

## Curriculum Vitae

### **Dr. Anant Parghi**

Department of Applied Mechanics,  
S. V. National Institute of Technology, ( SV NIT)  
Ichchhanath, Surat-395 007, Gujarat, India  
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### **Dr. Anant Parghi**

# A-604 Staff Quarters,  
Ichchhanath, SV NIT,  
Surat-395 007, Gujarat, India

### **ACADEMIC BACKGROUND**

<b>Degree</b>	<b>Name of Discipline</b>	<b>Institution</b>	<b>Country</b>	<b>Date</b>
Postdoctoral Fellow	Civil Engineering	University of Manitoba	Canada	June-2017
Ph.D.	Civil Engineering	University of British Columbia	Canada	August-2016
M.Tech.	Structural Engineering	SVNIT, Surat	India	June-2006
B.Eng. Civil	Civil Engineering	Saurashtra University Rajkot	India	July-2004
Diploma Civil Eng.	Civil Engineering	Technical Education Board, Gandhinagar	India	October-2000

### **ACADEMIC, RESEARCH & INDUSTRIAL EXPERIENCE**

<b>Position held</b>	<b>Organization</b>	<b>Department</b>	<b>Period</b>
Assistant Professor	SVNIT, Surat	Department of Applied Mechanics	2007/07 onwards
Teaching Assistant	UBC	School of Engineering	2011/09 to 2016/08
Research Assistant	UBC	School of Engineering	2011/09 to 2016/08
Research Engineer	PolyRAP	Engineering	2011/09 to 2016/08
Lecturer	South Gujarat University, Surat	Civil Engineering Department	2006/06 to 2006/12
Research and Teaching Assistant	IIT Roorkee	Civil Engineering Department	2007/01 to 2007/06
Teaching Assistant	SVNIT, Surat	Applied Mechanics Department	2004/07 to 2006/06
Assistant Engineer	Government of Gujarat, Rajkot	Road and Building Department	2001/03 to 2002/04

### **DESCRIPTION OF ACTIVITIES AT ACADEMIC INSTITUTIONS**

#### **PATENTS:**

1. **Anant Parghi** “Method of Strengthening an Existing Infrastructure Using Sprayed-Fiber Reinforced Polymer Composite”, United States Patent and Trademark Office, Application No. 2,926,664, Patent Filed on April 4, 2016.
2. **Anant Parghi** “Geopolymer Cement Compositions and Methods of Making and Using Same”, Patent Filed PCT International Application No. PCT/CA2015/050260, Patent Filed on March 31, 2015.

#### **JOURNAL PAPER PUBLICATIONS:**

1. **Anant Parghi**, M. K. Maroliya, C. D. Modhera, “Influence of Steel Fiber Variation on Impact Strength of Reactive Power Concrete”, International Journal of Earth Science and Engineering, ISSN 0974-5904, Vol. 03, No.04 Sp. Issue, July, 2010, PP.628-633.
2. **Anant Parghi**, M.K.Maroliya, and C. D. Modhera, “An Evaluation of Some of the Parameters Involved in Producing Normal Weight Reactive Powder Concrete”, International Journal Civil Engineering, ISSN 0975-5314, Vol. 02, Number-2, July-December- 2010, PP-93-100.

3. **Anant Parghi**, M. K. Maroliya, and C. D. Modhera, “Socio-Economic Aspect for Sustainability of Ultra High Performance Reactive Powder Concrete-A Review”, National Journal of Civil Engineering & Construction, December-2008, PP.86-92.
4. **Anant Parghi**, C.D. Modhera and S.A.Vasanwala “A State of Art Review of Performance based Design in Earthquake Engineering.” Electronic Journal of Structural Engineering, ISSN-1443-9255, July-2009, PP.76-87.
5. **Anant Parghi** and M. Shahria Alam (2015). “Effect of curing regimes on the mechanical properties and durability of polymer modified mortars-an experimental investigation”, Journal of Sustainable Cement-Based Materials, Taylor & Francis.
6. **Anant Parghi** and M. Shahria Alam (2016). “Physical and mechanical properties of cementitious composites containing recycled glass powder (RGP) and styrene butadiene rubber (SBR)”, Journal of Construction and Building Materials, Vol. 104, PP. 34-43, Elsevier.
7. **Anant Parghi** and M. Shahria Alam (2016). “Physical and mechanical properties of mortar containing incinerated sludge ash and silica fume”, ACI Special Publication. (Accepted)
8. **Anant Parghi** and M. Shahria Alam (2016). “Seismic behavior of deficient reinforced concrete bridge piers confined with FRP – a fractional factorial analysis”, Engineering Structures, Vol. 126, PP. 531–546, Elsevier.
9. **Anant Parghi**, and M. Shahria Alam (2016). Seismic collapse assessment of non-seismically designed circular RC bridge piers retrofitted with FRP composites. Composite Structures, Elsevier. (Accepted)

