



### 1 . Personal Details:

- a) Name : Dr. Aravindakumar.B.Harwalkar  
b) Date of Birth : 20-05-1965  
c) Designation : Associate Professor  
d) Department : Civil Engineering Department  
e) Institute : P.D.A.College of Engineering Kalaburagi, Karnataka  
f) Email address : harwalkar\_ab@yahoo.co.in  
g) Mobile No. : 9449775788

### 2. Education Qualification:

Degree	University/Institution	Year of Passing	Class obtained
B.E. (Civil Engineering)	Karnataka University Dharwar	April 1986	First Class with Distinction
M. E. (Structural Engineering)	Gulbarga University, Gulbarga	January 1991	First Class with Distinction
Ph.D. (Civil Engineering) <b>Title of Ph. D. Thesis: Studies on Performance of High Volume Fly Ash Concrete for Rigid Pavements</b>	Visvesvaraya Technological University, Belgaum	April 2016	

### 3. Additional Educational Achievements:

- a) Obtained 'Merit Certificate' from Karnataka State Government in the Year 1980 for meritorious achievement in the S.S.L.C. Exam  
b) Qualified GATE exam 1987 after completion of B.E. Degree

4. Teaching experience : 34 years

**5. Research Experience** : 13 Years

**6. Innovations in and contribution to Teaching:**

Kinds of Teaching-Related Activities	Year	Nature of contribution
a) Design of Curriculum	1987-2018	<ul style="list-style-type: none"> <li>• As a member of BOE Gulbarga University Gulbarga for M.E. (Structural Engg) 1997-1998</li> <li>• As a member BOE for UG/PG Structural Engineering in Bangalore University from 2010-11</li> <li>• As a member BOS of Civil Engineering Department of the institute from 2008-2010 and involved in framing the curriculum of civil engineering programme.</li> <li>• As a member BOE of Civil Engineering Department of the institute from 2015 to till date</li> <li>• Working as Transportation Engineering Lab Incharge</li> <li>• Involved actively in implementing TEQIP project in the college.</li> <li>• Involved actively in NBA activities</li> </ul>
b) Teaching Learning Activities		<ul style="list-style-type: none"> <li>• Engaging full teaching workload assigned for both UG and PG satisfactorily</li> <li>• Obtained award of “Best Performing Teacher” from the institute for the year 2012-13</li> <li>• Perform all the Examination duties such as Invigilation, question paper setting, evaluation/ assessment of answer scripts as per allotment</li> <li>• Guided 26 UG projects out of which 5 are sponsored by KSCST and 20 PG projects</li> <li>• Evaluated 5 M.Tech. Structural Engineering thesis from the other institutions</li> <li>• Guiding One Ph.D. scholar</li> <li>• Adopting ICT based techniques in teaching apart from conventional black board teaching</li> <li>• Organizing and motivating group</li> </ul>

		<p>activities for student learning</p> <ul style="list-style-type: none"> <li>• Developed teaching models for teaching design of steel structures subject such as beam-column joints and also for structural analysis subject such as models of continuous beams and portal frames with different end conditions for demonstration purpose.</li> <li>• Conducting extra classes for slow learners after the college hours</li> <li>• Teaching evaluation done by collecting student feedback forms at the end of every semester</li> </ul>
c) Preparation of lab manuals		<ul style="list-style-type: none"> <li>• Strength of Materials Lab</li> <li>• Concrete Lab</li> <li>• Transportation Engineering Lab</li> </ul>

#### 7. Contribution to teaching outside the campus:

- a) Engaged 13 hours of live lectures in satellite based EDUSAT programme conducted by e-learning center of Visvesvarya Technological University, Belgaum from 20-08-2007 to 24-11-2007
- b) Conducted Hands on Training on the topic "Soil and Road Materials Testing" in NRRDA/KRRDA sponsored skill development training program for PMGSY Engineers of PIU conducted from 26th to 27th May 2017
- c) Worked as a resource person from 11-07-17 to 14-07-17 for the Two weeks STTP program on "Educational Measurement, Evaluation and Accreditation" at Government Polytechnic, Raichur, Karnataka State
- d) Delivered guest lectures during March 15th - 16th, 2018 on "Out Come Based Education" at Bundelkhand Institute of Engineering & Technology, Jhansi, UP State.

