  **SELF APPRISAL**

**1. NAME :- Dr. SUREKHA ANIL BHALCHANDRA.**

**2. DESIGNATION :- LECTURER, APPLIED MECHANICS DEPARTMENT,  
 GOVERNMENT COLLEGE OF ENGINEERING,  
 AURANGABAD.**

**3**. **ADDRESS :-** T4, ‘Samarth’ Nr. Little Woods English,

New Pratap Nagar,

AURANGABAD. 431 005 (M.S.)

**4. Telephone/Cell No:-** 0240-2336552

**5.** **E-mail Address:** surekhab2007@ rediffmail.com.

**6.** **Date of Birth:** 06 - 06 - 1964

**7. Date of Joining Government Services:** 27 - 04 - 1998

**8.** **Date of Joining the Institute:**  02 - 11 – 2003

**9.** **GPF No.:** EDBN 14076

**10. Religion:** Hindu

**11. Bank Name:** State Bank of India   
 **Branch Name:** Dashmesh Nagar, Aurangabad.

**12.** **PAN No.:** AHEPB2924M

**13.** **Cast/Category:** Open

**14. Qualifications**

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| **Sr No.** | **Name of the examination (starting from graduation** | **University** | **Year of passing** | **Percentage of Marks** | **Division** |
| 1 | B.E. Civil | Marathwada University Aurangabad | 1986 | 61.40 % | First. |
| 2 | M.E (Civil-Structure) | Marathwada University Aurangabad | 1993 | 62.81% | First. |
| 3 | Ph.D. (Civil- Structure.) | Dr. B. A. Marathwada University Aurangabad | 2nd SEPT 2001 | - | - |

**15. Professional Experience**

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| **Sr. No** | **Name Of Employer** | **Designation** | **Duration** | **Total Years** | **Remark** |
| 1 | S.M.B. Polytechnic Ambajogai Dist. Beed | Lecturer | 11-8- 1986 to  4-6-1988 | 2 years |  |
| 2 | Vishnu Kunjar & Associates, Aurangabad | Structural Designer | 10-6-1988 to  31-8-1990 | 2 years |  |
| 3 | Marathwada Institute of technology Aurangabad | Lecturer | 3-9-1990 to  27-4-1998 | 7 years & 8 months. | Total Experience |
| 4 | Govt. Polytechnic Aurangabad | Lecturer | 27-4-98 to  1-11-2003 | 5 years & 7 months | = 29 years 4 months |
| 5 | Govt. Engineering College Aurangabad | Lecturer | 2-11-03 to  8-7-2010 | 6 years 8 months |  |
| 6 | Govt. Engineering College AMARAVATI | Asso. Prof | 9-7-2010 to  27-June 2011 | 1 year |  |
| 7 | Govt. Engineering College Aurangabad | Asso. Prof | 28-7-2011 | 4 years 5 months  Working |  |

**16. Research Interest**

1) Topic of M.E. Dissertation: “Study of Relation Between Electrical Resistivity and Compressive Strength of Concrete.” submitted to Marathwada University, Aurangabad in 1993 for the award of M.E. in Civil- structures.

2) Topic of Ph.D. work: “Analysis of Circular Cylindrical Shell by F.E.M.” submitted to Dr. B. A. Marathwada University, Aurangabad and the Ph. D. degree is awarded in Sept. 2001.

3) A Recognised P.G. and Research Guide.

**17. No. of Seminars / Conferences Workshops attended**

I have participated in following courses.

