application of artificial neural network in concrete mix proportioning | Mrs. M. N. Mangulkar | 2005-06 |
| 8 | Analysis and design of cold formed and hot rolled steel roof trusses | Mr. S.A. Kulkarni | 2005-06 |
| 9 | Flow and strength characteristics of fly ash based geopolymer mortar  | Mr. S.V. Patankar | 2005-06 |
| 10 | Proportioning of flyash based concrete considering workability and strength  | Mr. A.K. Mallya | 2005-06 |
| 11 | Mix design of concrete based on Andreasen model of particle packing | Mr. Pande Shantanu | 2006-07 |
| 12  | Modeling initial design process of two span continuous beam using Artificial Neural Network | Mrs. Deshingkar N.G. | 2006-07 |
| 13  | Study on influence of rice husk ash on strength and workability of concrete | Mr. Ghumare S. M. | 2006-07 |
| 16 | Dynamic analysis of composite structures | Mr. Chisti Iliyas | 2006-07 |
| 14 | A study on effect of quality of water on properties of concrete | Mr. G.K. Patil | 2006-07 |
| 15 | Mix proportioning of concrete with crushed sand and fly ash | Mr. Karanjikar S.L. | 2006-07 |
| 16 | Modeling Initial Design Process of Columns using Artificial Neural network | Miss. Whatte Archana G. | 2007-08 |
| 17 | A Study of Seismic Evaluation and Retrofitting of Existing RC Building  | Mr. Tikle S.V. | 2008-09 |
| 18 | Seismic Behaviour of Masonry Infilled Reinforced Concrete Frame | Mr. Ghadge P. P. | 2008-09 |
| 19 | Prevention of Progressive Collapse of RC Frame Subjected to Earthquake Loading | Mr. Kadam Rahul A. | 2009-10 |
| 20 | Shear Strength of Self Compacting Concrete with Crushed Sand and Fly Ash | Mr. Shinde Bhushan H. | 2009-10 |
| 21 | Prediction of Compressive Strength of Concrete using Combination of Non Destructive Tests  | Mr. Milind Patil | 2011-12 |
| 22 | Comparative Study of Seismic Analysis of Ground Supported Rectangular tank | Mrs. Aditi Kulkarni | 2011-12 |
| 23 | Fly Ash and Silica Fume based Concrete Mix Proportioning as per IS: 10262-2009 | Mr. Izhar Ahmed | 2011-12 |
| 24 | Study of Shrinkage Characteristics of Fly Ash Concrete | Mr. Shinde Sudhir D. | 2012-13 |
| 25 | Properties of Fly Ash Concrete Modified with Ultra Fine Slag and Lime | Mr. Solanke Rahul D. | 2012-13 |
| 26 | Critical Appraisal of IS 456-2000 and ACI 318-08 in view of flexural Shear | Miss. Neha Anil Choudhari | 2012-13 |
| 27 | Mechanical Behaviour of High Strength Concrete by using Different Types of Fibres | Mr. Rahul Pandit | 2013-14 |
| 28 | Mix Proportioning of Standard and High Strength Conctrete with Crushed Sand as Fine Aggregate | Mr. Mahadik Devendra Ravindra | 2013-14 |
| 29 | Comparative Study of Analysis of Buildings of Various Sizes Under Wind Load as per IS 875 (Part 3) and ASCE 7-02 | Mr. Lodhi Saad Ahmed Khan | 2014-15 |
| 30 | Impact Resistance of High Strength Steel Fiber Reinforced Concrete (HSFRC) | Mr. Kushal R. Jaiswal | 2014-15 |
| 31 | Mechanical Properties of High Strength Geopolymer Concrete | Mr. Naveed Akhtar Javeed hasan | 2015-16 |
| 32 | Comparative Study of Mix Proportioning of High Strength Concrete using, ACI, DOE and Particle Packing Theory | Mr. Anand B. Zanwar | 2015-16 |
| 33 | Comparison of Performance of Steel-Concrete Composite and RCC Building Using Pushover Analysis | Mr. Nileshkumar V. Ganwani | 2015-16 |
| 34 | Study of Bond Strength of High Strength Concrete | Mr. Shaikh Zubair | 2015-16 |
| 35 | Influence of Coarse Aggregate Types and Cementitious Materials on Rheological and Mechanical Properties of High Strength SCC | Mr. Wagh Chandrashekhar D.  | 2016-17 |