#### **PAPERS UNDER REVIEW FOR JOURNAL PUBLICATIONS:**

10. **Anant Parghi** and M. Shahria Alam (2015). “Potential applications of nanotechnology in civil engineering and its effect on environment, health and safety reflection: A Review”, Cem. & Conc. Compos., Elsevier. (Under review)
11. **Anant Parghi** and M. Shahria Alam (2015). “Strengthening of concrete structures using sprayed FRP composites laminate: A state of art review”, Journal of Composite, Elsevier. (Under review).
12. **Anant Parghi**, and M. Shahria Alam. (2016). Seismic repair and retrofit of reinforced concrete bridge piers: Review of research Finding. Construction and Building Materials, Elsevier. (Under review)
13. **Anant Parghi**, and M. Shahria Alam (2016). Stress-strain behavior model of FRP-confined concrete: A review. Structures, Elsevier. (Under review)
14. **Anant Parghi**, and M. Shahria Alam (2016). Analysis of circular RC bridge piers retrofitted with fiber reinforced polymer under axial and lateral cyclic load. Bulletin of Earthquake Engineering-2016. (Under review)
15. **Anant Parghi**, and M. Shahria Alam (2016). Fragility analysis of deficient RC bridge piers retrofitted with FRP composites. Earthquake Engineering, Taylor and Francis. (Under review)
16. **Anant Parghi** and M. Shahria Alam (2016) “Chopped mat sheet (CSM) composites confined concrete cylinders: Axial Compression experiments and strength model”, Structures, Elsevier. (Under review)

#### **PAPERS UNDER PREPARATION FOR JOURNAL PUBLICATIONS:**

17. **Anant Parghi** and M. Shahria Alam (2016) “Bond strength of concrete substrate and sprayed-FRP composites”, (Under preparation).
18. **Anant Parghi** and M. Shahria Alam (2016) “Experimental and numerical evaluation of sprayed-FRP strengthened RC circular bridge columns”, (Under preparation).
19. **Anant Parghi** and M. Shahria Alam (2016) “Analysis of RC columns retrofitted with sprayed-fiber reinforced polymer under axial and lateral cyclic loading”, (Under preparation).
20. **Anant Parghi** and M. Shahria Alam (2016) “Analysis of RC columns retrofitted with chopped mat sheet reinforced polymer under axial and lateral cyclic loading”, (Under preparation).
21. **Anant Parghi** and M. Shahria Alam (2016) “Seismic performance evaluation of deficient bridge columns retrofitted with CFRP under far-field excitation using incremental dynamic analysis”, Bulletin of Earthquake Engineering, Springer (Under review).

## CHAPTER PUBLISHED IN BOOK:

Citation Information Concrete Solutions Edited by Michael Grantham, Valentina Salomoni , and Carmelo Majorana CRC Press 2009 Print ISBN: 978-0-415-55082-6 eBook ISBN: 978-0-203-86400-5

1. **Chapter No. 63.** An Experimental Study on The Effect of Steel Fiber Reinforced Concrete on The Behavior of the Exterior Beam-Column Junctions Subjected to Cyclic Loading. **Anant Parghi, C. D. Modhera.**
2. **Chapter No. 64.** Strengthening and Repair of Reinforced Concrete Structures Using Composite Material, **Anant Parghi, C. D. Modhera**

