

Brief Resume



- 1.0 Name, Designation & Date of joining** Dr. P L Patel,
Professor
Department of Civil Engineering
July 03, 2007
- 2.0 Age as on date** March 20, 1966 (51 years)
- 3.0 Name of the Institution** S V NIT, Surat
- 4.0 Department** Civil Engineering
- 5.0 Field of Specialization** Water Resources Engineering
- 6.0 Academic Qualifications** B E (Civil)Hons.,
M E (Civil)Hons., PhD
(University of Roorkee, Now IIT Roorkee)
- 7.0 Technical Qualifications** B E (Civil)Hons.,
M E (Civil)Hons., PhD
(University of Roorkee, Now IIT Roorkee)
- 8.0 Previous Experiences** Joined Border Roads organization as Assistant Executive Engineer through Indian Engineering Services (Sep.1995- June 99)

Served Delhi College of Engineering (Now DTU) from July 99 to Jun 2007 as Reader in Department of Civil Engineering
- 9.0 Awards / Prizes / Certificates etc.**
- ❖ **The Research paper** ‘A 1D-2D coupled Hydrodynamic model for river flood prediction in a coastal urban flood plain’, **Journal of Hydrologic Engineering (ASCE)**, Vol. 20(2), pp. 05014017-(1-18), Feb. 2015, by Timbadiya P.V., Patel, P. L. and Porey, P. D. is awarded as **BEST CASE STUDY - 2015** by **EWRI congress – May 2016 ASCE, Florida, USA.**
 - ❖ **The Research project** ‘Erosion of non-uniform and bimodal sediments’ sponsored by Department of **Science and Technology (DST)** was rated under ‘**Excellent**’ grading during the review and final project completion presentation

- ❖ A guided PhD Thesis titled ‘Incipient Motion and Bed Load Transport Characteristics of Unimodal and Bimodal Sediments by (DS08 CE 106) Shaileahkumar B Patel, has been awarded **Professor U C Kothyari Best PhD Thesis award of Indian Society for Hydraulics for year 2012-2013** in HYDRO-2013 at IIT Madras.
- ❖ The **G M Nawathe Best Paper Puruskar** was awarded for best paper, ‘Sustainable Irrigation Planning using two phase Multi-Objective Fuzzy linear programming approach’ presented in HYDRO-2012 at IIT Bombay.
- ❖ **Invited for the talk** on ‘Impact of climate change on fluvial processes’ in International workshop on ‘Impacts of global warming from hydrological and hydraulic issues, March 16, 2010, Uji campus, **Kyoto University, Japan**.
- ❖ The **G M Nawathe Best Paper Puruskar** was awarded for best paper, ‘Incipient motion conditions of nonuniform sediments’ presented in HYDRO-2003 at CWPRS Pune.
- ❖ Recipient of **Visiting International Fellowship (VIF-2017) 2017** for attending ASCE EWRI Congress-2017 at Sacramento, California, USA, May 21-25, 2017.

10.0 Research projects completed/ongoing as Chief Coordinator:

Research projects completed: 03

Research projects ongoing: 02

Sr. No.	Name of the funding agency	Name of the Scheme	Programme Title	Year of Funding	Duration	Amount Sanctioned (Rs.)	Status: Completed/ Ongoing
1.0	DST	FIST	Recirculating sediment transport flume	2015	2 year	1.75 Crores	Ongoing
2.0	TEQIP-II	World Bank and MHRD	Centre for excellence on Water Resources and Flood Management	2013	4 year	4.20Crores	Completed
3.0	MHRD New Delhi	ICT	Development of course on “Hydrology and Flood Control”	2014	1.5 Year	7 Lakhs	Completed
4.0	DST	SERC	Erosion of Non uniform unimodal and bimodal sediments	2009	Four years	31.89 Lakhs	Completed
5.0	AICTE	NCP	Development of water resources and flood management centre	2009	Four Years	35 Lakhs	Completed

11.0 Publications (Peer Reviewed Journals and Magazine/Conference Proceedings)

International Journal :	15
National Journal :	17
International Magazine Articles:	02
International Conference :	41
National Conference:	43
Total:	118