**8. Details of Faculty Development/Short term Training Programmes attended :**

S.No.	Name of Course	Organizing Institute	Sponsoring agency	Duration of Course		
				No. Weeks	From	To
01	Disaster Safe Construction Practices	P.D.A.College of Engineering, Kalaburagi	TEQIP-III	One Week	03-09-19	07-09-19
02	Hands on Training of Total Station Surveying and Data Processing	P.D.A.College of Engineering, Kalaburagi	TEQIP-II	One Week	24-10-16	28-10-16
03	Remote Sensing GIS & GPS Application in Engineering	NITTTR Chandigarh and P.D.A.College of Engineering, Kalaburagi (Through ICT mode)	MHRD, Government of India	One Week	03-10-16	07-10-16
04	Effective Teaching	National Institute of Technical Teachers' Training and Research, Kolkata	AICTE	Two Weeks	18-07-16	29-07-16
05	Exposure on MATLAB	National Institute of Technical Teachers' Training and Research, Kolkata	AICTE	Two Weeks	13-06-16	24-06-16
06	MATLAB and its Applications in Digital Image Processing and Pattern Recognition	P.D.A.College of Engineering, Gulbarga	TEQIP	One Week	13-10-14	17-10-14
07	Thermal Comfort in Hot Dry Climate for Residential Buildings	P.D.A.College of Engineering, Gulbarga	TEQIP	One Week	21-07-14	26-07-14
08	Probability, Statistics and	Indian Institute of Technology, Madras	MHRD	One Week	02-06-08	06-06-08

	Reliability for Civil Engineers					
09	National Programme for Capacity Building of Engineers in Earthquake Risk Management (NPCBEERM)	Indian Institute of Science, Bangalore	Ministry of Home Affairs, GOI, New Delhi	Six Weeks	13-06-05	16-07-05
10	Advances in Construction Material Technology	Indian Institute of Technology, Madras	AICTE	One Week	12-07-04	17-07-04
11	Computer Aided 3D Modeling and Animation	Manipal Institute of Technology, Manipal	AICTE - ISTE	One Week	15-03-04	20-03-04
12	Irrigation Management	Regional Engineering College, Warangal	AICTE - ISTE	Two Weeks	31-12-01	12-01-02
13	Engineering Practice in Expansive Soils	Basaveshwar Engineering College, Bagalkot	AICTE - ISTE	Two Weeks	07-02-2000	18-02-2000
14	Design of High Rise Structures for General Loading including Seismic Loads	Coimbatore Institute of Technology	AICTE - ISTE	Two Weeks	15-11-99	28-11-99
15	Marine Geotechnology	Sri Venkateswara University, S.V.U.College of Engineering, Tirupati	AICTE	One Week	21-07-97	26-07-97
16	Computer Application in Civil Engineering	P.D.A.College of Engineering, Gulbarga	AICTE	Two Weeks	10-06-97	22-06-97
17	Air Pollution: Issues and Control Measures in Urban Areas	Sardar Vallabhbhai Regional College of Engineering and Technology, Surat	AICTE - ISTE	Two Weeks	05-02-96	16-02-96

18	Foundation Aspects for Industrial Structure	Indian Institute of Technology, Madras	AICTE- ISTE	One Week	05-06-95	09-06-95
19	Geosynthetic Reinforced Soil Structures: Analysis, Design and Construction	Indian Institute of Technology, Madras	QIP, MHRD, Govt. of India	9 working days	03-12-94	11-12-94
20	Pipe Line Design and Pumping Machinery for Liquids and Solid-Liquid Mixtures	Maulana Azad College of Technology (NIT), Bhopal	AICTE - ISTE	Two Weeks	12-07-93	23-07-93
21	Design and Fabrication of Printed Circuit Boards	P.D.A.College of Engineering, Gulbarga	AICTE - ISTE	Two Weeks	27-01-93	07-02-93