|  |  |  |  |  |
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| **Sr.No.** | **Name Of Course** | **Duration** | **Date and Year** | **Organised by** |
| 1 | N.S.S. skill developments | 2 Weeks | 18 Jan to 27 Jan 1991 | M.I.T., Aurangabad |
| 2 | Industry Institute Partnership | 3 Days | 24 to 26 Jan 1995 | M.I.T., Aurangabad |
| 3 | Technical Teacher Training | 4 Weeks | 15 April to 10 May 2002 | Govt. Polytechnic. Aurangabad |
| 4 | Computer applications | 2 Weeks | 17 to 29 June 2002 | Govt. Polytechnic. Yavatmal |
| 5 | Internet & Web Application development. | 2 Weeks | 26 Aug to 7 Sept 2003 | Govt. Polytechnic. Aurangabad |
| 6 | Energy, Audit & Conservation | 1 Week | 17 to 21 Jan 2005 | Govt. Engineering college Aurangabad |
| 7 | Modeling & Bond graph Approach Technology. | 1 Week | 1 Jan to 15 Jan 2006 | Govt. Engineering college Aurangabad |
| 8 | Efficient usage of Laboratory & Lab. Equipments for students | 1 Week | 21 to 27 Jan 2008 | By Asian Institute of Quality Management |
| 9 | Personal Effectiveness for Institutional Development | 3 Days | 27 to 29 Jan 2006 | N.L. Dalmia Institute of Management, Mumbai |
| 10 | Certified course in TQM | 1 Week | Oct 2007 | By Asian Institute of Quality Management |
| 11 | Managerial skill | 2 days | 20 to 21 Aug 2005 | Govt. Engineering college Aurangabad. |
| 12 | Workshop on Cyber Law for Faculty | 3 Days | 8 Sept 2006 | Govt. Engineering college Aurangabad |
| 13 | Lab- Manual Development | 3 days | 17 Feb to 19 Feb 2003 | T.T.I. Pune |
| 14 | Question Bank Development | 3 days | 28 to 30 Oct 2002 | T.T.I. Pune. |
| 15 | Design of RCC Liquid storage tanks | Two days | 24th and 25thSept 2005 | Institution of Engineers, Pune Local centre |
| 16 | Training programme on structural analysis and design of structures | 10 Days | 1st July to 11th July  2008 | VNIT Nagpur |
| 17 | Training programme on Engineering Optimization | 12 Days | 28th June to 9th July | Govt. Engineering college Aurangabad |
| 18 | Training Programme on skill matrix enhancement effective teaching-learning for quality technical education | Two weeks | 28th Nov to 9th Dec 2011 | Govt. Engineering college Aurangabad |
| 19 | Advanced Steel design | One week | 8th Oct to12th Oct 2012 | I.I.T. Delhi |
| 20 | Training Programme on Genetic Algorithm and Neuro Fuzzy Applications in Engineering | 4 Days | 17th to 21st Dec  2012 | Govt. Engineering college Aurangabad |
| 21 | Limit state design of steel structures | 4 Days | 12th to 15th July 2013 | MIT Aurangabad and Indian Society of Structural Engineers Aurangabad |
| 22 | Research Methodology and design of Experiments | 5 Days | 27th to 31st Oct 2014 | MNIT Jaipur |
| 23 | NBA Preparation | 2 Days | 20th to 21st Dec 2014 | Govt. Engineering college Aurangabad |
| 24 | Outcome based Education and NBA | 2 Days | 31st Jan to 1st  Feb 2015 | Govt. Engineering college Aurangabad |

**18. Membership of professional Bodies:**

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| **Sr No** | **Professional Organisation** | **Membership Number** | **Category.** |
| 1 | American concrete Institute, India chapter | LM.05.106 | Life Member |
| 2 | Indian Society of Technical Education | LM 12382 | Life Member |
| 3 | The Institution of Engineers (India) | M 135416 | Member of IE |

**19. Extra Activities:**

1) Worked as Departmental Controller of Examination.

2) Member of Departmental Subject Board.

3) Testing and Consultancy projects undertaken by the department.

4) Participation in development of Question Bank for II yr. conventional Course @ T.T.I., Pune.

5) Participation in Lab Manual development @ T.T.I., Pune.

6) Participation in preparing the syllabus for III yr. Engg. @ G.E.C., Aurangabad.

7) Worked as Dean PG

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**20). List of Papers Published in National and International Conference:**

The paper entitled **“Effect of Basalt Fiber on Mechanical Properties of Silica fume Concrete”** has been presented and published in the “International Conference IC-ISE 2015, osmania University, Hyderabad, india” in 2015.