## CONFERENCE PROCEEDINGS:

1. **Anant Parghi,** and M. Shahria Alam. Collapse fragility analysis of non-seismically designed bridge columns retrofitted with FRP composites, ASCE Structures Congress, Denver, Colorado, April 6-8, 2017.
2. **Anant Parghi,** and M. Shahria Alam. Seismic collapse safety of RC circular bridge pier retrofitted with fibre reinforced polymer" IABSE/Vancouver 2017.
3. **Anant Parghi,** and M. Shahria Alam. Mechanical properties of cementitious composites containing recycled glass powder (RGP) as a partial replacement of cement. Abstract submitted for the ACI-2017.
4. Shiwanand Suryawanshi, **Anant Parghi,** B Kondraivndhan, C. D. Modhera. An assessment of efficiency factors of recycled aggregate concrete bottle-shaped struts. Abstract submitted for the ACI-2017.
5. **Anant Parghi,** and M. Shahria Alam. Seismic repair and retrofit of reinforced concrete bridge columns: Review of research outcomes. Submitted to CINPAR 2016. International Conference on Structural Repair and Rehabilitation, 26-29 October-2016, Porto, Portugal.
6. **Anant Parghi,** and M. Shahria Alam. Seismic behavior of non-seismically designed circular RC bridge piers retrofitted with FRP. Submitted to 11th International Conference on Earthquake Resistant Engineering Structures (ERES 2017).
7. **Anant Parghi,** and M. Shahria Alam. Fragility analysis of deficient RC bridge columns retrofitted with FRP composites. Submitted to CINPAR - International Conference on Structural Repair and Rehabilitation, 26-29 October-2016, Porto, Portugal.
8. **Anant Parghi,** and M. Shahria Alam. Fragility analysis of deficient RC bridge piers retrofitted with FRP composites submitted to STRUCTURES CONGRESS 2017, 6-8 April-2017, Denver, Colorado.
9. **Anant Parghi** and M. Shahria Alam "Seismic analysis of circular reinforced concrete bridge columns retrofitted with advanced composite materials" 2<sup>nd</sup> Annual Eng. Graduate Symposium UBC, Okanagan, 8<sup>th</sup> June 2015.
10. **Anant Parghi** and M. Shahria Alam "Analysis of RC circular bridge columns retrofitted with fiber reinforced polymer under axial and lateral cyclic loading", CSCE 4<sup>th</sup> Annual Conference, Regina, 27<sup>th</sup> to 30<sup>th</sup> May 2015.
11. **Anant Parghi** and M. Shahria Alam "Axial stress-strain behavior model of FRP-confined concrete: a state of the art review", CSCE 4<sup>th</sup> Annual Conference, Regina, 27<sup>th</sup> to 30<sup>th</sup> May 2015.
12. **Anant Parghi** and M. Shahria Alam "A nonlinear finite element model for concrete confined with FRP composites", 1<sup>st</sup> Annual Eng. Graduate Symposium UBC, Okanagan, 1<sup>st</sup> May 2014.
13. **Anant Parghi,** Mayank Delwadia and C. D. Modhera "Performance-based design in earthquake engineering: A state of the art review", "The International Conference on Advances on Concrete, Structural and Geotechnical Engineering, BITS Pilani, 25-27 Oct. 2009.
14. **Anant Parghi,** D. L. Shah and C. D. Modhera "Self-compacting concrete: A state of the art review", "The Inter. Conf on Advances on Concrete, Structural and Geotechnical Engineering, BITs Pilani, 25<sup>th</sup> -27<sup>th</sup> Oct. 2009.
15. M. K. Maroliya, **Anant Parghi,** and C. D. Modhera " Influence of the steel fiber variance on the impact strength of reactor powder concrete, "The International Conference on Advances on Concrete, Structural and Geotechnical Engineering, BITS Pilani, 25th-27 Oct. 2009.
16. **Anant Parghi,** C. D. Modhera, "Deformability and ductility in over reinforced self-compacting concrete structures", Proceeding of the National Conference, NIT Warangal, 14-16 Dec 2007.

17. **Anant Parghi**, C. D. Modhera, “Finite element analysis of RC columns confined with FRP sheets”, Proceeding of the National Conference held at NIT Hamirpur, 16-17 May 2008.
18. **Anant Parghi**, “Uma Chaduvula, “Pile subjected to negative skin friction and vertical load”, A National Symposium CONTECH-2007 held at Nirma University, Ahmedabad, Sept. 28-29, 2007.
19. **Anant Parghi**, C. D. Modhera and M. K. Maroliya, “Effect of ductility and deformation behavior of self-compaction concrete structures” The 33<sup>rd</sup> Conference on Our World in Concrete & Structures at Singapore, 25 – 27 August 2008.
20. **Anant Parghi**, C. D. Modhera and D. L. Shah, “Micro mechanical crack and deformations study of SFRC deep beams” The 33<sup>rd</sup> Conference on Our World in Concrete & Structures at Singapore, 25 – 27 August 2008.
21. M. K. Maroliya, **Anant Parghi**, C. D. Modhera and Bhavin A. Patel, “Physio mechanical behaviour of reactive powder concrete under aggressive environment of contaminated soil”, The 33<sup>rd</sup> Conference on Our World in Concrete & Structures at Singapore, 25 – 27 August 2008.
22. **Anant Parghi** and C. D. Modhera, “A state of the art: Repair of reinforced concrete members” The 4<sup>th</sup> International Conference & Exhibition on Innovative World of Concrete at New Delhi, December 11–14 2008
23. **Anant Parghi**, C. D. Modhera and M. K. Maroliya, “Effect of ductility and deformation behavior on structural members” The 4<sup>th</sup> International Conference & Exhibition on Innovative World of Concrete at New Delhi, December 11–14 2008.
24. **Anant Parghi** and C. D. Modhera, “Mechanical properties of normal to high strength steel fiber-reinforced concrete” The 4<sup>th</sup> International Conference & Exhibition on Innovative World of Concrete at New Delhi, December 11 – 14 2008.
25. **Anant Parghi** and C. D. Modhera "An experimental study on effect of steel fiber reinforced concrete on the behavior of exterior beam-column junctions subjected to cyclic loading", "The 3<sup>rd</sup> International Conference on Concrete Repair, Venice/Padua, Italy, 29<sup>th</sup> June to 2<sup>nd</sup> July 2009.
26. **Anant Parghi** and C. D. Modhera "Strengthening and repair of reinforced concrete structures using composite material", "The 3<sup>rd</sup> International Conference on Concrete Repair, Venice/Padua, Italy, 29<sup>th</sup> June to 2<sup>nd</sup> July 2009.