**Research Paper Publications:**

 **International Journal:**

1. S.S. Jamkar and C.B.K.Rao, Index of Aggregate Particle Shape and Texture of Coarse Aggregate as a Parameter for Concrete Mix Proportioning, Cement and Concrete Research, Elsevier Ltd., 34(11) (2004), pp. 2021 – 2027.
2. Patil G.K., Jamkar S.S. and Sadgir P.A., Effects of Chemicals as Impurities in Mixing Water on Properties of Concrete, International Journal of Research in Chemistry and Environment, 1(1), July 2011, pp. 35-41. ISSN 2248-9649 (Online)
3. Shinde B.H. and Jamkar S.S. (2011)**,** “Shear strength of self compacting concrete with river and crushed sand”, International Journal of Research in Engineering Science & Technology (INJOREST), Vol.-SP-1(Civil Engg), Issue-1, Jan-Jun 2011, pp : 01-06.
4. Izhar Ahmed and S.S. Jamkar, Effects of Fly Ash on Properties of Concrete as per IS 10262-1982, IOSR Journal of Mechanical and Civil Engineering, 4(2), Nov-Dec-2012, pp 1-5
5. A.S. Kasnale and S.S. Jamkar, Analysis of Lateral Stiffness for Infilled Frame with Opening, Int. Journal of Advanced Technology in Civil Engineering, ISSN 2231-5721, 1(3), 2012, pp 23-26
6. Patankar S.V. Jamkar S.S. and Yuvraj M. Ghugal, Effect of water to geopolymer binder ratio on the production of fly ash based geopolymer concrete, International Journal of Advanced Technology in Civil Engineering,ISSN 2231-5721, 2(1), 2013, pp. 79-83
7. M N Mangulkar and SS Jamkar, Review of Particle Packing Theories Used For Concrete Mix Proportioning , International Journal of Scientific and Engineering Research,4(5), 2013, pp 143-148
8. A.S. Kasnale, Dr. S.S. Jamkar, Study of Seismic Performance for Soft Basement of RC Framed Buildings, IOSR Journal of mechanical and Civil, ISSN 2278-1684, Vol. 5, 2013, pp 47-51
9. Amruta G. Whatte and S.S. Jamkar, Comparative Study of Design of Steel Structural Elements by Using IS 800-2007, AISC 13th Edition and BS: 5950, 1: 2000, Int Journal of Science and Modern Engineering, ISSN 2319-6386, 1(9), August 2013, pp 8-12
10. Rahul D. Pandit and S.S. Jamkar, Mechanical Behaviour of high Strength Fibre Reinforced Concrete, Int. Journal of Engineering Research and Applications, ISSN 2248-9622, 3(6) Nov-Dec-2013, pp 1-5
11. Rajesh T. Peche, Dr. Sanjay S. Jamkar, Dr. Parag A. Sadgir, “ Influence of Grey Water as Mixing Water on Properties and Strength of Cement”, International Journal of Technology Enhancements and Emerging Engineering Research, Vol 3, Issue 05, ISSN 2347-4289, 56-61
12. Rajesh T. Peche, Dr. Sanjay S. Jamkar, Dr. Parag A. Sadgir, “Feasibility Study of Grey Water for Mixing Cement and Mortar”, International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research and Development (IJCSEIERD) ISSN(P): 2249-6866; ISSN(E): 2249-7978 Vol. 5, Issue 5, Oct 2015, 89-98
