CURRICULUM VITAE

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Assistant Professor
Department of Mathematics
S.V National Institute of Technology Surat
(An Institute of National Importance)
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Current Position: **Assistant Professor** at the Department of Mathematics,
S.V National Institute of Technology Surat, Gujarat, India since November, 2006.

Education Details:

- **Ph.D.**: S.V National Institute of Technology **Surat, Gujarat**, India. (2007-12)
- **M.Sc.**: Sambalpur University, **Burla, Orissa.** (1999-2001)
- **B.Sc.**: Boudh Panchayat College ,**Boudh,Orissa.**

Area of Specialization: Differential Equation, Fluid Dynamics, Calculus of Variation and Integral Equations, Approximation theory, Numerical Analysis.

Research Area:

- Differential Equations
- Fractional Differential Equations
- Fluid Dynamics
- Fluid flow through Porous Media
- Approximation theory
- Numerical Analysis

Training Programme/ Camp organised

- ***No. of STTP/FDP of one-week/Four weeks' duration Organized as a Sole Coordinator:***
- ***Organized Four weeks "Mathematics Training and Talent Search Programme" (Level-0,1 and2)(MTTS)*** *sponsored by* ***NBHM, DAE, India*** **during 20th May-15th June-2013** as a sole coordinator.
- ***Organized*** *01 one week* **ISTE-SRMU** Sponsored **STTP** on "***Application of Mathematics in Real World Problems***" sponsored by ***ISTE and SRM University*** during **18th -22nd March-2013** as a sole coordinator.
- ***Organized*** *01 one week* **ISTE-PTU** Sponsored **Faculty Development Programme** on "***Mathematical Modelling in Science and Engineering***" sponsored by ***ISTE and Punjab Technological University*** during **23rd -27th June-2014** as a sole coordinator.
- **TEQIP** Sponsored STTP on "**Current Trends in Computational Methods for PDE and Fluid Mechanics**" during 19th -23rd August-2013 at SVNIT, Surat.
- **TEQIP** Sponsored STTP on "**Computational Flow and Transport: Modelling, Simulation and Algorithms**" during 24th -28th March-2014 at SVNIT, Surat.
- **TEQIP** Sponsored STTP on "**Computational Heat and Mass Transfer** "during 14th -18th December-2015 at SVNIT, Surat.
- **TEQIP** Sponsored STTP on "**Advances in Computational Heat and Mass Transfer**" **1st -5th August-2016** at SVNIT, Surat.
- **TEQIP** Sponsored STTP on "**Recent Advances in Computational Fluid Dynamics**" **13th -17th March-2017** at SVNIT,Surat.
- One day Seminar on **Mathematical Modelling and its application** at SVNIT,Surat.

Courses taught at SVNIT, Surat

- MM-204: Linear Algebra
- MM-305: Differential Equation
- MM-408: Calculus of Variation and Integral Equations
- MM-503: Differential Geometry
- ASM-101: Engineering Mathematics-I
- ASM-201: Engineering Mathematics-II
- MH-210: Engineering Mathematics-III

Courses taught at *Sambalpur University,Burla,Orissa* and at *VSSUT,Burla*

- Complex Analysis
- Partial Differential Equations
- Graph Theory
- Numerical Analysis
- Discrete Mathematics

Research/PG Projects guided

- PhD Guidance: **03** Submitted: **01** and Continuing: **02**
- MSc. Dissertation Guidance: **11** and Continuing: **06**

PhD Students

- **Dr. Hardik S. Patel** (Awarded on 01/03/18)
  Thesis Title: *Modelling and Simulation of Imbibition Phenomena in Two Phase Fluid Flow Through Porous Media arising in Oil Recovery Process*.
- **Dr. Trushit V. Patel** (Awarded on 19/03/18)
  Thesis Title: *An approximate Analytical Study of Fractional Order Fin-Type Problems by using Adomian Decomposition Sumudu Transform Method.*
- **Vimal P. Gohil**
  Thesis Title: *Analytical Study of Imbibition Phenomena in Two Phase Fluid Flow through Porous Media under the Effect of Magnetic Field Arising in Oil Recovery Process*
- **Nirav D.Patel (Likely to be submitted)**
  Thesis Title: *Approximate Analytical study of Jeffery Hamel flow by using Differential Transform Method.*
- **Rishikesh Yadav** (Cont.) (Area: Approximation Theory)
- **Juhi Kesarwani** (Cont.) (Area: Fluid Dynamics in porous media)

Awards & Honours

- Received ***Inspiration talk award*** in ***International*** **Conference** ***on Advances in Mathematics, Statistics & Computer Science, Dubai*** 2018.
- Awarded ***National Eligibility Test (NET)*** for Lectureship by the Council of Scientific and Industrial Research (CSIR), New Delhi, India, 2004.
- Qualified in the ***Graduate Aptitude Test in Engineering (GATE 2005)*** conducted at national level in India.