Sr. No.	Title of Research Paper	Author(s)	Name & Vol. of Journal with Year
Refereed Journal :			
1	Fractionwise calculation of bed load transport	Patel, P. L. and Ranga Raju, K. G.	Journal of Hydraulic Research, IAHR, Vol.34, No.3.pp 363-379
2	Critical tractive stress of nonuniform sediments	Patel, P. L. and Ranga Raju, K. G.	Journal of Hydraulic Research, IAHR, Vol. 37, No.1, pp 39-58
3	Entrainment Characteristics of Nonuniform Unimodal and Bimodal sediments	P. L. Patel, P. D. Porey, A. D. Ghare and S. B. Patel	Korean Society of Civil Engineering (KSCE), Springer, Journal of Civil Engineering, Vol. 13, No.3. Feb.2009, pp189-194.
4	Computation of Critical Tractive Stress of Scaling Sizes in Nonuniform Sediment	P. L. Patel, P. D. Porey, and Shaileshkumar B. Patel	Journal of Hydraulic Research, IAHR, Vol.48 (4), pp. 531-537, 2010.
5	Calibration of HEC-RAS model on prediction of flood for lower Tapi River	P V Timbadiya P. L. Patel, P. D. Porey	Journal of Water Resources and Protection, Scientific Research, Vol. 3, pp. 805-811, 2011,
6	Application of Innovative Trend Analysis Methodology and Distribution Fitting: Study on annual peak inflow into	P V Timbadiya P L Patel P D Porey	Water & Energy International, CBIP, Vol.69, No.9, pp.40-43, Sep.2012.
7	Threshold for initiation of motion of unimodal and bimodal sediments	S B Patel P L Patel P D Porey	International Journal of Sediment Research (IJSR), Elsevier, Vol. 28(1), pp. 24-33, March 2013
8	Development of sustainable irrigation planning with multiobjective fuzzy linear programming for Ukai –	A B Mirajkar P L Patel	Canadian Journal of Civil Engineering, Vol.40, No.7, pp.663-673, May 2013
9	Estimation of fractional critical Tractive stress from fractional bed load transport measurements of unimodal and	S B Patel P L Patel P D Porey	Measurement, Elsevier, Vol. 47, January 2014, Pages 393-400.
10	One-dimensional hydrodynamic modelling of flooding and stage hydrographs in the lower Tapi River in India	P. V. Timbadiya P. L. Patel P. D. Porey	Current Science, Vol. 106(5), pp. 708-716, 10 March 2014

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| 11 | A 1D-2D coupled Hydrodynamic model for river flood prediction in a coastal urban flood plain | P V Timbadiya
P L Patel
P D Porey | Journal of Hydrologic Engineering (ASCE), Vol. 20(2), pp. 05014017-(1-18), Feb. 2015. |
| 12 | Fractional bed load transport model for unimodal and bimodal sediments | S B Patel
P L Patel
P D Porey | Journal of Hydro-Environment Research, Elsevier, Vol. 9, pp. 104-119, March 2015 |
| 13 | Lumped conceptual hydrologic model for Purna river basin, India | V D Loliyana
P L Patel | Sadhana Journal, Springer, Vol. 40(8), pp. 2411-2428, Dec 2015 |
| 14 | Prediction of sediment erosion pattern in Upper Tapi basin | Prabhat Chandra
P L Patel
P D Porey | Current Science, Vol. 110(6), pp. 1038-1049, March 2016. |
| 15 | Multi-objective two- phase fuzzy compromised approaches in integrated management of water resources | A B Mirajkar
P L Patel | Journal of Water Resources and Planning Management, ASCE, Vol. 122 (11), pp. 04016046- 1-16, November 2016. |
| 16 | Critical tractive stress of nonuniform and Bimodal sediments | Patel, P. L. and
Pati, D. R. | Journal of Hydraulic Engineering, ISH, Taylor and Francis, Vol. 12(1). pp 39-51, 2006. |
| 17 | Bed load Transport of Bimodal Sediments | Patel, P L and
Jain, Mayank | Journal of Hydraulic Engineering, ISH, Taylor and Francis, Vol. 15(1), pp.14-23, 2009. |
| 18 | Critical Tractive Stress of Representative Sizes in Nonuniform Sediments | P. L. Patel,
P. D. Porey, and
S. B. Patel | Journal of Hydraulic Engineering, ISH, Vol. 15(3), pp. 41-50, 2009. |
| 19 | Flood Forecasting in Tapi Basin: A Scope for Improvement | P V Timbadiya
P. L. Patel
P. D. Porey | Journal of Applied Hydrology, AHI, Vol. XXIII, No.3 & 4, 2010, pp.44-52 |
| 20 | HEC-RAS based Hydrodynamic model in prediction of stages of lower Tapi River | P V Timbadiya
P. L. Patel,
P. D. Porey | Journal of Hydraulic Engineering, Indian Society (ISH), Vol.17, No.2, pp.110-117, 2011. |
| 21 | A Fuzzy Based Optimal Irrigation Planning for Kakrapar Right Bank Canal Command Area, Gujarat, India | A B Mirajkar
P L Patel | Journal of Hydraulic Engineering, Indian Society (ISH), Vol.17 (1), No.3, pp. 110-117, January 2011. |
| 22 | Prediction of Missing rainfall data using conventional and artificial neural network. | U C Roman
P L Patel
P D Porey | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, Volume 18(3), pp. 224-231, September 2012. |
| 23 | Optimal Irrigation Planning of Kakrapar Right Bank Canal Using Two Phase Fuzzy Multi-objective Linear Programming Model | A B Mirajkar
P L Patel | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol.18(3), pp. 232-240, Sep. 2012. |