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| **Sr No** | **Title of the Paper** | **Name of Authors** | **Seminar on** | **Organised by** | **Duration** | **Remarks** |
|  | Factors affecting the Durability of structures | Dr. S. A. Bhalchandra | Durability of structures | ING-IABSE New Delhi and PWD Govt. of Maharashtra | 2000 |  |
|  | Use of fiber reinforced soil as a sub-grade in highway construction | Dr. S.A. Bhalchandra and A.H. Bhalchandra | Financing design, construction, and operation of highway s | Govt. Engg. College Aurangabad | Aug 2002 |  |
| 3 | Performance of High Strength steel fiber reinforced concrete | Dr. ( Mrs.) S. A. Bhalchandra& Dr. Y.M.Ghugal | Recent Development in Structural Engineering. | Department of Civil Engineering Manipal Institute of Technology Manipal | 30,31 August &1 Sept.2007 | International Conference |
| 4 | Analysis of effect of DOF on stresses at crown node of circular cylindrical shell | Dr. ( Mrs.) S. A. Bhalchandra& Mr. A. H. Bhalchandra | ISTAM | I. I. T. Kharagpur | Dec 14 - 17, 2005 | International Conference |
| 5 | Analysis of circular cylindrical shell for dead load by finite element method | Dr. ( Mrs.) S. A. Bhalchandra | Recent advances in structural engineering | JNTU KAKINADA | 2006 | National Conference |
| 6 | Base Shear Comparison for ESR using various Codes | Dr. ( Mrs.) S. A. Bhalchandra& Dr. S.S. Jamkar | Recent Development in Structural Engineering. | Department of Civil Engineering Manipal Institute of Technology Manipal | 30,31 August & 1 Sept.2007 | International Conference |
| 7 | Performance of steel and polypropylene hybrid fiber reinforced concrete | Dr. ( Mrs.) S. A. Bhalchandra | Recent advances in structural engineering | Civil engg. dept. JNTU college of engineering | 2008 | National Conference |
| 8 | Pushover Analysis of Steel Frame Building | Dr. ( Mrs.) S. A. Bhalchandra&Jaydippardeshi | Science, Engineering & Sprirituality | S.E.S.College of Engineering, Navalnagar | 1,2 April 2010 | International Conference |
| 9 | Cost optimization of two way slab using ANN | Dr. ( Mrs.) S. A. Bhalchandra | Civil Engineering for Infrastructural development | Dept. of Civil Engg. D.Y.Patil college of engg. Akurdi Pune | 2010 | National Conference |
| 10 | Study of effect of steel fiber inclusion on geopolymer concrete | Dr. ( Mrs.) S. A. Bhalchandra and S.V. Fegade | Sustainable techniques in civil and environmental engineering | RIP Research India Publications.  International Journal of civil Engineering and Applicationss  ISSN 2249-426X  Volume 3, Number 6, 2013 | 2013 | International Conference |
| 11 | Use of semi rigid connections in steel structures- An Economical Aspect | Mr Shrikant N Pawar and Dr. S.A. Bhalchandra | Innovative techniques in civil engineering | J.T. Mahajan College of Engineering, Faizpur. | Feb 2011 | National Conference |