Invited talk and Chaired a session outside SVNIT

- Invited talk and Chaired a technical session in ***International*** **Conference** ***on Advances in Mathematics, Statistics & Computer Science Dubai*** 2018.
- Invited talk and Chaired a technical session in ***ICAR Sponsored Summer school on Numerical Technique and its application to agricultural and food engineering problems***, Anand Agriculture University, Anand,
- Invited talk and Chaired a technical session in ***International conference on current Trends in PDEs: Theory and Computations, South Asian University, New Delhi***, 28th - 30th Dec-2015
- Chaired a technical session in ***International Conference on Computational Heat and Mass Transfer-2015, National Institute of Technology, Warangal***, 30th Nov-02nd Dec-2015.

Invited talk and Chaired a session at SVNIT

- ISTE-SRMU Sponsored STTP on "**Application of Mathematics in Real World Problems**"during 18th -22nd March-2013 at SVNIT,Surat.

- TEQIP Sponsored STTP on "**Current Trends in Computational Methods for PDE and Fluid Mechanics**" during 19th -23rd August-2013 at SVNIT, Surat.
- TEQIP Sponsored STTP on "**Computational Flow and Transport: Modelling, Simulation and Algorithms**" during 24th -28th March-2014 at SVNIT, Surat.
- ISTE-PTU Sponsored FDP on "**Mathematical Modelling in Science and Engineering** "During 23rd -27th June-2014 at SVNIT,Surat.
- TEQIP Sponsored STTP on "**Computational Heat and Mass Transfer** "during 14th -18th December-2015 at SVNIT, Surat.
- TEQIP Sponsored STTP on "**Advances in Computational Heat and Mass Transfer**" **1st - 5th August-2016** at SVNIT, Surat.
- TEQIP Sponsored STTP on "**Recent Advances in Computational Fluid Dynamics**" **13th - 17th March-2017** at SVNIT,Surat.
- STTP on "**Advanced, Analytical and Numerical Techniques for Engineers and Scientist**" at SVNIT, Surat.
- Three days' **Workshop on Computational Fluid Dynamics** at SVNIT, Surat.
- One day Seminar on **Mathematical Modelling and its application** at SVNIT,Surat.

Member of Professional bodies

- Life Member of the **OMS** (Orissa Mathematical Society)
- Life Member of **ISTE** (Indian Society of Technical Education)
- Life Member of **IAENG** (International association of Engineers)
- Life Member of **ISDE** (International Society of Difference Equation)

Research Project

- Analytical treatment and convergence of the Adomian decomposition method for two phase flow processes in heterogeneous porous media arising in oil recovery process funded by S.V National Institute of Technology, Surat (Grant:Rs.5,10,000.00)(Completed)

Publications

Journal Publications:

- Effect of Heterogeneity on Imbibition phenomenon in fluid flow through porous media with different porous materials with magnetic fluids.
  Journal of Porous Media,2019. **(IF:1.061)** (with V.P Gohil)
- Analytical study of time fractional fractured porous medium equation under the effect of magnetic field. **DOI:** 10.1615/SpecialTopicsRevPorousMedia.2018026298
  Special Topics & Reviews in Porous Media: An International Journal ,2019. (with V.P Gohil) **(ESCI, Scopus)**
- Variable learning adaptive gradient based control algorithm for voltage source converter in distributed generation, doi: 10.1049/iet-rpg.2018.5213
  IET Renewable Power Generation,2018, (I.F:3.488) (with A. Giri, S. R Arya and R. Maurya)
- Effect of magnetic field on imbibition phenomenon in fluid flow through fractured porous media with different porous material. https://doi.org/10.1515/nleng-2018-0059
  Nonlinear Engineering 2018 (with V.P Gohil) **(Scopus)**
- Effect of Viscous Fluid on the Counter-Current Imbibition Phenomenon in Two-Phase Fluid Flow Through Heterogeneous Porous Media with Magnetic Field.
  DOI https://doi.org/10.1007/s40995-018-0627-4
  Iranian Journal of Science and Technology, Transactions A: Science, 1-12 ,2018 .**(IF:0.757)** (with V.P Gohil)
- Adomian decomposition sumudu transform method for solving a solid and porous fin with temperature dependent internal heat generation. **DOI** :10.1186/s40064-016-2106-8.
  ***SpringerPlus*, 5(1)**, 1-18, **(IF:0.982)** (with T.Patel)
- Simulation of Imbibition Phenomena in Fluid Flow through Fractured Heterogeneous Porous Media with Different Porous Materials. Vol. 10, No. 5, pp. 1451-1460, 2017.
  Journal of Applied Fluid Mechanics 10 (5).**(IF: 1.09)** (with H.S Patel)
- Simulation of Fingering Phenomena in Fluid Flow Through Fracture Porous Media with Inclination and Gravitational Effect. Vol. 9(6), pp.3135-3145,2016**.**

Journal of Applied Fluid Mechanics, **(IF: 1.09)** (with H.S Patel)

- A Study on Convective-Radial Fins with Temperature-dependent Thermal Conductivity and Internal Heat Generation. https://doi.org/10.1515/nleng-2017-0135.
  Nonlinear Engineering 2018 (with T.Patel) **(Scopus)**
- Effect of Heterogeneity on Imbibition Phenomena in Fluid Flow through Porous Media with Different Porous Materials. https://doi.org/10.1515/nleng-2017-0122.
  Nonlinear Engineering, 2018 (with H.S Patel) **(Scopus)**
- Modelling of Imbibition Phenomena in Fluid Flow through Heterogeneous Inclined Porous Media with different porous materials.
  Nonlinear Engineering 6 (4), 263-275, 2017 (with H.S Patel) **(Scopus)**
- Simulation of Counter-Current Imbibition Phenomenon with Corey's Model in Double Phase Flow Through Heterogeneous Porous Medium with Capillary Pressure.
  International Journal of Applied and Computational Mathematics 3 (4), 3817-3830 (with H.S Patel) **(Scopus)**
- Thermal Analysis of porous fin with uniform magnetic field using Adomian decomposition Sumudu transform method.
  Nonlinear Engineering 6 (3), 191-200, 2017 (with T.Patel) **(Scopus)**
- Modelling of Imbibition phenomena in two phase fluid flow through fracture porous media. **DOI:** https://doi.org/10.1515/nleng-2016-0057
  Nonlinear Engineering ,2016. (with H.S Patel) **(Scopus)**
- Adomian Decomposition Sumudu Transform Method for Convective Fin with Temperature-Dependent Internal Heat Generation and Thermal Conductivity of Fractional Order Energy Balance Equation. DOI https://doi.org/10.1007/s40819-016-0208-1.
  ***International Journal of Applied and Computational Mathematics*.** (withT. Patel) **(Scopus)**
- Analytical Investigation of Jeffery-Hamel flow by Modified Adomian Decomposition Method. DOI https://doi.org/10.1016/j.asej.2016.02.007 **,** *Volume 9, Issue 4, December 2018, Pages 599-606.*
  Ain-Shams Engineering Journal ,Elseiver(with H.S Patel) **(ESCI,Scopus)**
- Simulation of counter-current imbibition phenomenon in a double phase flow through fracture porous medium with capillary pressure. DOI https://doi.org/10.1016/j.asej.2016.09.017, Volume 9, Issue 4, December 2018, Pages 2163-2169.
  Ain-Shams Engineering Journal, Elsevier, (with H.S Patel) **(ESCI, Scopus)**
- A study on recovery rate for counter – current imbibition phenomenon with Corey's model arising during oil recovery process.
  Applied Mathematics and Information Sciences, 10, No. 5, 1877-1884, (2016), (with H.S Patel) **(Scopus)**
- A study on temperature-distribution and fin efficiency of convective straight fins with temperature dependent thermal conductivity of fractional order energy balance equation by using adomian decomposition sumudu transform method.
  International Journal of Pure and Applied Mathematics, Volume 110 No. 2 2016, 311-326. (with T.Patel) **(Scopus)**
- Application of homotopy analysis method for the solution of cubic boussinesq equation and boussinesq-burger equation.
  ***Communication in Applied Analysis*,** Vol. 20(3), pp.379-396,2016. (with V.P Gohil) **(Scopus)**
- Approximate Analytical Study of Counter-Current Imbibition Phenomenon in a Heterogeneous Porous Media.
  Applied Mathematical Sciences, Vol. 10, 2016, no. 14, 673 – 681, doi.org/10.12988/ams.2016.617**.** (with H.S Patel) **(Scopus)**
- Exponential Self Similar Solutions Technique for Instability Phenomenon Arising In