#### **TECHNICAL RESEARCH PROJECT REPORTS:**

1. **Anant Parghi** and M. Shahria Alam (2011), New generation polymer concrete for pavement construction, [POLYRAP Pavement System Ltd.](#) and NSERC, Canada.
2. **Anant Parghi** and M. Shahria Alam (2013), Seismic retrofitting of deficient bridge piers using sprayed fiber reinforced polymer (FRP) composites, [POLYRAP Pavement System Ltd.](#) and NSERC, Canada.
3. **Anant Parghi** and M. Shahria Alam (2014), Improved prediction models for concrete confined with various composites: experimental and numerical investigation, [POLYRAP Pavement System Ltd.](#) and MITAC, Canada.

#### **THESIS:**

**Doctor of Philosophy (Ph.D.) in Civil Engineering:** “Seismic performance evaluation of circular reinforced concrete bridge piers retrofitted with fiber reinforced polymer”.

Name of Supervisor: Dr. M. Shahria Alam

**Master of Technology (M. Tech.) in Structural Engineering:** “An experimental study of exterior beam-column junction on behavior of SFRC subjected to cyclic loading”.

Name of Supervisor: Professor C. D. Modhera

**Bachelor of Civil Engineering (B. Eng.):**

(i) Design of diversion head works (ii) Design of water treatment plant

Name of Supervisor: Professor B. M. Vadher

**Diploma Civil Engineering:** Colony planning of residential building in Gujarat State, India

Name of Supervisor: Professor D. P. Trivedi

## **AWARDS AND SCHOLARSHIPS:**

- 2016-2018 Mitacs Elevate Postdoctoral Fellowship, University of Manitoba, Winnipeg, Canada.
- 2016S University Graduate Fellowship, UBC, Okanagan, Canada
- 2016S Special University of BC Okanagan Graduate Scholarship, UBC, Okanagan, Canada
- 2016 e-Ph.D. (Enterprenuerial-Ph.D. Prize) Prize, UBC, Vancouver, Canada.
- 2015 CSCE Young Professional Travel Bursary, Annual Conference-2015, Regina.
- 2014-2016 Mitacs-Accelerate Ph.D. Fellowship, at the UBC, Okanagan, Canada.
- 2013-2014 NSERC Ph.D. Fellowship, at the UBC, Okanagan, Canada.
- 2013 Best Poster Presentation Award in the 3<sup>rd</sup> Annual Graduate Research Poster Competition, at the University of British Columbia, Canada.
- 2011-2016 Intern. Partial Tuition Scholarship, the University of British Columbia, Canada.
- 2011 Ph.D. Scholarship, IIT Bombay, Quality Improvement Program, Declined.
- 2010 Award of Scholarship for the Selection Year 2008-09 under the Scheme of National Overseas Scholarship by Govt. of India for the Doctoral Study.
- 01/2007-07/2007 Ph.D. Scholarship, IIT Roorkee, Ministry of Human Resources Development, Govt. of India.
- 07/2004-06/2006 M. Tech. Scholarship, SV NIT, Surat, Ministry of Human Resources Development, Govt. of India.
- 2001-2004 B. Eng. Merit Scholarship, L. E. College, Morbi, Saurashtra University, Rajkot
- 1998-2000 Diploma Civil Engineering, Merit Scholarship, Government Polytechnic, Jamnagar, Technical Education Board, Gandhinagar.