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| 24 | Effect of Silt Erosion on Francis Turbine: A case study of Maneri Bhali Stage-II, Uttarakhand | Mandeep Singh
J Banerjee P L
Patel Himanshu
Tiwari | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK; Vol. 19(1), pp. 1-10, March 2013 |
| 25 | Identification of Trend and Probability Distribution for Time Series of Annual Peak Flow in Tapi Basin | P V Timbadiya
A B Mirajkar
P L Patel
P D Porey | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 19 (1), pp. 11-20, March 2013. |
| 26 | Prediction of friction factor and stage-discharge relationship in alluvial streams | B.R. Andharia,
P.L. Patel,
V.L. Manekar & P.D. Porey | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 19(1), pp. 49-54, March 2013. |
| 27 | Reply to the discussion on the paper: prediction of missing rainfall data using conventional and artificial neural network techniques by ISH Journal of Hydraulic Engineering, 18 (3), 224-231, Sept. 2012 | U C Roman
P L Patel
P D Porey | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK
Vol. 19(2), pp. 78-79, June 2013. |
| 28 | Reply to discussion on paper: Prediction of friction factor and stage-discharge relationship in alluvial streams in ISH journal of hydraulic engineering, 19 (1), 49-54, Feb. 2013 | B.R. Andharia,
P.L. Patel,
V.L. Manekar & P.D. Porey | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK
Vol. 20(2), pp.188-191, May 2014. |
| 29 | Development of Two-layered model for compound open-channel flow | J Sinha
S K Das
P L Patel
B K Samtani | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 20 (3), pp 250-262, Sep. 2014. |
| 30 | Estimation of sediment yield using SWAT model for Upper Tapi basin | Prabhat Chandra
P L Patel
P D Porey
I D Gupta | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 20 (3), pp 291-300, Sep. 2014. |
| 31 | Characterization of flow turbulence in mobile boundary channels | Sudhanshu Dixit
P L Patel | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 21(2), pp. 179-192, 2015. |
| 32 | Efficient discretization of state variables in stochastic dynamic programming model of Ukai reservoir, India | Priyank Sharma
P L Patel
V Jothiprakash | ISH Journal of Hydraulic Engineering, Taylor and Francis publisher, UK, Vol. 22(3), pp. 293-304, 2016. |

International Magazine proceedings:

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| 1 | Fluvial Mechanics: Impact of climate change on sediment yield from river basins | P. L. Patel | IAHR Hydrolink – Climate Change Special Magazine, Vol. 3, 2013, pp. 74-75. |
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| 2 | Summary of recommendations for policy makers on adaption to climate change in water engineering | P. L. Patel
Ramesh Teegavarapu
James Ball
Eiichi Nakakita
Andre Paquier
Sang-II Lee
Carlos Galvao
Gregory De Costa
A-A. Ahmed
E. Kolokyatha
Yangwen Jia
Young-Oh Kim | IAHR Hydrolink – SPH (Smoothed Particle Hydrodynamics) in Hydraulics Special Magazine, Vol. 3, 2015, pp. 93-95. |
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International Conference/Seminar/Symposium:

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| 1 | Semi-theoretical approach on transport of coarse sediments | Patel P L
Durga Sai K. | Proceeding of an International Conference on “Hydraulic Engineering: Research and Practice (ICON-HERP-2004)” |
| 2 | River stage Simulation using HEC-RAS | P. V. Timbadiya
P. L. Patel
P. D. Porey | Proceeding of 3 rd International Congress on Computational Mechanics and Simulation-2009, at IIT- Bombay during 1-5 December, 2009. |
| 3 | Optimization of irrigation area of URBMC – A Linear Programming Approach | Nishi Bhuvandas,
A.B.Mirajkar,
P.V.Timbadiya,
P.L.Patel | AIP conference procedeeding Volume-1324, International conference on Methods and Models in Science and Technology (ICM2ST-10) held at Chandigarh on Dec. 25-26, 2010. |
| 4 | Optimal Irrigation Planning By Stochastic Linear Programming Approach For Ukai Irrigation Project | A. B. Mirajkar
P. L. Patel | Indo-Italian workshop in Hydrology, CWPRS, Pune, Maharashtra, September, 15-16, 2011. |
| 5 | Recent Trend Analysis for Annual Peak Flow in Tapi Basin | P V Timbadiya
A B Mirajkar
P L Patel
P D Porey | International conference on “India Water Week-2012”, organized by Central Water Commission, held at New Delhi. |
| 6 | Geomorphic effectiveness of flood on lower Tapi River, India using 1D hydrodynamic model | P. V. Timbadiya
P. L. Patel
P. D. Porey | International Conference on Hydro-system and Engineering-2012, Orlando, USA at University of Central Florida (UCOF), Orlando, USA organized by UOCF in association with EWRI-ASCE, IAHR, IIHR etc. during November 4-7, 2012. |
| 7 | Calibration of channel and flood plain roughness using 1D/2D integrated hydrodynamic model : A study of Surat city on lower Tapi River | P. V. Timbadiya
P. L. Patel
P. D. Porey | International Conference on Hydro-system and Engineering-2012, Orlando, USA at University of Central Florida (UCOF), Orlando, USA organised by UOCF in association with EWRI-ASCE, IAHR, IIHR etc. during November 4-7, 2012. |