13. K. J. Kucche, Dr. S.S. Jamkar, Dr. P. A. Sadgir, Quality of Water for Making Concrete: A Review of Literature, International Journal of Scientific and Research Publications, Volume 5, Issue 1, January 2015, 1-10ISSN 2250-3153
14. Lodhi Saad Ahmed Khan and S.S. Jamkar, Comparative Study of Analysis of Buildings of Various Sizes under Wind Load as per IS 875 (Part 3) and ASCE 7-02, Int.Journal of Emerging Technology and Advanced Engineering, 5(5), May 2015, pp 465-470 ISSN 2250-2459
15. Naveed Akhtar, S.S. Jamkar, Effect of Fly Ash Content on Properties of Geopolymer Concrete (GPC), International Journal Of Engineering, Education And Technology (ARDIJEET), ISSN 2320-883X, Volume 3, Issue 2, 01/04/2015 pp 1-10
16. Kushal R. Jaiswal and Sanjay S. Jamkar, A Study on Effect of Steel Fibers on Impact Resistance of High Strength Steel Fiber Reinforced Concrete ( HSFRC) Subjected to Drop Weight Test, Int. Journal for Scientific Research and Development,2015, 3(9), pp 839-842 ISSN 1321-0613
17. Shaikh Mohd. Zubair and S.S. Jamkar, Experimental Investigation on Effect of Mineral Admixtures on High Performance Concrete with Various W/B Ratios, IJRET: International Journal of Research in Engineering and Technology, eISSN: 2319-1163 | pISSN: 2321-7308,Volume: 04 Issue: 08, August-2015, pp 169-177
18. Mangulkar M.N. and Jamkar S.S., Digital Image Processing Based System for the Characterisation of Coarse Aggregate, Jordan Journal of Civil Engineering, Volume 10(1), 2016 pp 29-39. ISSN 1993-0461
19. Anand B. Zanwar and S.S. Jamkar, Study of ACI and DOE Mix Design Methods for High Strength Concrete using Crushed and Uncrushed Aggregate IJSRD - International Journal for Scientific Research & Development Vol. 4, Issue 04, 2016 ISSN (online): 2321-0613, pp 1523-26
20. Nileshkumar. V. Ganwani S .S. Jamkar, Comparative Study on RCC and Steel-Concrete Composite Building using Linear Static Analysis, IJSRD - International Journal for Scientific Research & Development, Vol. 4, Issue 02, 2016 , ISSN (online): 2321-0613, pp 213-216
21. C.D. Wagh, S.S. Jamkar, Effect of Silica Fume on Mechanical and Fresh properties of High Strength Self Compacting Concrete, IJSRD - International Journal for Scientific Research & Development| Vol. 4, Issue 10, 2016 | ISSN (online): 2321-0613, pp 738-42
22. S. V. Patankar, S. S. Jamkar and D.D. More, Effect of Concentration of Alkaline Solutions on the Development of Geopolymer Mortar, International Journal of Engineering Technology, Management and Applied Sciences (IJETMAS), January 2017, Volume 5, Issue 1, ISSN 2349-4476, pp 114-122