Double Phase Flow through Porous Medium with Capillary Pressure.
Applied Mathematical Sciences, Vol.4, No-27, pp-1329-1335,2010. **(**with M.N. Mehta and S.K. Meher) **(Scopus)**

- A new approach to Backlund Transformation for Longitudinal dispersion of miscible fluid flow through porous media in oil reservoir during secondary recovery process.
  Theoretical and Applied Mechanics, Vol.38(1),pp-1-16 ,2011. (with M.N. Mehta and S.K. Meher) **(Scopus)**
- Analytical Treatment and Convergence of the Adomian Decomposition Method for Instability Phenomena Arising during Oil Recovery Process.
  International Journal of Engineering Mathematics, Volume-2013 Article ID-752561, 2013. (with S.K. Meher)
- Series Solution for Porous Medium Equation arising in Fingero-Imbibition phenomenon during oil recovery process.
  Applied Mathematics and Information Sciences Letters, Vol.3(1), pp-25-30, 2015. (with S.K. Meher)
- A Study on Temperature Distribution, Efficiency and Effectiveness of longitudinal porous fins by using Adomian Decomposition Sumudu Transform Method.
  Procedia Engineering, Elseiver, Vol.127 (2015),PP- 751 – 758,2015. (with T.Patel) **(Scopus)**
- Analytical treatment and convergence of the Adomian decomposition method for fingero-imbibition phenomena arising during oil recovery process.
  Mathematical Sciences Letters, Vol. 5(3), pp.303-308,2016. (with S.K. Meher)
- Dispersion of Miscible Fluid in semi-infinite porous media with unsteady velocity distribution.
  International Journal of Mathematical Sciences and Engineering Applications, Vol. 3, No-IV, pp-199-208,2009.
- A new approach to Backlund Transformations of Burger Equation Arising in Longitudinal Dispersion of Miscible Fluid Flow through Porous Media.
  International journal of Applied Mathematics and Computation, Vol. 2, No-3, pp 17–24, 2010. (with M.N. Mehta and S.K. Meher)
- Adomian Decomposition method for Dispersion phenomena arising in Longitudinal Dispersion of Miscible Fluid Flow through Porous Media.
  Advances in Theoretical and Applied Mechanics, Vol. 3, No-5, pp-211-220,2010. (with M.N. Mehta and S.K. Meher)
- Adomian Decomposition Method for Moisture Content in One Dimensional Fluid Flow through Unsaturated Porous Media.
  International journal of Applied Mathematics and Mechanics, Vol. 6, N0- 7, pp 13-23,2010. (with M.N. Mehta and S.K. Meher)
- Adomian Decomposition Approach to Fingero-Imbibition Phenomena in Double Phase Flow through Porous Media.
  International journal of Applied Mathematics and Mechanics, Vol. **6**, No-9, pp- 34-46,2010. (with M.N. Mehta and S.K. Meher)
- Exponential Self Similar Solutions Technique for Imbibition phenomenon arising in Double Phase Flow through Porous Medium with capillary pressure.
  International journal of Applied Mathematics and Mechanics, Vol.7(8),pp-29-40 ,2011. (with M.N. Mehta and S.K. Meher)
- Instability Phenomenon Arising In Double Phase Flow through Porous Medium with Capillary Pressure.
  International journal of Applied Mathematics and Mechanics, Vol.7(15), pp-97-112, 2011. (with M.N. Mehta and S.K. Meher)
- A Solution of Infiltration problem arising in Farmland Drainage using Adomian Decomposition Method.
  British Journal of Applied Science and Technology, Vol.6(5): 477-485, 2015. (with T.Patel)