#### 9. Details of Workshops/Symposium/Seminars attended:

S.No.	Name of Course	Organizing Institute	Duration of Workshop		
			No. of working days	From	To
01	International Virtual Workshop on "Modern Trends in Transportation System (MTTS-2020)"	Department of Civil Engineering, National Institute of Technology Silchar, India	05	25-07-20	29-07-20
02	Establish Mechanism for Enabling Peer to Peer Learning and Knowledge Sharing	TEQIP-3 State Project Implementation Unit - Uttar Pradesh	02	30-05-19	31-05-19

03	Outcome Based Education: A transformational Approach for Quality Education	P.D.A.College of Engineering, Kalaburagi	03	21-06-18	23-06-18
04	World Class Institutions and Road Map to NBA	P.D.A.College of Engineering, Gulbarga	01	31-08-16	
05	Entrepreneurship Development	P.D.A.College of Engineering, Gulbarga	02	19-09-14	20-09-14
06	Research Methodologies and Report Writing	K.L.S.Gogte Institute of Technology, Belgaum	02	25-05-09	26-05-09
07	Non Destructive Testing Techniques in Civil Engineering	P.E.S.College of Engineering, Mandya	02	15-09-03	16-09-03

**10. Details of Faculty Development Programmes/Short Term Training Programmes Conducted:**

S.No.	Name of Course	Organizing Institute	Sponsoring agency	Duration of Course		
				No. Weeks	From	To
01	Prospects of Fibre Reinforced Cement Composites in Structural Applications	P.D.A.College of Engineering, Kalaburagi	AICTE-ISTE	One Week	23-06-03	28-06-03
02	Capacity Building of Engineers in Earthquake Risk Management	P.D.A.College of Engineering, Kalaburagi	Ministry of Home Affairs, New Delhi	Two Weeks	15-02-10	24-02-10

	and Seismic Safe Construction in RCC and Masonry					
03	Skill Development Training Program for PMGSY Engineers of PIU (In Two Modules)	P.D.A.College of Engineering, Kalaburagi	NRRDA/KRRDA	One Week	17-05-17 26-05-17	19-05-17 27-05-17
04	Recent Practices in Design and Construction of Flexible and Rigid Pavements	P.D.A.College of Engineering, Kalaburagi	AICTE-ISTE	One Week	21-12-20	26-12-20

### Research and publications

#### 11. Details of Research work:

Title of Ph. D. Thesis : Studies on Performance of High Volume Fly Ash Concrete for Rigid Pavements

University : Visvesvaraya Technological University, Belgaum

Year of award of degree : April 2016

#### 12. Details of Publications Authored:

##### a) Details of papers published in the Conference:

Sl. No	Title of the paper	Details of conference	Year	National/ International
1.	Experimental Studies on Flexural Behavior of RC Beams Strengthened with High Performance Concrete Layer	Springer International Conference on Recent Trends and Innovations in Civil Engineering, MEDICAPS University, Indore, India	September 26-28, 2019	International
2.	Flexural Fatigue Behavior of High Volume Fly Ash Concrete under Constant Amplitude, Compound and	ASCE and T&DI International Airfield and Highway Pavements Conference 2019, Chicago, Illinois, USA	July 21-24, 2019	International