8	Multi-objective fuzzy linear programming under uncertain resource parameters	A. B. Mirajkar P. L. Patel	International Conference on Hydro-system and Engineering-2012, Orlando, USA at University of Central Florida (UOCF), Orlando, USA organized by UOCF in association with EWRI-ASCE, IAHR, IIHR etc. during November 4-7, 2012.
9	Experimental study on initiation of motion and bed load transport of unimodal and bimodal sediments	S. B. Patel P. L. Patel P. D. Porey	Proceedings of the 35 th IAHR world congress 2013 at Chengdu, China during September 9-13, 2013, Vol. 5(1), paper No. A10517.
10	Analysis of trends and variability in time series of extreme daily rainfall in Tapi basin, India	Nishi Bhuvandas P. V. Timbadiya P. L. Patel P. D. Porey	Proceedings of the 35 th IAHR world congress 2013 at Chengdu, China during September 9-13, 2013, Vol. 8(3), paper No. A11949.
11	Fuzzy Programming Models for Optimal Irrigation Planning Under Uncertain Resource Conditions	Mirajkar, A. B. Patel, P. L.	Proceedings of the 18 th HYDRO – 2013 International held at IIT Madras, Chennai, during Dec. 4-6, 2013.
12	Ukai reservoir operation simulation using HEC-ResSim	Timbadiya, P. V., Mirajkar, A. B., Patel, P. L.	Proceedings of the 18 th HYDRO – 2013 International held at IIT Madras, Chennai, during Dec. 4-6, 2013.
13	Conceptual Rainfall-Runoff Model for Gopalkheda subcatchment (Maharashtra, India) using MIKE11 NAM Model	Loliyana, V. D., and Patel, P. L.	Proceedings of the 18 th HYDRO – 2013 International held at IIT Madras, Chennai, during Dec. 4-6, 2013.
14	Sediment yield modeling for upper Tapi basin	Prabhat Chandra, Patel, P. L., Porey, P. D., and Gupta, I. D.	Proceedings of the 18 th HYDRO – 2013 International held at IIT Madras, Chennai, during Dec. 4-6, 2013.
15	Mathematical modeling of aggradation in alluvial channels	Andharia, B. R., Patel, P. L., Manekar, V. L., and Porey, P. D.	Proceedings of the 18 th HYDRO – 2013 International held at IIT Madras, Chennai, during Dec. 4-6, 2013.
16	Review of Downscaling Methods in Climate Change and Their Role in Hydrological Studies	Nishi Bhuvandas, Timbadiya, P. V., Patel, P. L., and Porey, P. D.	International conference on Environmental, Ecological, Geological and Mining Engineering World Academy of Science, Engineering and Technology, held at Dubai, 2014
17	Calibration and validation of hydrologic model for Yerli sub-catchment (Maharashtra, India)	V. D. Loliyana P L Patel	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
18	Performance of multi purpose reservoir using simulation models for different scenarios	P J Sharma P L Patel V Jothiprakash	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.

19	Characterization of turbulence in mobile boundary channels	Dhvani Patwa P L Patel P V Timbadiya	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
20	Development of IDF curve: A study for Dholera region of Gujarat, India	Ankit Patel P V Timbadiya P L Patel	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
21	Turbulence characteristics over a fluvial channel bed	Sudhanshu Dixit P L Patel	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
22	Trend detection and forecasting of annual precipitation in Tapi basin, India using singular spectrum analysis (SSA)	Nishi Bhuvandas P V Timbadiya P L Patel P D Porey	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
23	Experimental and numerical studies on aggradation for alluvial stream bed	Andharia, B. R., Patel, P. L., Manekar, V. L., and Porey, P. D.	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
24	Contrast in sediment yield patterns of subcatchments of upper Tapi basin	Prabhat Chandra, Patel, P. L., Porey, P. D., and Gupta, I. D.	Proceedings of the 19 th HYDRO – 2014 International held at MANIT Bhopal, during Dec. 17-19, 2014.
25	Investigation of long-term trends and temporal variability of rainfall in Surat district, Gujarat	P J Sharma V D Loliyana Resmi S R Apoorv Tripathi Garima Nagpal	International conference on “India Water Week-2015”, organized by Central Water Commission, held at New Delhi during Jan. 13-17, 2015.
26	Flood inundation mapping of Surat city using 1D-2D coupled hydrodynamic model	P V Timbadiya P L Patel P D Porey	International conference on “India Water Week-2015”, organized by Central Water Commission, held at New Delhi during Jan. 13-17, 2015.
27	Trend analysis of climate variables and their impact on stream flow using NAM model	V. D. Loliyana P L Patel	Proceedings of the 36 th IAHR world congress 2015 at The Hague, Netherlands, during June 28-July 3, 2015.
28	Experimental investigation of turbulent bursting events in weakly mobile channel bed	Dhvani Patwa P L Patel P V Timbadiya	Proceedings of the 36 th IAHR world congress 2015 at The Hague, Netherlands, during June 28-July 3, 2015.
29	A simulation – optimization approach in development of operation policy of a multipurpose reservoir	P J Sharma P L Patel V Jothiprakash	Proceedings of the 36 th IAHR world congress 2015 at The Hague, Netherlands, during June 28-July 3, 2015.
30	Development of IDF curve under non-stationary meteorological condition	Ankit Patel P V Timbadiya P L Patel	Proceedings of the 36 th IAHR world congress 2015 at The Hague, Netherlands, during June 28-July 3, 2015.
31	Distributed surface water flow model for Gopalkheda sub-catchment, Maharashtra, India	V D Loliyana P L Patel	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.