- An Efficient Technique for Solving Gas Dynamics Equation Using the Adomian Decomposition Method.
  International Journal of Conceptions on Computing and Information Technology, Vol.3(2),7/49-10/49 August- 2015. (with H.S Patel)
- Adomian Decomposition Sumudu Transform Method for Solving Fully Nonlinear Fractional Order Power-Law Fin-Type Problems.
  International Journal of Mathematics and Computation, Vol. 27(2),pp-7-16,2016 .(with T.Patel)
- Application of Laplace Adomian Decomposition Method for the soliton solutions of Boussinesq-Burger equations.
  International Journal of Advances in Applied Mathematics and Mechanics, Vol.3(2), pp.50-58,2016. (with H.S Patel)
- Application of modified Adomian decomposition method for solving higher order boundary value problem.
  International Journal of Mathematics and Computation, Vol. 27(3), pp.120-131, 2016. (with H.S Patel)
- Modified Adomian Decomposition Method for Solving Eleventh-order Initial and Boundary Value Problems.
  British Journal of Mathematics & Computer Science, Vol.8(2): 134-146, 2015. (with H.S Patel)
- Homotopy Analysis Method for solving counter current imbibition phenomena of the positive fractional type arising in heterogeneous porous media.
  International Journal of Mathematics and Computation, Vol. 28(2), pp.77-85,2017. (with V.P Gohil)
- Analytical investigation of Jeffery-Hamel flow with magnetic field by differential transform method,
  Int. J.Adv. Appl. Math. And Mech. 5(4) (2018)1–9 (ISSN:2347-2529) (with N.D Patel)
- Analytical Investigation of Jeffery-Hamel Flow by Differential Transform Method,
  International Journal of Engineering and Future Technology, 2019. (with N.D Patel)

Book Publication:

- Homotopy Perturbation ETM for solving Nonlinear Differential Equations, ***LAMBERT Academic Publishing, Germany***, ISBN:978-3-330-07827-7.

- Group Analysis Method for Solving Nonlinear Differential Equations, ***LAMBERT Academic Publishing, Germany***,ISBN:978-3-659-97147-1.(with S.K Meher**)**

Paper presented/ Participated in the Conferences:

- Analytical solution of higher order partial differential equation in a bounded domain, International conference on Numerical Heat Transfer & Fluid Flow (NHTFF18). **NIT, Warangal**, India January,19-21,2018. (Presented by J.Kesarwani)
- Application of Adomian Decomposition Sumudu Transform to Nonlinear Time-fractional Type Heat Transfer and Porous Media Equations**,** International Conference on Differential & Difference Equations and Applications (ICDDEA- 2017), **Amadora, Portugal**. June 5-9, 2017. (Presented by T. Patel)
- A Study on temperature distribution of porous fin with uniform magnetic field in vertical isothermal surface of fractional order energy balance equation by using Adomian decomposition sumudu transform method, International Conference on Computational Modeling & Simulation (ICCMS-2017), **Colombo, Srilanka**. May 17-19,2017. (Presented by T. Patel)
- Differential Transform Method for Solving for Fingero-Imbibition Phenomena Arising in Double Phase flow through Homogeneous Porous Media", International Conference On Mathematics & Computer Science – 2017 at **Bangalore, Karnataka,** India . during Feb 16-

18,2017.(Presented by N.D Patel)

- Solution of some problems of partial differential equation by using Homotopy Analysis Method**,** International Conference On Advances in Mathematics & Computer Science – 2017 at Virrudhnagar, **Tamilnadu, India.** during Dec 14-16,2017.(Presented by V.P Gohil)

- Differential Transformation Method for solving Kolmogrove-Petrovskii-Piskunov Equation and Porous medium equation, International Conference On Mathematics, Physics & Allied Sciences – 2016 at **Goa, India,** during **March** 03-05,2016. (Presented by N.D Patel)