**National Journal:**

1. K.A.Patil, P.M. Nikam and S.S. Jamkar, Role of Different Authorities in Infrastructure Development, Journal of Indian Building Congress, Vol.5, No.1, 1998, pp. 196-198.
2. Patankar S.V. Jamkar S.S. and Yuvraj M. Ghugal, Effect of sodium hydroxide on flow and strength of fly ash based geopolymer mortar, Journal of Structural Engineering, 39(1) April-May 2012, pp. 43-47
3. Jamkar S.S., Ghugal Y.M. and Patankar S.V., Effect of f ly ash f ineness on

 workability and compressive strength of geopolymer concrete, Indian Concrete

 Journal, 87(4) April 2013, pp. 57-62

1. SV Patankar, YM Ghugal, SS Jamkar ,[Effect of Concentration of Sodium Hydroxide and Degree of Heat Curing on Fly Ash-Based Geopolymer Mortar](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=AiapqssAAAAJ&citation_for_view=AiapqssAAAAJ:Y0pCki6q_DkC), Indian Journal of Materials Science, Hindawi Publishing Corporation, Volume 2014, pp 1-6
2. Shaikh M. Zubair and S.S. Jamkar, Study of bond strength of high strength concrete, Indian Concrete Journal, ISSN 0019-4565 Vol. 90, No.12, December 2016, pp 33-37
3. Shadani G.J. and Jamkar S.S., Analytical Study on Performance of Brick Infilled Rc Frame Seismic Retrofitted with Fibre Reinforced Polymer, Journal of Applied Science and Computations (JASC), ISSN 0076-5131, Vol. 5, No. 7, pp 1-8

**International Conference:**

1. S.T. Bidgar and S.S. Jamkar, Retempering of Fly Ash Concrete using Superplasticisers, Proceedings of the Second International Conference on Fly Ash Disposal and Utilisation, Feb 2-4, 2000, CBIP, New Delhi.
2. P.R. Kumar, S. Srinivasan, N.E.D. Murthy and S.S. Jamkar, Superplasticisers in High Strength Mortars for Use in Ferrocement Works, 26th International Conference on Our World in Concrete and Structures, August 27-28, 2001, Singapore
3. S.S. Jamkar and C.B.K. Rao, Morphology of Aggregates for Concrete- A State of the Art Review of Methods of Evaluation, Proceedings of International Conference on Construction Management and Materials (CONMAT-2003), January 9-11, 2003, IIT, Kharagpur, pp.583-594.
4. G.K. Patil, S.S. Jamkar and P.A. Sadgir, Effect of Concentration of CaSO4 in Mixing Water on Properties of Concrete, 3rd Conference for the International Congress of Chemistry and Environment, November 18-20, 2007, Kuwait
5. Patankar S.V. and Jamkar S.S., Effect of Various Parameters in Activation of Fly Ash Based Geopolymer Mortar, Proceedings of International Conference ICACC-2008, February 7-9, 2008, Vasavi College of Engineering, Hyderabad, pp 270-279.
6. G.K. Patil, S.S. Jamkar and P.A. Sadgir, Effect of Concentration of NaOH in Mixing Water on Properties of Concrete, Proceedings of Indo-Italian Conference, ETWMT-09, December 3-4, 2009, MAEER’s MIT College of Engineering, Pune and Maharashtra Institute of Technology, Pune, pp 495-499.
7. Patankar S.V. and Jamkar S.S, Effect of Temperature Curing on Flow and Strength of Fly Ash Based Geopolymer Mortar, Proceedings of International Conference on Innovative World of Structural Engineering, (ICIWSE-2010 Decemeber 25-27, 2010), Govt. College of Engineering, Aurangabad, pp 490-495.
8. G.K. Patil, S.S. Jamkar and P.A. Sadgir, Assessment of Effect of Ferrous Sulphate as Impurity in Mixing Water on Properties of Concrete, Proceedings of International Conference on Innovative World of Structural Engineering, (ICIWSE-2010 Decemeber 25-27, 2010), Govt. College of Engineering, Aurangabad, pp 528-532.
9. Gahdge P.P. and Jamkar S.S., Seismic Behaviour of Masonry Infilled Reinforced Concrete Frame, Proceedings of International Conference on Sunrise Technologies (iCost-2011) January 13-15, 2011, SSVPSBSD College of Engineering, Dhule (MS), India, pp CE-4.10.1-6
10. Patankar S.V., Jamkar S.S. and Ghugal Y.M., Effect of Highly Alkaline Solution on Flow and Strength of Fly Ash Based Geopolymer Mortar, Proceedings of International Conference on Sunrise Technologies (iCost-2011) January 13-15, 2011, SSVPSBSD College of Engineering, Dhule (MS), India, pp CE-1.18.1-5
11. SV Patankar, YM Ghugal and SS Jamkar, Mix Design of Fly Ash Based Geopolymer Concrete, Presented in Structural Engineering Convention 2014, IIT Delhi and Published in the proceedings, Advances in Structural Engineering, pp 1619-1634
12. R.T. Peche, Dr. S.S. Jamkar, Dr.P.S.Sadgir “Grey Water- A Potential Source of Water for Construction”, International Conference on Advances in Engineering & Technology – 2014, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X PP 12-17
13. Rajesh T. Peche, Dr. Sanjay S. Jamkar, Dr. ParagA.Sadgir, “Grey Water- A Prospective Alternative to Water for Construction”, Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET’2014), ISBN No.: 978-93-5107-222-5, Date :28-30 March, 2014, Elsevier Publication, 2014.