**21. List of Publications in Journals:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Title of the Paper** | **Author** | **Seminar on** | **Organised by** | **Duration** | **ISSN No Volume Page no** |
| 1 | Study of Relation Between Electrical Resistance of Fresh Concrete and its Compressive Strength | Dr S. A. Bhalchandra | ACI Bulletin of the Maharashtra Indian Chapter of ACI on "QUALITY". Vol. 14 No. 3 | Journal of ACI Bulletin of the Maharashtra Indian Chapter of ACI. | July - Sept. 1999 | ACI Bulletin of the Maharashtra Indian Chapter of ACI on "QUALITY". Vol. 14 No. 3 |
| 2 | Prediction of compressive strength of Hardened concrete and NDT of fresh concrete by electrical resistance | Dr S.A. Bhalchandra and A.H. Bhalchandra | Building construction technology for the new millennium | Indian Building Congress and PWD Tamilnadu | Oct 1999 |  |
| 3 | In Service Education and Training - Sandwich Courses. | Dr S. A. Bhalchandra | Education and Training of Building Professionals | Journal of Indian Building Congress | April 20 - 22, 2000 |  |
| 4 | Analysis of effect of DOF on stresses at crown node of circular cylindrical shell | Dr. S.A. Bhalchandra and A. H. Bhalchandra | - | IIT Kharagpur | Oct 2005 |  |
| 5 | Performance of steel fiber reinforced High Strength silica fume concrete. | Dr. Y.M. Ghugal and Dr. S. A. Bhalchandra | Methods, Materials and Machinery | Journal of CE and CR | Oct 2009 | Page no- 32-44 |
| 6 | Performance of High Strength steel fiber reinforced concrete | Dr S.A. Bhalchandra and Dr. Y.M. Ghugal | Methods, Materials and Machinery | Journal of CE and CR.  ISSN No- | Jan 2011 | Volume.24  ISSN No-0975-9034  Page no- 62-70 |
| 7 | Performance of High Strength steel fiber reinforced metakaolin concrete | Dr. S.A. Bhalchandra and Rajesh Shirale | Indian concrete journal | Journal of Indian Concrete.  ISSN No- | Aug 2011 | Volume.85No.8  Page no- 37-43 |
| 8 | Determination of properties of transversely isotropic lamina using micromechanics approach | Dr. S.A. Bhalchandra and Yashodhara.S.Shiradhonkar | Elixier Cement & concrete Composites 48 (2012)9588-9593 | Elixier Cement & concrete Composites 48 | 24-Jul-2012 | ISSN No-9588-9593  Page no- 1041-1046 |
| 9 | Performance of Steel Fiber Reinforced Self Compacting Concrete | Dr. Bhalchandra S.A. and Pawase Amit Bajirao | International Journal of Computational Engineering Research (IJCER) | IJCER | Aug-2012 | Volume.2  Page no- 1042-1046 |
| 10 | Cost optimization of doubly reinforced rectangular beam section | Dr. Bhalchandra S.A. and P.K. Adsul | International journal of modern Engineering research | IJMER | Sept.-Oct.2012 | Volume-2 Issue-5  ISSN No-2249-6645  Page no- 62-70 |
| 11 | Study of effect of steel fiber inclusion on geopolymer concrete | Dr. Bhalchandra S.A. and S.V. Fegade | International journal of civil engineering and applications. | IJCEA | June2013 | Volume.3  ISSN No-2249-426X  Page no- 56-60 |
|  |  |  |  |  |  |  |
| 12 | Properties of glass fiber reinforced geopolymer concrete | Dr. Bhalchandra S.A. | International journal of modern Engineering research | IJMER | Aug 2013 | Volume.3  ISSN No-2249-6645  Page no- 7-10 |
| 13 | Seismic Analysis of Reinforced Concrete Building with Soft First Storey | Dr. Mrs. Surekha A. Bhalchandra & Mr. Raghavendra S. Deshpande | International Journal of Scientific & Engineering Research | ijser | May-2014 | Volume 5, Issue 5  ISSN 2229-5518 |
| 14 | Analysis of thermal buckling of ceramic-metal functionally graded plates using refined third order shear deformation theory. | Dr. S.A. Bhalchandra and Shirin Daimi | International journal of engineering research and applications. | IJERA | 8-Aug. 2014 | Volume-4  ISSN No-2248-9622  Page No-129-133 |