32	Assessment of Regional Flood Frequency Model for the Upper Tapi Basin, India	Resmi S R P L Patel	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.
33	Identification of regional frequency model for rainfall based on spatial clustering in lower Tapi basin, India	Garima Nagpal P L Patel	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.
34	Stochastic Modelling for Inflow Prediction into Ukai Reservoir, India	Priyank Sharma P L Patel V Jothiprakash	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.
35	A 2-D Hydrodynamic Model for Urban Flood Plain of Surat City, India	Apoorv Tripathi P V Timbadiya P L Patel	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.
36	Sediment management modelling in Upper Tapi basin	Prabhat Chandra P L Patel P D Porey	Proceedings of the 20 th HYDRO – 2015 International held at IIT Roorkee, during Dec. 17-19, 2015.
38	Regional flood frequency relationship for the upper tapi basin	Resmi S R P L Patel	Proceedings of International Conference, ICWEES-2016, Bhopal during March 14-18, 2016.
39	Physics based distributed overland flow modeling for Yerli sub-catchment, Maharashtra, India	V D Loliyana P L Patel	Proceedings of the 20 th IAHR IAHR APD 2016 at The Colombo, Sri Lanka, during August 28-31, 2016.
40	Seasonal Stochastic Model for Long Term Reservoir Inflow Forecasting for Ukai Reservoir, India	Priyank Sharma P L Patel V Jothiprakash	Proceedings of the 20 th IAHR IAHR APD 2016 at The Colombo, Sri Lanka, during August 28-31, 2016.
41	Aggradation in mobile boundary channel due to overloading of sediments	P Laxmi Narayana P V Timbadiya P L Patel	Proceedings of the 20 th IAHR IAHR APD 2016 at The Colombo, Sri Lanka, during August 28-31, 2016.

National Conference/ Symposium/ Seminar:

1	Characteristics of flow past Ski-jump bucket,	Patel, P. L., Asawa, G.L., and Ranga Raju, K.G.	NASORT in Design of Hydraulic Structures, Deptt. of Civil Engg, University of Roorkee, pp 143-151, 1994
2	An evaluation of fractionwise calculation of bed load	Patel, P. L., Ranga Raju, K. G	NASORT in Design of Hydraulic Structures, Deptt. of Civil Engg, University of Roorkee, pp265-272, 1994
3	Criteria for movement of nonuniform sediments-An overview	Patel P L	HYDRO 2000, Recent advances in Hydraulic and Water Resources, Deptt. of Civil Engg., Regional Engineering College, Kurukshetra, pp 216-223
4	Lift and drag model for transport of coarse sediments	Patel P. L. Ghosh, M. D.	HYDRO 2001, National conference on Hydraulics and Water Resources, CWPRS, Khadakwasla, Pune, pp 237-283
5	Model study of a ski-jump type energy dissipator	Mazumder, S. K. Patel, P. L	HYDRO 2001, National conference on Hydraulics and Water Resources, CWPRS, Khadakwasla, Pune, pp 425-432