**National Conference/ Seminar/ Workshop:**

1. P.M. Nikam, S.S.Jamkar, K.A. Patil and P.A. Jaiswal, Behavior of Concrete Hollow Block Masonry in Compression, Proceedings of the Workshop on Recent Advances in Masonry Construction, September 18-19, 1998 organised by the Institution of Engineers (India), Roorkee Local Center, pp. 275-279.
2. P.M.Nikam, P.A. Jaiswal, S.S. Jamkar and K.A. Patil, Retempering of Concrete with Superplasticisers for Achieving Higher Strength and Workability, Proceedings of the National Seminar on Cement Content and Parameters for Durability of Concrete organised by Maharashtra India Chapter of ACI, Mumbai, September 25-26, 1998, pp. 110-112.
3. S.S. Jamkar and C.B.K.Rao, IS: 10262, Recommended Guidelines for Concrete Mix Design- A Critical Review, Proceedings of National Conference on Advances in Construction Materials (AICM-2002), April 8-9, 2002 at REC, Hamirpur, pp. 244-249.
4. P.Rathish Kumar, N.R. Dakshina Murthy and S.S. Jamkar, Non Destructive Techniques for Quality Control and Assurance, Proceedings of National Conference on Advances in Construction Materials (AICM-2002), April 8-9, 2002 at REC, Hamirpur, pp. 257-263.
5. S.S. Jamkar and C.B.K. Rao, Effect of Shape and Texture of Coarse Aggregate on Compressive Strength of Concrete, Proceedings of the National Conference on Materials and Structures (MAST), January 23-24, 2004 at NIT, Warangal, pp.193-196.
6. S.S. Jamkar and C.B.K. Rao, Characterisation of aggregates for concrete – indirect

 methods of evaluation, Proceedings of National conference on Recent Advances in

 Structural Engineering (RASE), September 9, 2004, JNTU College of Engineering,

 Anantpur (AP), pp. 280-290.

1. Patankar S.V. and Jamkar S.S., Fly ash concrete activated by alkaline activators,

##  Proceedings of the second National Conference on Advances in materials and

##  mechanics of concrete structures (NCAMMCS), August 12-13, 2005, Indian Institute

##  of Technology, Madras, Chennai, pp. 64-70.

1. Shinde S.B., Jamkar S.S., Behavior of Ferrocement in Direct Compression and bending, Proceedings of the National Conference on Recent Advances in Structural Engineering (NCRASE), February 11-12, 2006, JNTU, College of Engineering, Kakinada (AP)
2. Patankar S.V. and Jamkar S.S., Effects of Concentrations of Alkaline Elements on Activation of Fly Ash, Proceedings of the second National Conference on Materials and Structures (MAST) December 14-15, 2007, NIT, Warangal (AP)
3. Sanjay S. Jamkar and Milind A. Patil, Prediction of compressive strength using combination of NDT methods, Prestige GyanSandhan 2012, National conference on Recent Trends in Engineering and Science at, Prestige Institute of Engineering and Science, Indore (MP), 20-21 April, 2012.
4. Neha Choudhari and Jamkar S.S., Critical appraisal of IS 456-2000 and ACI 318-08 in view of shear in flexural members, presented and published in the proceedings of National Conference on “ Innovations in IT and Engineering” (IITE2k13) organized by Dept. of Computer Science, Sri Venkateswara University, Tirupati, A.P., India, April-20-22,2013
5. Rahul D. Solanke and S.S. Jamkar, Properties of Fly Ash Concrete, Proceedings of national Conference on Emerging Trends in Civil Engineering (NCETCE 2013), R.C. Patel Institute of Technology, Shirpur, Dist. Dhule, February 22-23, 2013.