## **COMPUTER SKILLS:**

Operating Systems: Microsoft Windows (win98, win2000, winxp),  
Packages: MS office.  
AutoCAD, STAAD Pro., SAP 2000, ETABS, SeismoStruct, ANSYS, SolidWorks and ABAQUS

## **MEMBERSHIPS TO PROFESSIONAL ORGANIZATIONS: \*LM-Life Time Membership**

Student membership ((#1092818) of **ACI** (American Concrete Institute)  
Student membership of **ASCE**, (American Society of Civil Engineering)  
Student membership (# 073713) of **CSCE**, (Canadian Society for Civil Engineering)  
Student membership (#1494285) of **ASTM**, (American Society for Testing and Materials)  
Student membership (# 31201672) of **SEABC**, (Structural Engineers Association of British Columbia)  
Student membership (# 169966) of **APEGBC**, (Association of Professional Engineers and Geoscientist of British Columbia)  
Associate member (#14029) of **ACEC** (Association of Consulting Engineering Companies, BC).  
**IASE** (Indian Association of Structural Engineer)  
**LM # 56972, ISTE** (Indian Society of Technical Education)  
**LM #1358, ISET** (Indian Society of Earthquake Technology)  
**LM # 456, ISWE** (Indian Society of Wind Engineering)  
**LM # IndACM** (Indian Association for Computational Mechanics)  
**LM # ASRR**, (Association of Structural Rehabilitation and Retrofitting)

## **EDITORIAL BOARD MEMBER/REVIEWER IN JOURNAL:**

ACI Structural Journal, American Concrete Institute, USA  
ACI Materials Journal, American Concrete Institute, USA  
ASCE, Journal of Materials in Civil Engineering, USA  
Springer, Journal of Bulletin of Earthquake Engineering

Elsevier, Construction and Building Materials  
American Journal of Civil Eng. and Architecture, Science and Education Publishing, USA.  
World Research Journal of Civil Engineering, Bioinfo Publication, India.  
Journal of Civil Engineering and Architecture, Horizon Research Publishing, USA.  
International Journal of Adv Res in Engineering and Science, Aafreen Research Publications (ARP), India.  
The Open Civil Engineering Journal, Bentham Open Publishers United Arab Emirates,

### **VOLUNTEER WORK:**

**GradTrain:** Coach to new applicants to Graduate School Abroad. <https://www.gradtrain.com/UserProfile/Coach?id=133>

**UBC Okanagan:** Jump start team orientation lead for new International Students

Orientation faculty volunteer team leader

Higher secondary school science fair judge

### **ADMINISTRATIVE DUTIES:**

In-charges of Pre-stressed Concrete Laboratory, High Head Laboratory, Departmental CAD Laboratory, and Experimental Stress Analysis Laboratory.

Actively Involved in Testing and Consultancy Services.

In-charge Drainage System, Repairing and Maintenance in Estate Section, SVNIT, Surat.

In-charge Mechanics of Solid and Materials Testing Laboratory, SVNIT, Surat.

### **CONSULTANCY PROJECTS:**

1. Physical condition assessment and remedial measures for girls' polytechnic building at Athwalines, Nanpura, Surat (July-2010).
2. Physical condition assessment and remedial measures for Indralok Complex, "G Building", Co-owners Association, Opposite Lakeview, Piplod, Surat (October-2010).
3. Physical condition assessment and remedial measures for Pratisthan Complex, "Opposite St. Xavier's High School, Chikuwadi, Near Digvijay Complex, Ghoddod Road, Surat (December-2010).
4. Physical condition assessment and remedial measures report for Kashi Corner Apartment, "Behind Kashi Plaza Bldg., Near Children Hospital Majura Gate, Surat" (December-2010).
5. 70 Concrete mix design projects carried out e.g. M-10, M-15, M-20, M-25, M-30, M-35, M-40, M-45, M-50 and M-60 Grade of concrete (July 2007 to August-2011).
6. Condition assessments for school building and staff quarters of K.V.No.-1, Ichchhnath, Surat (April-2009).
7. Condition assessments for type-V quarters & principal residence at K.V.No.-1 Ichchhnath, Surat (April-2009).
8. Condition assessments for additional class rooms and activity room at K.V.No.-1 Ichchhnath, Surat (April-2009).
9. Vibration measurement and condition assessments of industrial building of Hare Krishna Syntax Pvt. Ltd. Surat (October-2009).
10. Vibration measurement and condition assessments of industrial building Sahyog Society, Part-B Plot No.172-176 Fatakavadi Ved Darwaja, Hare Krishna Syntax Pvt. Ltd. Surat (July-2010).
11. Condition assessments for the building of Oil and Natural Gas Corporation Ltd., Engineering Services, Ankleshwar Asset, Ankleshwar (December-2009).
12. Physical condition assessment and remedial measures for Indralok Complex, "E Building", Co-owners Association, Opposite Lakeview, Piplod, Surat (October-2010).
13. Physical condition assessment and remedial measures for Anand Apartment, Co-Operative Society, Muglisara, Surat (July-2010).
14. Nondestructive test for emergency response center at Navagam, Road and Building Department, Government of Gujarat Surat (April-2009).
15. Nondestructive test for E W S housing scheme, Bhestan, Katira Construction Ltd. Surat (June-2009).