6	Measures for silt free water in power canal	Patel, P. L.	National Workshop on 'Water Quality (Including drinking water)' Feb. 2002 held at Jawahar Lal Nehru University, New Delhi.
7	An evaluation of critical tractive stress of nonuniform sediments	Patel, P. L.	National Conference on Advances in Civil Engineering, Deptt of Civil Engg., HBTI, Kanpur, pp 452-457
8	Incipient motion conditions of nonuniform sediments	Patel, P. L., Sharma A. K.	National Conference on Hydraulics and Water Resources, HYDRO 2003, December 26-27, 2003, Khadakwasla, Pune, pp 183-
9	Sediment transport concepts in design of power canals and silt exclusion devices	Patel, P. L.	Proceeding of a National Seminar on Safety and Quality management in development of Uttranchal, organized by Institution of Engineers, June 24, 2004, pp.241-245.
10	Prediction of critical tractive stress of nonuniform and bimodal sediments	Patel, P. L.	Proceeding of a National Conference HYDRO-2005, Dec. 08-09, SIT Tumkur, pp.668-674.
11	Critical submergence of ski-jump bucket: An analytical approach,	Patel P L and Shrivastava Vishal	Proceeding of a National Conference HYDRO-2006, Dec. 08-09, SIT Tumkur.
12	Probabilistic model in prediction of nonuniform sediment bed surface under equilibrium condition	Goyal Kanhaiya and Patel P L	Proceeding of a National Conference HYDRO-2007, Dec. 21 -22, SVNIT Surat, pp 297-305.
13	Study of Mobility Index of Sarangkhedga gauging station of Tapi River	Anajwala J. Nitisha, Patel P L and Samtani B K	Proceeding of a National Conference HYDRO-2007, Dec. 21 -22, SVNIT.
14	Stream flow forecasting using Deterministic approach for Sabarmati River Basin	P.V.Timbadiya A.D.Ghare P.L.Patel P.D.Porey	Proceeding of 13th National Seminar symposium on Hydrology with focal theme on "flow forecasting during Extremes", 28-29, August 2008, IIT-Delhi.
15	Computation of Bed load transport of nonuniform bimodal sediments	P L Patel, P D Porey Jain Mayank	Proceeding of Indian National conference on Advances in Hydraulic engineering with special emphasis on Model-Prototype Conformity, INCAHE-2008, Nov. 6-7. 2008., pp.184-188.
16	Critical Tractive Stress of Representative Sizes in Nonuniform Sediments	P. L. Patel, P. D. Porey, and Shaileshkumar B. Patel	Proceeding of a National Conference HYDRO - 2008, MNIT, JAIPUR (INDIA), pp. 366-374. Dec. 15 -16, 2008.
17	Stream flow forecasting using ANN approach for Sabarmati River Basin	Timbadiya P V Patel P L Porey P D	Proceeding of a National Conference HYDRO-2008, Dec. 15-16, 2008 held at MNIT Jaipur, pp.254-263.

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| 18 | Flood Forecasting in Tapi Basin : A Scope for Improvement - | P.V.Timbadiya,
P.L.Patel and
P.D.Porey | Proceeding of National Seminar on recent advances in Hydrology for Water Resources Development and Management & xxvii Annual Convention of AHI 21st & 22nd January 2009, Baroda. |
| 19 | Need for Water Resources and Flood Management Centre in South Gujarat Region | P.L.Patel
B K Samtani | Proceeding of Seminar on Water for Future- Ussues and Options organized by CWC on 4 th -5 th March-2009. |
| 20 | Simulation of Unsteady flow in Natural channel: A case study of Tapi river using MIKE-11. | P.V.Timbadiya
P.L.Patel
P.D.Porey | Proceeding of the Civil Engineering Conference-Innovation Without Limits (CEC-09) at NIT-Hamirpur during |
| 21 | Simulation of flow in Tapi river between Ukai Dam and Kakrapar weir using HEC-RAS | P.V.Timbadiya
Jaimin Trivedi
Niket R Shah
P L Patel | Proceeding of the Civil Engineering Conference-Innovation Without Limits (CEC-09) at NIT-Hamirpur during |
| 22 | Evaluation of Existing Methods for Computation of Critical Tractive Stress of Bimodal Sediments | P. L. Patel,
P. D. Porey, and
Shaileshkumar B. Patel | National Specialty Conference on River Hydraulics - 2009, held at MMU- Mullana, Hariyana, Oct. 29-30, 2009. |
| 23 | Characterization and Computation of Critical Tractive Stress of Bimodal sediments | P. L. Patel,
P. D. Porey, and
Shaileshkumar B. Patel | Proceeding of a National Conference HYDRO - 2009, held at Khadakwasla, PUNE (INDIA), Dec. 17 -18, 2009. |
| 24 | Optimal Irrigation Planning in Fuzzy Environment: A Case Study of Kakrapar Canal Command Area,Gujarat | A. B. Mirajkar,
Dr. P. L. Patel | HYDRO-2010, At Ambala (Haryana), on 16-18 December, 2010. |
| 25 | Simulation of Stages using Hydrodynamic model MIKE 11 : A case study of Lower Tapi river | P. V. Timbadiya
P. L. Patel
P. D. Porey | 14 th National Symposium on Hydrology at MNIT- Jaipur during December- 21-22, 2010. |
| 26 | Optimal Cropping Pattern for Ukai Command Area, Gujarat. | A. B. Mirajkar,
Dr. P. L. Patel | 14 th National Symposium on Hydrology, at MNIT, Jaipur, on 21-22, December, 2010. |
| 27 | Optimal Cropping pattern in Command Area Kakrapar Right Bank Main Canal | Nishi Bhuvandas
A. B. Mirajkar
P. V. Timbadiya
P. L. Patel | National Conference on Sustainable Development of Urban Infrastructure, VNIT, Nagpur, pp. 408-413, June 2010. |
| 28 | Optimal Irrigation Planning in Fuzzy Environment: A Case Study of Canal Command Area, Gujarat | A. B. Mirajkar
P. L. Patel | National Conference on Environment Pollution and Management, GEC Aurangabad, MS, pg 159-166, Jan-2011. |
| 29 | HEC-RAS Model in Prediction of Levees along Lower Tapi River | Viraj D. Loliyana
Dr. P. L. Patel
P. V. Timbadiya
M. Khan
K. L. Dave | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 30 | One-Dimensional Model in Prediction of Stage-Discharge Curves in Natural Channel | P. V. Timbadiya
Dr. P. L. Patel
Dr. P. D. Porey | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |

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| 31 | Hydrodynamic Simulation of Open Channel Flow using MIKE 11 and its Validation: A Case Study | P. V. Timbadiya
Apurva M. Suthar
Dr. P. L. Patel | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 32 | Irrigation Operating Policies using Genetic Algorithm for Ukai Reservoir, India: A Case Study | S. S. Shiyekar
Dr. P. L. Patel
Dr. P. D. Porey | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 33 | Chance Constraint Linear Programming Model for Optimal Cropping Pattern | A. B. Mirajkar
Dr. P. L. Patel | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 34 | Analysis of Sediment Yield Data in Tapi Basin | Prabhat Chandra
Dr. P. L. Patel
Dr. P. D. Porey
Dr. I. D. Gupta | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 35 | Comparative Performance of Critical Tractive Stress Predictors for Bimodal Sediments | Shailesh B. Patel
Dr. P. L. Patel
Dr. P. D. Porey | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 36 | Estimation of Friction Factor for Alluvial Rivers | B. R. Andharia
Dr. V. L. Manekar
Dr. P. L. Patel
Dr. P. D. Porey | Proceeding of National Conference, HYDRO-2011, At SVNIT (Surat), on 29-30 December, 2011. |
| 37 | Comparative Prediction of rating curves using 1D and 1D-2D coupled Hydrodynamic models | P. V. Timbadiya
P. L. Patel
P. D. Porey | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 38 | Sustainable Irrigation Planning using two phase Multi-Objective Fuzzy linear programming approach | A. B. Mirajkar
P. L. Patel | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 39 | Development of two layered model for compound open channel flow | J. Sinha
S.K.Das
P.L.Patel
B.K.Samtani | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 40 | Experimental investigation on threshold for incipient motion of graded sediments | S.B.Patel
P.L.Patel
P.D.Porey | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 41 | Estimation of sediment yield using SWAT model- Generation of input data for Tapi basin | Prabhat Chandra
P .L.Patel
P.D.Porey
I.D.Gupta | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 42 | Calibration and performance of HEC-RAS based hydrodynamic model for stage prediction in lower Tapi river | V.D. Loliyana
P.L.Patel | Proceeding of National Conference, HYDRO-2012, IIT-Bombay, December, 7-8, 2012. |
| 43 | Sustainable Irrigation Planning Management With Multi-Objective Fuzzy Linear Programming | A. B. Mirajkar
P. L. Patel | Proceedings of SWRDAM-13 to be held at GEC Aurangabad, during Sept, 30 th –Oct 1 st 2013. |

12.0 Consultancy Projects:

No. of consultancy projects completed: 10

No. of consultancy projects ongoing: 01

Sr. No.	Sponsoring Authority	Type of Work	Fund Sanctioned (Rs.)	Present Status
1	Central Water Commission, New Delhi	Morphological study on Tapi River using Remote sensing technique	72.86 Lakhs	Ongoing
2	Tehri Hydro Development India Corporation Limited (THDICL)-Rishikesh Uttarakhand	CFD Simulations of Hydro Turbines including Tail Race of Koteshwar Hydro Power Project	15.00 Lakhs	Completed 2016
3	Surat Municipal Corporation, Surat	Safety assessment of Singanpore weir-cum- Causeway	15.00 Lakhs	Completed 2016
4	Design Point Consultant Pvt. Ltd. Surat	Design of storm drainage, water supply, sewerage and waste water recycling work of TP4E of DSIR	4.50 Lakhs	Completed 2016
5	Design Point Consultant Pvt. Ltd. Surat	Design of storm drainage, water supply, sewerage and waste water recycling work of TP2E of DSIR	25.00 Lakhs	Completed 2016
6	Narmada, Water Resources Water Supply and Kalpsar Department (NWRWS&KD), Govt. of Gujarat	Design of lining of Vinzol vhela passing through Vatva, GIDC, Ahmedabad and its estimation	10.00 Lakhs	Completed 2015
7	Tehri Hydro Development India Corporation Limited (THDICL)-Rishikesh Uttarakhand	Conducting CFD Simulations of River Pocket in front of Tail Race Tunnels (TR1 and TR2) of Tehri HPP CFD	7.75 Lakhs	Completed 2012-13
8	Uttaranchal Jal Vidyut Nigam Limited-Dehradun	Analysis of Maneri Bhali Stage II (Part I&II)	13.40 Lakhs	Completed 2010-11
9	SVNIT-Surat	Design of Water Distribution Network for SVNIT Surat with Revised Demand	Services were provided free of cost being Institute project	Completed 2010
10	Surat Municipal Corporation, Surat	Safety of Weir-cum- Causeway (Singanpur) due to flooding, Year 2007	0.30 Lakhs	Completed 2007
11	Gujarat Water Resources Water Supply and Kalpsar Department	'Damaged Aqueduct at Chainage 7350 m on the Daman-Ganga,	1.12 Lakhs	Completed 2007