**Courses Attended:**

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| --- | --- | --- | --- |
| Sr. No. | Name of the Course | Organised by | Period |
| Courses attended before 15-03-1996 while in Irrigation Department |
| 1) | Analysis and Design of Foundation | The Institution of Engineers (I) | Apr 15-27, 1985 **(two weeks)** |
| 2)  | Workshop on Micro computer Applications in Irrigation Water Management | WALMI, Aurangabad | Feb 15-20, 1988**(one week)** |
| 3) | Personality Development | Engineering Staff College, Nasik | Sept 10-13, 1988 |
| 4) | Workshop on use of IWM software developed by WALMI, Aurangabad | WALMI, Aurangabad | Dec 12-18, 1988**(one week)** |
| 5) | Workshop on using LOTUS 1-2-3 in Irrigation Water Management | WALMI, Aurangabad | Dec 11-16, 1989**(one week)** |
| 6) | State level training course on Command Area Development- Important Issues | Water and Power Consultancy Services (India) Ltd. | Nov 1-8, 1993 |
|  After 15-03-1996  |
| 7) | Short term course under the **QIP** Program on Finite Element Techniques for Geotechnical Engineers | Geotechnical Engg. Division, Civil Engg. Dept., IIT Madras  | 30/11 to 4/12/1998 **(one week)** |
| 8) | One Day Seminar on Improving Quality of Graduate and Diploma Engineering Education  | SGGS, Nanded, DTE-Mumbai, Engineering Education Foundation, Pune, and **ISTE** chapter SGGSCE & T, Nanded | Apr 26, 1999  |
| 9) | Short term course on Analysis and Design of Earthquake Resistant Structures | National Institute of Technology, Warangal (A.P.) | June 2-4, 2003 |
| 10) | Attended and presented paper in the National Conference  | National Institute of Technology, Warangal (A.P.)  | Jan 23-24, 2004 |
| 11) | Short term training programme on Structural Steel Design for University Faculty | INSDAG, **ISTE** and Dept of Civil Engineering, NIT, Warangal | 29-11 to 04-12-2004 **(one week)** |
| 12)  | STTP on Structural and Geo-technical aspects of Earthquake Resistance Design | Guru Nanak Dev Engineering College, Ludhiana (Punjab) and sponsored by **AICTE** | Dec 21-31, 2004**(Two weeks)** |
| 13)  | STTP on Energy Audit and Conservation | Govt. College of Engineering, Aurangabad and **ISTE** | January 17-21, 2005 **(one week)** |
| 14) | One Day Seminar on Rainwater Harvesting  | Indian Water Works Association , Aurangabad Centre | 11-03-2005 |
| 15) | Participated and Organised STTP on Open Source MySQL and PHP - 2005 | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | April 21-22,2005 |
| 16) | One day training workshop on MATLAB for Computer Engineers | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | Sept. 02, 2005 |
| 17) | Two days course on Design of RCC Liquid Storage Tanks | **IE(I), Pune Local Centre** and Dept of Applied Mechanics, PIET, Pune | Sept. 24-25, 2005 |
| 18) | Induction Training Programme for Engineering College Teachers  | National Institute of Technical Teacher’s Training and Research, Bhopal at Govt. College of Engineering, Aurangabad | Dec. 05-17, 2005**(Two weeks)** |
| 19) | STTP on “Modeling and Simulation of Engineering Systems in Multi Energy Domains: A Bond Graph Approach”  | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | Jan. 9-15, 2006**(one week)** |
| 20) | Management Development Programme on ‘Personal Effectiveness for Institutional Development | Welingkar Institute of Management, Development and Research under **T.E.Q.I.P.** | Jan. 23-25, 2006 |