16. Nondestructive test and property physical condition assessment report for Boy's Hostel Building at Vir Narmad South Gujarat University, Udhna Magdalla Road, Surat (April-2011).
17. Nondestructive test and property physical condition assessment report for construction of H.R.D. Building at Vir Narmad South Gujarat University, Udhna Magdalla Road, Surat (April-2011).
18. Nondestructive test and property physical condition assessment report for extension of social science center building at Vir Narmad South Gujarat University, Udhna Magdalla Road, Surat (April-2011).
19. Nondestructive test and property physical condition assessment report for construction of Prathana Sabha Hall at Vir Narmad South Gujarat University, Udhna Magdalla Road, Surat (April-2011).
20. Destructive and nondestructive test and physical condition assessment report for M-20 concrete pavement for road work at four lane major district road from Dabel gate to Kalaria junction check post at Nani Daman (June-2011).
21. Destructive, nondestructive test and physical condition assessment report for residential building staff quarter at Sardar Soravar Narmada Dam Colony, Bharuch (August-2011).
22. Structural design proof checking of NDMS Sewage treatment plant, Gole Market, R K Ashram, New Delhi (November-2016).
23. Destructive, nondestructive test and physical condition assessment report for commercial building, "Samruddhi", Opposite Prannath Hospital, Beside Sanghvi Diamond, Ved road, Surat (November-2016).
24. Destructive, nondestructive test and physical condition assessment report for commercial building, "Meghmayur Mall", Behind Sanskarbharti School, Beside Gail Tower, Anand mahal road, Adajan, Surat (November-2016).
25. "Visual Inspection Report of "T.P. Scheme No. 15 (Fulpada), Plot No. 118 and 119, and T.P. Scheme No. 16 (Kapodra) Plot No. 47 EWS Residential Buildings", Executive Engineer, Slump Upgradation Cell, Old Zone Office, Tadwadi, Rander Road, Municipal Corporation, Surat (April-2017).
26. "Rising of Height of Security Boundary Wall, Phase-III from 2.4 m to 4.0m over and above 600mm Concertina Coll at Kazez Phase-3" National Building Construction Company (NBCC), India Limited, Unit: - KASEZ, Gandhidham (Gujarat), Plot no. 6, Sector-3, Kandala Special Economic Zone, Gnadhidham, Kutch- (April-2017).
27. "Re-Construction of 8 Nos. Type-II Quarters Residential Buildings and at Supply of High Mast" at Kazez Phase-3" National Building Construction Company (NBCC), India Limited, Unit: KASEZ, Gandhidham (Gujarat), Plot no. 6, Sector-3, Kandla Special Economic Zone, Gandhidham, Kutch- (April-2017).
28. "Custom Godown (G+2) (Warehouse) Buildings, and Shed No.113, Sector -1, and providing and fixing MS Barricading for Regulating the traffic from Custom Gate to HUL Circle" at KASEZ Phase-3" National Building Construction Company (NBCC), India Limited, Unit: - KASEZ, Gandhidham (Gujarat), Plot no. 6, Sector-3, Kandla Special Economic Zone, Gandhidham, Kutch- (April-2017).
29. Nondestructive Test and Physical Condition Assessment Report of Smt. Gangaben Rambhai Bhanabhai Patel "Gyan Ganga English Medium School" Vidyamangal School, Opp. Kamrej Sugar Factory | Off. NH-8, Navi Pardi (Near Kamrej), Located at Survey No: 135B, 140,141, "VIDYAMANGAL" Kadva Patidar Kelavani Mandal, Surat-394 150 | Gujarat, India, (February-2017).
30. Condition Assessment and Remedial Measures Report for Girl's Polytechnic Building at Athwalines, Nanpura, Surat, Executive Engineer, PWD Surat (R & B) Division No.1, Nanpura, Surat, (May-2017).
31. Preliminary site assessment report of "Shri Chandrashekhar N Ayachi's Residential Building Construction of 5 Domes above terrace of first floor on Plot No. 34, Amalgamated Survey No 142, Galpadar, Gandhidham Development Authority, Post Box No. 31, ADIPUR (Kachchh), (April-2017).
32. Structural design checking report of "Shri Chandrashekhar N Ayachi's Residential Building Construction of 5 Domes above terrace of first floor on Plot No. 34, Amalgamated Survey No 142, Galpadar, Gandhidham Development Authority, Post Box No. 31, ADIPUR (Kachchh), (April-2017).
33. Condition Assessment and Remedial Measures Report for Accountant General (AG) Colony Rajkot, Executive Engineer, CPWD Rajkot Central Division, Kothi Compound, Rajkot, (May-2017).
34. Condition Assessment and Remedial Measures Report for Income Tax Colony Rajkot, Executive Engineer, CPWD Rajkot Central Division, Kothi Compound, Rajkot, (May-2017).