	Variable Amplitude Loading			
3.	Performance Studies on High Strength Concrete with GBS Sand	3rd International Conference on Construction, Real Estate, Infrastructure and Project (CRIP) Management, NICMAR, Pune	November 23-25, 2018	International
4.	Probability Analysis of Flexural Data of High Volume Fly Ash Concrete	ASCE and T&DI International Airfield and Highway Pavements Conference 2017 at Philadelphia, Pennsylvania, USA	August 27-30, 2017	International
5.	Studies on Behavior of Bolted Beam-Column Joints	2 <sup>nd</sup> International Conference on Applies Science, Engineering and Technology (ICASET-2016), Tirupati, Andhra Pradesh	18 <sup>th</sup> -19 <sup>th</sup> October 2016	International
6.	Studies on Behavior of Welded Beam-Column Joints	2 <sup>nd</sup> International Conference on Applies Science, Engineering and Technology (ICASET-2016), Tirupati, Andhra Pradesh	18 <sup>th</sup> -19 <sup>th</sup> October 2016	International
7.	Mix Design Curves for High Volume Fly Ash Concrete	18th International Conference on Traffic Guidance and Transportation, at New York, USA	October 10-11, 2016	International
8.	Flexural Fatigue Behavior of High Volume Fly Ash Concrete with Different Cement Replacement Levels	4 <sup>th</sup> National Conference (NET 2016) on Emerging Trends in Civil Engineering, GEC, Kozhikode, Kerala	7- 8 October, 2016	National
9.	Laboratory and Field Investigations on High Volume Fly Ash Concrete for Rigid Pavement	93 <sup>rd</sup> Annual Meeting of Transportation Research Board, Washington D C	January 12-16, 2014	International
10.	Validation of Three Dimensional Finite Element Analysis for Wheel Load Strains in High Volume Fly Ash Concrete Pavement	International Conference on Recent Innovations in Civil Engineering, P. D. A. College of Engineering, Gulbarga	25-27 October 2013	International
11.	Laboratory Investigations on Mechanical Properties of High Volume Fly Ash Concrete and Composite Sections”,	International Conference on Civil, Architecture and Civil Engineering (ICACSE 13), Zurich, Switzerland	July 2013	International

12.	Performance of High Volume Fly Ash Concrete Pavement	National Seminar on Innovative Technologies for Rural Roads, Karnataka Rural Road Development Agency, Bangalore, India	September 2012	National
13.	Behaviour of RC beams strengthened by bonding the steel plates with bolts	National Conference on Materials and Structures (MAST), NIT Warangal, Andhra Pradesh	23-24 January 2004	National

**b) Details of papers published in referred International Journals:**

Sl. No	Title of the paper	Details of Journal	Month, Year, Volume No., Issue No. and Page numbers
1	Seismic Analysis of RCC Structure with Different Types of Dampers	International Journal Innovative Technology and Exploring Engineering (IJITEE), Scopus Indexed Journal	October 2020, Vol-9, Issue-12, pp.205-210
2	Seismic Behavior of Offshore Steel Jacket Platform Braced in Horizontal and Vertical Planes	International Journal Innovative Technology and Exploring Engineering (IJITEE), Scopus Indexed Journal	October 2019, Vol 8, Issue-12, pp.1947-1953
3	Laboratory and Field Investigations on High Volume Fly Ash Concrete for Rigid Pavement	Transportation Research Record: Journal of the Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C	December 2014, Vol 2441, pp.121-127
4	Mechanistic Analysis of Rigid Pavement for Temperature Stresses Using ANSYS	IOSR Journal of Mechanical and Civil Engineering	April 2014, Vol 11, Issue 2, pp. 90-107
5	Laboratory Investigations on Behavior of High Volume Fly Ash Concrete Composite Sections under Flexural Fatigue Loading	International Journal of Engineering and Technology (IJET, UK Publications), ISSN 2049-3444	December 2013, Vol 3, Issue 12, pp.1039-1044
6	Field Investigations on Temperature Differentials and Curling Strains in High Volume Fly Ash Concrete Pavement	International Journal of Scientific and Engineering Research (IJSER), ISSN 2229-5518	February 2013, Vol 4, Issue 2
7	Fatigue Behavior of High Volume Fly Ash Concrete under Constant	International Journal of Civil Engineering and Technology	December 2012, Vol 3, Issue 2,