| 21) | Two days Training Programme on Intellectual Property Rights (IPR) and Patenting in India and Abroad | K.E. Society’s Rajarambapu Institute of Technology, Rajaramnagar- 415414 under **T.E.Q.I.P.** | Jun. 26-27, 2006 |
| 22) | One week STTP under Services to Community and Economy of TEQIP on Renewable Energy Technologies | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | 16th to 20th January, 2007**(One Week)** |
| 23) | One day Seminar on Use of Crushed sand in concrete | KBP College of Engineering and Polytechnic, Satara | March-18, 2008 |
| 24) | STTP on Engineering Optimisation, EO-2010  | Govt. College of Engineering, Aurangabad and **ISTE** | 28 June to 9 July, 2010 **(Two Weeks)** |
| 25 | STTP on Genetic algorithm and Neuro Fuzzy Applications in Engineering, GANEUFAE-2010 | Govt. College of Engineering, Aurangabad and **ISTE** | 29 Nov. to 10 Dec, 2010 **( Two Weeks)** |
| 26 | STTP on Pedagogy | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | May 16-21, 2011**(one week)** |
| 27 | STTP on Soft Computing Tools and its Applications in Engineering (SOCTAPE-2011) | Govt. College of Engineering, Aurangabad and **ISTE** | 20 June to 01 July, 2011 **( Two Weeks)** |
| 28 | AICTE Staff Development Programme on Advanced Developments in Concrete  | Sri Ramakrishna Institute of Technology, Coimbatore sponsored by **AICTE, New Delhi** | 11.07.2011 to 24.07.2011**( Two Weeks)** |
| 29 | Two Week STTP on Skill Matrix Enhancement and Effective Teaching Learning for Quality Technical Education (SMEETL-2011) | Govt. College of Engineering, Aurangabad and **ISTE** | 28-11 to 9-12-2011**( Two Weeks)** |
| 30 | One Day Workshop on Intellectual Property and Patent Lifecycle Management (IPPLM-2012)  | Govt. College of Engineering, Aurangabad under CEP in Association with Inrex ITeS, Pune | 18-02-2012 |
| 31 | STTP on Finite Elements in Engineering | Govt. College of Engineering, Pune under **TEQIP** | 09.07.2012 to 13.07.2012 **(One Week)** |
| 32 | One Day Workshop on Self Management and Team Management for Success-Breaking the Barriers | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | 18-09-2012 |
| 33 | Short Course on Finite Element Method | Indian Institute of Technology, Hyderabad | 19-12-2012 to 21-12-2012 |
| 34 | Workshop on Patent and Copyright Policy of Govt. College of Engineering, Aurangabad, (Phase I) | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.-II** | 09-04-2013 |
| 35 | TEQIP-II Sponsored International Workshop on “Emerging Trends in Earthquake Engineering and Structural Dynamics | Indian Institute of Technology, New Delhi | 20-21st December 2014 |
| 36 | Structural Engineering Convention (SEC) 2014 | Indian Institute of Technology, New Delhi | 22-24th December 2014 |
| 37 | TEQIP-II sponsored One Day Workshop on Right to Information Act  | Govt. College of Engineering Aurangabad under **T.E.Q.I.P.** | 20.04.2015 |
| 38 | MHRD’s National Mission for teachers and Administrators- Management Capacity Enhancement Programme  | Indian Institute of Management Indore  | 02-08 February 2017 |
| 39 | Advanced course on “ Structural Health Monitoring Technologies for Critical Infrastructure (SHMTCI-2018) | CSIR-SERC, Chennai | 25-27 April 2018 |

 (Dr. S.S. Jamkar)

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