35. Structural design checking report of sewage treatment plant (500 KLD) of New Delhi Municipal Council (NDMC) (November 2017).
36. Structural design checking report of sewage treatment plant (200 KLD) of NMDC, Jagdalpur (March 2017)

#### **INVITED LECTURES:**

1. Application of advanced composites for seismic strengthening of structures, at Nirma University, Ahmedabad (April 2017).
2. Application of advanced composites materials in construction, “Recent advances in concrete technology” at the S V National Institute of Technology, Surat (December 2016).
3. Utilization of Industrial and domestic waste as partial cement replacement materials for sustainable construction, Building future series, the Okanagan Institute (together with the Thompson-Okanagan Chapter of the Cascadia Green Building Council and the RAIC Centre for Architecture at Athabasca University) at Bohemian Cafe Bernard Street, Kelowna, (19<sup>th</sup> Sept. 2013).
4. Self-compacting concrete “Recent advances in concrete technology” at the S V National Institute of Technology, Surat (January 2009).
5. Business opportunity in civil engineering in India short term training program on “Techno entrepreneurship and its importance in technical education system” at the S. V. National Institute of Technology, Surat (January 2009).
6. High performance concrete in “Recent advances in concrete technology” at the S. V. National Institute of Technology, Surat (January 2010).
7. Earthquake resistant structures, National seminar on “Earthquake resistant structures” at the S. V. National Institute of Technology, Surat (September-2010),
8. Brief history of concrete and high-performance concrete at Vidya Bharti Polytechnic Campus, Umrakh-Surat (January 2010).

#### **SHORT TERM COURSES/WORKSHOP ORGANIZED at SVNIT, SURAT, INDIA:**

1. Organized AICTE approved short term training program on “Recent advances in concrete technology” at the S. V. National Institute of Technology, Surat during (12 to 16 Jan. 2009).
2. Organized AICTE approved short term training program on “Techno entrepreneurship and its importance in the technical education system” at the S. V. National Institute of Technology, Surat (29 Dec-2008 to 2 Jan. -2009).
3. Organized AICTE approved short term training program on “Advanced computing techniques in structural engineering at the S. V. National Institute of Technology, Surat (5 to 9 Jan. 2008).
4. Organized AICTE approved short term training program on “Recent advances in concrete technology” at the S. V. National Institute of Technology, Surat (25 to 29 Jan. 2010).
5. Organized National Seminar on “Earthquake resistant structures” at the S. V. National Institute of Technology, Surat (6 to 11th September-2010).

#### **SUBJECT TAUGHT BY ME IN UNDERGRADUATE AND GRADUATE LEVEL at SVNIT, Surat, INDIA as an Assistant Professor. L= Lecture, T = Tutorial, and P = Practical/Laboratory**

Course name	*UG = Undergraduate courses	Teaching scheme			Credit
		L	T	P	
AM-204: Engineering Mechanics (*UG)		3	2	2	4
AM-205: Mechanics of Solids (*UG) Mech. Eng.		3	-	2	4
AM-207: Mechanics of Solids (*UG) Civil Eng.		3	1	1	5
CE-201: Solid and Fluid Mechanics (*UG)		4	-	-	4
AM-206: Structural Analysis-I (*UG)		3	1	2	5
AM-408: Concrete Technology (*UG)		2	-	2	4
AM-309: Introduction to Earthquake Eng (EIS-I) (*UG)		3	1	-	4



AM-310: Machine Foundation (EIS-II) (*UG)	3	-	-	3
AM-407: Design of concrete Structures (*UG)	3	2	2	6
CE-409: Seminar (*UG)	-	-	2	1
CE-412: Capstone Project (*UG)	-	-	8	4
AM-704: Design of Earthquake Resistant Structures (Graduate)	3	1	-	4
AM-702: Finite Element Analysis (Graduate)	3	1	-	4
AM-706: Structural Dynamics (Graduate)	3	-	2	4
AM-712: Design of Pre-stressed Concrete Structures (Graduate)	3	1	-	4
AM-710: Rehabilitation of Concrete Structures (Graduate)	3	1	-	4