- Thermal Analysis of Convective Fin with Temperature Dependent Internal Heat Generation and Thermal Conductivity by using Adomian Decomposition Sumudu Transform Method, International Conference on Applied Physics and Mathematics (ICAPM), **Bangkok, Thailand.** August, 21-22, 2016. (Presented by T. Patel)
- A Study on stabilization of fingers in counter - current imbibition phenomena for a slightly cracked porous medium, International Conference on Applied Physics and Mathematics (ICAPM), **Bangkok, Thailand**. August 21-22, 2016. (Presented by H. Patel)
- A Study on Temperature Distribution, Efficiency and Effectiveness of longitudinal porous fins by using Adomian Decomposition Sumudu Transform Method.,13th Winter School on Recent Trends of the Nonlinear Science of the DANCE network (RTNS), **University of Seville, Spain,** January, 25-29, 2016. (Poster Presentation by T. Patel)
- Application of Laplace Adomian Decomposition Method for the soliton solutions of Boussinesq -Burger equations". International Conference on Recent Trends in Mathematics (ICRTM 2015), Department of Mathematics, **University of Allahabad, Allahabad**, India, July 10-12, 2015. (Presented by H. Patel)
- Adomian Decomposition Sumudu Transform Method for solving a Fin with Temperature Dependent Internal Heat Generation and Constant Thermal Conductivity", International Conference on Recent Trends in Mathematics Department of Mathematics, **University of Allahabad**, July 10-12, 2015. (Presented by T. Patel)
- An Efficient Technique for Solving Gas Dynamics Equation Using the Adomian Decomposition Method", Proceeding of International Conference on Mathematics and Information Technology (ICMIT), **Colombo, Sri Lanka**, August 20-22, 2015. (Presented by H. Patel)
- A Study on Temperature Distribution, Efficiency and Effectiveness of longitudinal porous fins by using Adomian Decomposition Sumudu Transform Method, International Conference Computational Heat and Mass Transfer, **NIT Warangal**, India. Nov 30-Dec 2, 2015. (Presented by T. Patel)
- Application of Adomian Decomposition Method for Infiltration and Drainage Problem", 8th International Conference **MSAST 2015, Kolkata**, Dec 21-23, 2015. (Presented by T. Patel)
- A Study on saturation of wetting phase in instability phenomena arising in fluid through porous media by using Adomian Decomposition method", International Conference On Mathematics & Engineering Sciences (ICMES), **Chitkara University, Himachal Pradesh**, India. March 20-22, 2014. (Presented by T. Patel)
- Finite Element Solution of Boussinesq Equation For Infiltration Phenomenon". Proceeding of 19th Annual Cum 4th International Conference of Gwalior Academy of Mathematical Sciences (GAMS) on Advances in Mathematical Modeling to Real World Problem, **SVNIT, Surat, Gujarat**, India, October 3- 6,2014..(Presented by H. Patel)

Presentations

- Imbibition phenomenon arising in double phase flow through porous medium with capillary pressure, International Conference on Mathematics, Statistics & Computer Science **Dubai 2018, Feb** 09-10, 2018.
- A Study on counter – current imbibition phenomena for two phase flow process in a Homogenous porous media, International Conference on Computational Modeling &

Simulation (ICCMS-2017), **Colombo, Srilanka**. May 17-19,2017.

- Adomian Decomposition Sumudu Transform method for temperature distribution, fin efficiency and fin effectiveness of convective straight fins. International conference on current Trends in PDEs: Theory and Computations at **South Asian University, New Delhi**.28th -30th Dec-2015.
- Imbibition Phenomenon arising in double phase flow through porous medium with capillary pressure, Proceeding of the World congress of Engineering Vol-1,WCE-2011 July 6th -8th ,2011,**London,UK**.
- Longitudinal Dispersion of Miscible Fluid flow through porous media,4th International Conference on Advances in Mechanical Engineering,2010, **SVNIT, Surat.**
- Exponential Self similar solution technique for imbibition phenomenon arising in double phase flow through porous medium with capillary pressure. International Conference on Challenges and applications of mathematics in science and technology, **NIT, Rourkela**, India,11th -13th January-2010.
- Dispersion of Miscible fluid in semi-infinite porous media with unsteady velocity distribution International conference on computational partial differential equation at **IIT, Mumbai**, India,9th -13th Dec-2008.
- Exponential self-similar solution technique for instability phenomenon arising in double phase flow through porous medium with capilary pressure, Annual Conference of Orissa Mathematical Society, **IGIT, Sarang,Orissa.**