	Amplitude and Compound Loading	(IJCET), ISSN 0976 – 6308	pp.404-414

**c) Details of papers published in referred National Journals:**

Sl. No	Title of the paper	Details of Journal	Month, Year, Volume No., Issue No. and Page numbers
1	Performance Studies on High Strength Concrete with GBS Sand	NICMAR Journal of Construction Materials and Management	2019, ISBN No. 978-93-5361-788-2, pp.99-112
2	Field Investigations and 3DFE analysis on Plain Jointed High Volume Fly Ash Concrete Pavements for Thermal and Wheel Loads	Indian Highways, Journal of Indian Roads Congress (IRC)	April 2014, pp. 47-60
3	Field Experience on Performance of High Volume Fly Ash Concrete Pavement	Indian Journal of New Building Materials and Construction World (NBM and CW)	April 2013, Vol 18, Issue 10, pp. 96-106

**d) Details of papers published as book chapter:**

Sl. No	Title of the paper	Details of publisher	Year of publication
1.	Experimental Studies on Flexural Behavior of RC Beams Strengthened with High Performance Concrete Layer	Springer e book on "Lecture notes in Civil Engineering" Volume 77	2019

**e) Details of Text Book Published:**

Written one text book on 'Strength of Materials' subject and it is published through Vaishnavi Publishers Gulbarga.

**f) Details member of editorial board/ reviewer of Journals:**

Reviewer with International Journal of Engineering Sciences and Management - A Multidisciplinary Publication of Visvesvaraya Technological University (VTU), Belgavi.

**13. Administrative and Professional Experience:**

- a) Worked as secretary for Civil Engineering Association organizing cultural and sports activities for civil engineering students from 2008 to 2011

- b) Worked as Department Coordinator for state level Project Exhibition 'Techno vision 2006'.
- c) Worked as Task force member for ISO-2000.
- d) Worked as a member of BOE Gulbarga University Gulbarga for M.E. (Structural Engineering) 1997-1998
- e) Worked as a member BOE for UG/PG Structural Engineering in Bangalore University from 2010-11
- f) Worked as a member BOS of Civil Engineering Department of the institute from 2008-2010 and involved in framing the curriculum of civil engineering programme.
- g) Working as a member BOE of Civil Engineering Department of the institute from 2015 to till date
- h) Engaged actively in consultancy work through the civil engineering department. The consultancy work carried out consists of design of various civil engineering structures such as residential and public building, water tanks, service reservoirs, apart from laboratory material testing and third party inspection works.
- i) Working as Dean (Administration) of the Institute since from July 2018
- j) Working as IQAC coordinator since from October 2019
- k) Working as Member Secretary of Academic Council of the Institute since from June 2019

#### **14. Establishment of laboratories:**

- a) Assisted in establishing advanced structural Laboratory under MODROB scheme.
- b) Assisted in procurement of state of the art equipments for transportation engineering laboratory under TEQIP

#### **15. Sponsored Projects:**

- a) Completed a AICTE sponsored R&D project on "Performance of high volume fly ash concrete for rigid pavements" under RPS scheme with a total grant of 8 lakhs as a co-principal investigator
- b) Guided 5 KSCST sponsored student projects out of which one project received 'best project of the year' award in the year 2005 and 2 projects received consolation prizes in the annual KSCST project exhibition in the year 2006 and 2007.

#### **16. Awards and Recognitions:**

- a) Received the award of 'Best Performing Teacher' from P.D.A.College of Engineering, Gulbarga for the Academic Year 2012-13
- b) Received the award for Guiding 'Project of the Year' from Karnataka State Council for Science and Technology (KSCST) in the Year 2005 (28<sup>th</sup> Series of Student Project Programme during the Year 2004-05 by KSCST)
- c) Received appreciation for a paper published in Journal of Indian Roads Congress from Emeritus Professor of IIT Kharagpur and Chief Engineer of Metro Rail, Bangalore

- d) Reviewer for International Journal of Engineering Sciences and management-A multidisciplinary Publication of VTU

**17. Membership of Professional/Government bodies:**

- a) Life Member of Indian Society for Technical Education (ISTE)
- b) Member of Institution of Engineers (India) (MIE)
- c) Member of State Resource Institute (SRI) identified for training engineers for earth quake risk management by Ministry of Home Affairs, GOI, National Disaster Management Division, New Delhi