| 15 | Effect of different staging configurations on seismic performance of circular elevated water tank | Dr. Bhalchandra S.A. and Ankita Patil | International journal of engineering research and applications. | IJERA | 8-Aug. 2014 | Volume.4 Issue 8 ( Version 6) Page No 39-43  ISSN No 2248-9622 |
| 16 | Seismic behaviour of RC buildings constructed on plain and sloping ground with different configurations of shear walls | Dr. Bhalchandra S.A. and Sandip Doijad | Journal of civil engineering and environmental technology | Krishi Sanskrirti Publications. | April-June 2015 | Volume.2  ISSN No-print-2349-8404  Online ISSN-2349-879X  Page No- 59-65 |
| 17 | Mechanical properties of Reactive powder concrete by using fly ash | A.D. Agharde Dr. S.A. Bhalchandra | International journal of advanced technology in engineering and science | IJATES | Jan 2015 | Volume.03  ISSN No- 2348-7550  Page No-90-95 |
| 18 | Response spectrum analysis of R.C Buildings Constructed on plain and sloping ground with different configurations of shear walls | Sandip Doijad and Dr. S.A. Bhalchandra | International journal of Structural Engineering and Managment | STM Journal | 2015 | ISSN No- 2393-8773 Volume-2 Issue-3  Page no- 65-73 |
| 19 | Study on Seismic analysis of RCC and Steel-Concrete Composite Structure and Cost Comparision with different support conditions | Syed fahad Ali and Dr. S.A. Bhalchandra | International journal for scientific research and development | IJSRD | 2015 | ISSN NO-2321-0613 Volume-3 Issue-9 |
| 20 | Seismic behavior of Reinforced concrete Buildings under varying frequency contents | Suryakant Narhire and Dr. S.A. Bhalchandra | International journal of Engineering and management research | IJEMR | Nov 2015 | ISSN No- Ol-2250-0758 print-2394-6962  Volume-5 Issue-5 Page no 526-534 |
| 21 | Seismic assessment of multistory RCC frame structures by nonlinear static analysis. | Rajesh Mangalwedheand Dr. S.A. Bhalchandra | Journal of Structural Engineering and Management, | JSEM | July 2016 | ISSN No- 2321-0613 Volume-4 Issue-05 |
| 22 | Comparative study of seismic performance of multistory RC frame structures with and without dampers. | RahilYousuf Mir and Dr. S.A. Bhalchandra | Journal of Structural Engineering and Management, STM Journal, | JSEM | 2017 | ISSN No- 2393-8773, Volume-4 Issue-2 |
| 23 | Geopolymer effects on bricks using different molarity | RohiniS.Alte andDr.S.A.Bhalchandra | International journal for Scientific Research and Development | IJSRD | 2017 | ISSN No- 2321-0613, volume-5,Issue-6 |
| 24 | Non-Linear Time History Analysis of Elevated water tank | G. P. Patil and Dr. S. A. Bhalchandra | International journal for Scientific Research and Development | IJSRD | 2017 | ISSN No- 2321-0613, volume-5,Issue-8 |
| 25 | A New Higher Order Shear Deformation Theory For Bending Analysis Of Isotropic And Orthotropic Plates With Linear Thermal Loading | Sandhya K. Swami, Yuvraj M. Ghugal, Dr. S. A. Bhalchandra | International journal of engineering research in mechanical and civil engineering | IJERMCE | 2018 | ISSN No.-2456-1290  Volume-3, Issue-1 |
| 26 | Non-Linear Time History Analysis of Elevated water tank | S.A.bhalchandra & G.P.Patil | International journal for Scientific Research and Development | IJSRD | Oct. 2017 | ISSN No.-2321-0613  Volume-5, Issue-8 |
| 27 | A New Higher Order Shear Deformation Theory For Bending Analysis Of Isotropic And Orthotropic Plates With Linear Thermal Loading | S.A.bhalchandra & Sandhya Swami | International journal of engineering research in mechanical and civil engineering | IJERMCE | Jan. 24-25, 2018 | ISSN No.-2456-1290  Volume-53, Issue-1 |