Seminars / Workshops Participated

- **Advanced Instructional School on "**Differential Topology" 15th Jun-04th July-2015, NEHU, Shillong.
- **KAUST-CIMPA Research** School in "Applied Mathematics on Uncertainty Quantification",5th -12th January-2012.
- **King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.**
- **CIMPA-UNESCO-MESR-MICINN-APSA-SOUTH AFRICA** Research school on "Modelling and Simulation in Population Biology"13th -18th June-2011, **African Institute of Mathematical Sciences, Muizenberg, Cape town, South Africa.**
- **CIMPA-UNESCO-MICINN-THAILAND** Research school on "Spectral Triples and their applications"22nd May-04th June-2011, **Chulalongkorn University, Bangkok, Thailand.**
- **Advanced Instructional School on** "Partial Differential Equation"15th Dec-2008 to 6th January-2009.TIFR Center for Applicable Mathematics, Bangalore, India,
- **STTP on** "Sustainable Water and Waste Management Technique" 27th -31st July-2009, S.V National Institute of Technology, Surat, India
- **STTP on** "Advanced in Condensed Matter Physics"31st –Aug to 4th Sept-2009, S.V National Institute of Technology, Surat, India
- **Workshop on** "Operator Theory",7th Dec-12th Dec-2009, Institute of Mathematics and Applications, Bhubaneswar, India.
- **Induction Training Programme,**18th -20th January-2008, Effective quality upgradation assistance for technical education, New Delhi at S.V National Institute of Technology, Surat, India.
- **Pedagogy Training,**12th -15th May-2008, Effective quality up-gradation assistance for technical education, New Delhi at S.V National Institute of Technology, Surat, India
- **Training on Research Methodology in Engineering,**16th -17th May-2008.Effective quality up-gradation assistance for technical education, New Delhi at S.V National Institute of Technology, Surat, India
- **Mathematics Meet-2008,**28th -29th –March-2008, Gujarat University, Ahmedabad, India
- **ATM School for Lecturers on** "Real Analysis",4th -16th June-2007, Ramanujan Center of Higher Mathematics, Allagappa University, Tamilnadu, India.
- **STTP on** "Application orientation in Engineering Mathematics and Mathematical Modelling",26th -30th Dec-2006
- S.V National Institute of Technology, Surat, India.

- **International Conference** of Indian Mathematical Society,27th -30th Dec-2010, S.V National Institute of Technology, Surat, India.
- **International Conference** in honour of Late Prof.S. L Yadav,7th -9th January-2009, TIFR CAM, Bangalore.
- **International Conference** on Computational Heat and Mass Transfer-2015 During 30th Nov-02nd Dec-2015, NIT, Warangal.

Reviewer

- Journal of Transport in Porous Media, Springer Publication.
- Journal of Porous Media
- Special Topics and Reviews in Porous Media
- Mathematical Method in applied Sciences
- Journal of Applied Fluid Mechanics.
- Ain-shams Engineering Journal, Elsevier.
- Applied Mathematics and Information Sciences
- Journal of Applied Mathematics and Computational Mechanics

Details of Foreign visit

- International Research Conference**, Dubai,** Feb:8-9,2018.
- University of Colombo, Colombo**, Srilanka,** May:17-19,2017.
- King Abdullah University of Science and Technology, **Thuwal, Saudi Arabia,** 5th -12th January-2012.
- African Institute of Mathematical Sciences, Muizenberg, **Cape town, South Africa,** 13th -18th June-2011.
- Chulalongkorn University, **Bangkok, Thailand,** 22nd May-04th June-2011.
- Imperial college, **London, UK,** July 6th -8th , 2011.

Administrative and other Responsibility at SVNIT, Surat

- Co-Ordinator Tme Table Committee, June-2011-July-2015
- Course Coordinator (B.Tech-I,Engg.Math-I and II),June-2010-July-2015
- UG In Charge (Mathematics),2011-continuing
- PG In charge (Mathematics),2008-09.
- Coordinator, MSc. Examination,2008-09.
- Lab In charge MSc,2008-09.
- Coordinator, Departmental Library,2008-09.
- Coordinator, Purchase Committee,2011-15.
- Coordinator, MSc Admission and Registration,2011-15.
- Co-Coordinator (AMHD) Student council Election-2014-2017.
- Coordinator, TEQIP (Departmental),2015-17 and 2017-19.
- Coordinator, Examination,2011-13.
- Institute level anti ragging squad,2015-16.
- Member Institute level Anti ragging committee/squads,July-2011-cont.

(Dr. Ramakanta Meher)