### List of Teaching Assistantship held in the Faculty of Applied Science at UBC Okanagan

Course	Term and Year	Position
APSC-181: Statics	Term-1, 2011	Marker
APSC 258: Applications of Eng. Design	Term-2, 2013	Laboratory and Tutorial
ENGR 325: Civil Engineering Materials	Term-1, 2013	Laboratory and Tutorial
APSC 258: Applications of Eng. Design	Term-2, 2014	Laboratory and Tutorial
APSC-181: Dynamics	Term-2, 2014	Laboratory and Tutorial
ENGR 325: Civil Engineering Materials	Term-1, 2014	Laboratory and Tutorial
APSC 258: Applications of Eng. Design	Term-2, 2015, 2016	Laboratory and Tutorial

### TRAINING COURSES ATTENDED:

1. Epicons Workshop 69: Inspection, repairs & rehabilitation of bridges, at VJTI, Matunga, Mumbai, (March 18, 2017).
2. Globe-2016 Conference, at Vancouver convention center (March 1, 2016).
3. One-Day Industrial Workshop on “Exploring a national network for the composite industry” at UBC, Vancouver (January 28, 2016).
4. Two-Day Industrial Workshop on “Composite materials engineering, A step by step approach” at UBC, Okanagan, Kelowna (June 4 & 5, 2015).
5. One-day seminar on seismic design using -CSA S6-14 (CHBDC) at Vancouver, May 21, 2015.
6. Three-day workshop on teaching assistant credential program at UBC, Okanagan, May-2012.
7. Workplace Hazardous Material Information System (WHMIS) at UBC, Okanagan, September-2011
8. Attended 2-day workshop on “Advance concrete mix design workshop” on, Organized by Abuja Cement Ltd. Surat (18<sup>th</sup> to 19<sup>th</sup> November-2010).
9. Short Term Training Program on “Analysis and design of high rise buildings using STADD. Pro.” at Sardar Patel College of Engineering, Mumbai (24<sup>th</sup> to 29<sup>th</sup> August-2009).
10. Short Term Training Program on “Advances in geotechnical engineering” at SVNIT Surat (29<sup>th</sup> Dec 2008 to 2<sup>nd</sup> January-2009).
11. Short Term Training Program on “Pedagogy and research methodology” at SVNIT Surat (19<sup>th</sup> to 23<sup>th</sup> January-2009).
12. short term training program on “software application and web-based learning tools in structural engineering” at SVNIT Surat (7<sup>th</sup> to 11<sup>th</sup> December-2008).
13. short term training program on “advanced engineering optimization through intelligent techniques” at SVNIT Surat (16<sup>th</sup> to 20<sup>th</sup> June-2008).
14. Attend 2 days short term introductory course on “I.S. 800-2007” at NIT Nagpur (29th to 30th April-2008).
15. Attend 5-day workshop on seismic design of steel structures at IIT Kanpur (20th to 24th March-2008).
16. Attend 5-day workshop on experiment techniques in earthquake engineering at IIT Kanpur (15<sup>th</sup> to 19<sup>th</sup> March-2008).

17. Short Term training program on “seismic resistance design & rehabilitation of structures” at Central Building Research Institute Roorkee (22<sup>th</sup> to 25<sup>th</sup> April-2008).
18. Induction Training Program on “Effective quality upgradation assistance for technical education” at SVNIT Surat (18<sup>th</sup> to 20<sup>th</sup> January-2008).
19. Short Term Training Program on “Recent trends in corrosion science, technology, monitoring and control” at SVNIT Surat (25<sup>th</sup> to 29<sup>th</sup> December-2007).
20. Short term training program on “Introduction to STADD Pro.” at NITTTR Chandigarh (25<sup>th</sup> to 29<sup>th</sup> August-2007).

**AREAS OF EXPERTISE:**

Seismic analysis and design; smart materials and their structural application (Shape memory alloys, Nano materials), seismic retrofitting of steel, concrete and masonry structures; recycle/reuse of industrial wastes for structural applications; finite element analysis; structural dynamics; constitutive relationship; application of composites materials-fiber reinforced polymer (FRP); sprayed-FRP, multi-criteria optimization; statistics.

Date: Friday, June 9<sup>th</sup>, 2017

Place: SV NIT Surat, India.

(Dr. Anant Parghi)