**22. M.E. Dissertations Guided:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No.** | **Title of Dissertation** | **Name Of Student** | **Year of Submission** |
| 1 | Performance of high strength fibre reinforced concrete. | Dusane Nitin | 2005 - 2006 |
| 2 | Study of electrical resistivity of silica fume concrete | Swami Sandhya | 2005 - 2006 |
| 3 | Seismic Analysis of Water tank using various codes | Bhandekar R.P. | 2005-2006 |
| 4 | Performance of Polymer Modified Polypropylene Fiber Reinforced Concrete | Kulkarni Sumant Khanderao | 2006 - 2007 |
| 5 | Performance of Steel & Polypropylene Hybrid Fiber Reinforced Concrete | Bharambe Archana | 2006 - 2007 |
| 6 | Seismic Analysis of Buildings Situated on Sloping Ground | Khandare Shrikant | 2006-2007 |
| 7 | Determination of Properties of Transversely isotropic Lamina using Micromechanics Approach | Shiradhonkar Yashodhara Suresh | 2007-2008 |
| 8 | Performance of steel fiber reinforced Metakaoline concrete | Shirale Rajesh | 2007 - 2008 |
| 9 | Performance of Polyster Fibre Reinforced Concrete | Raut Vijay | 2007 - 2008 |
| 10 | Computer Automated Optimum Design of Reinforced Concrete Structures. | Kulkarni P.G. | 2007- 2008 |
| 11 | Study on electrical resistivity of metakaolin concrete | Kulkarni Prashant Murlidhar | 2008 - 2009 |
| 12 | Effect of Hooked steel Fibers on silica Fume Concrete | Kalurkar L.G. | 2008-2009 |
| 13 | Modeling Initial Design Process of 2 way slab using ANN | More Varsha T | 2009 - 2010 |
| 14 | Pushover Analysis of Steel Frame Building | Pardeshi Jaydeepsingh | 2009 - 2010 |
| 15 | Computer Automated Optimum Design of Reinforced T-Beam Section | Siddiqui Fouzia Abubakar | 2009-2010 |
| 16 | Seismic Analysis of RC frame building with soft first Storey. | Deshpande Raghavendra | 2009-2010 |
| 17 | Performance of steel fiber reinforced self compacting concrete | Amit Pawase | 2012-2013 |
| 18 | Analysis of thermal buckling of ceramic-metal functionally graded plates using refined third order shear deformation theory. | Shirin Daimi | 2013-2014 |
| 19 | Properties of glass fiber reinforced geopolymer concrete | Anuradha Shelake | 2013-2014 |
| 20 | Effect of different staging configurations on seismic performance of circular elevated water tank | Ankita patil | 2013-2014 |
| 21 | Effect of basalt fiber on Mechanical Properties of silica Fume Concrete | Archana Pathak | 2014-2015 |
| 22 | Seismic behaviour of RC buildings constructed on plain and sloping ground with different configurations of shear walls | Sandip Doijad | 2014-2015 |
| 23 | Mechanical properties of Reactive powder concrete by using fly ash | Amruta Arghade | 2015-2016 |
| 24 | Study on Seismic Response of low, mid, and high rise RCC Buildings under various frequency content ground motions | Suryakant Narhire | 2015-2016 |
| 25 | Comparative study on Seismic Analysis of RCC And steel-concrete composite structure | Syed Fahad Ali | 2015-2016 |
| 26 | Pushover analysis of Building with and without floating column | Nikhil Verma | 2015-2016 |
| 27 | Seismic Assessment Of Multistory Infill RCC Frame Structures By Non Linear Static Analysis | Rajesh mangalwedhe | 2015-2016 |
| 28 | Seismic performance of Buildings Resisting on Sloping Ground With shear Wall | Sunita Dattatraya Kamble | 2015-2016 |
| 29 | Study of coconut fibre reinforced concrete with Fly Ash | Meenaskhi Kolhare | 2016-2017 |
| 30 | Study of Geopolymer Bricks using Crushed sand with different Molarity of NaOH Solution | Rohini Alte | 2016-2017 |
| 31 | Performance of Multi-storey RC frame structures using friction and metallic dampers | Rahil Yusuf Mir | 2017-2018 |

**23). Administrative Activities**

* Worked as a Sub-Nodal Officer for MS-CET.
* Co-ordinator for Departmental Purchase Committee under TEQUIP.
* Co-ordinator for GATE.
* Chairman of Vishakha Samiti