13. List of Completed/ Ongoing Ph.D. Programmes

Sr. No.	Name of Students	Title of Thesis	Ph.D. Supervisors	Date of Joining	Status
1	Praful V. Timbadiya	Development of 1D-2D Integrated Hydrodynamic Model for River Flood Prediction in Coastal Urban Flood Plain	Dr. P L Patel Dr. P D Porey	20/07/2007	Completed August 2012
2	Shailesh B. Patel	Incipient Motion and Bed Load Transport Characteristics of Unimodal and Bimodal Sediments	Dr. P L Patel Dr. P D Porey	27/01/2009	Completed June 2013
3	Ashwini B. Mirajkar	Multiobjective Fuzzy Linear Programming Approaches in Integrated Management of Water Resource System	Dr. P L Patel	01/01/2010	Completed March 2014
4	Uday C. Roman	Estimation of Missing Rainfall and Prediction of Runoff in Upper Catchment of Tapi Basin	Dr. P L Patel Dr. P D Porey	27/01/2008	Completed May 2015
5	Prabhat Chandra	Prediction of Sediment Yield and Identification of Erosion Prone Areas for Soil Conservation Measures in Upper Tapi Basin, India	Dr. P L Patel Dr. P D Porey	27/01/2009	Completed May 2016
6	Bhoomi R. Andharia	Prediction of Bed Level Variation in Alluvial Streams	Dr. V L Manekar Dr. P L Patel Dr. P D Porey	23/07/2009	Completed December 2016
7	Jineswar Sinha	Development of 2-Layered 2-D Model for Compound Open Channel Flow	Dr. P L Patel Dr. B K Samtani Dr. S K Das	20/07/2009	Completed December 2016
8	Viraj D. Loliyana	Development of Distributed Rainfall-Runoff Model	Dr. P L Patel	15/07/2011	Ongoing
9	Radhika M. Yagnik	Impact of Climate Change on Water Resources	Dr. P L Patel	26/07/2013	Ongoing
10	Soumita Bid	Numerical modeling of environmental flows in Hydraulics	Dr. P L Patel	26/07/2013	Ongoing
11	Priyank J. Sharma DST Inspire Fellow	Inflow prediction and Real time reservoir operation	Dr. P L Patel Dr. R A Christian Dr. V Jothiprakash (IIT Bombay)	31/07/2014	Ongoing
12	Resmi S. R. Junior Research Fellow	Morphological study of Tapi river using Remote sensing Technique	Dr. P L Patel Dr. P V Timbadiya	17/07/2015	Ongoing
13	P. Laxmi Narayana	Experimental investigation of aggradations in mobile boundary channels	Dr. P V Timbadiya Dr. P L Patel	17/07/2015	Ongoing
14	Sangita Pawar	Reservoir operation study using Fuzzy Logic	Dr. P L Patel	17/07/2015	Ongoing

14. List of Completed/ Ongoing M.Tech Programmes

Sr. No.	Name of Students	Title of Thesis	M.Tech Supervisors	Year	Status
At Delhi College of Engineering (DCE) – 1999-2006					
1	Megha Datta Ghosh	Transport of coarse sediments	Dr. P L Patel	1999-2000	Completed
2	Farhad R M	Model studies of Dissam diversion head works	Dr. P L Patel	2001-02	Completed
3	Sunity Choudhary	Computer aided design of sediment excluder	Dr. P L Patel	2002-03	Completed
4	Satapati Deba Prakash	Efficient design of flow meter in open channel	Dr. P L Patel	2002-03	Completed
5	Anurag Jain	Studies on energy dissipators for circular outlets". Department of Civil Engineering	Dr. P L Patel	2002-03	Completed
6	Vishal Srivastava	Design and performance of overflow dams	Dr. P L Patel	2002-03	Completed
7	Anil Kumar Sharma	Critical tractive stress of nonuniform sediments	Dr. P L Patel	2002-03	Completed
8	Ushakar Jha	Cavitation control measures in tunnel spillways	Dr. P L Patel	2003-04	Completed
9	Debesh Rajpati	Criteria for incipient motion of sediment mixtures	Dr. P L Patel	2003-04	Completed
10	Saidurga Rao	Semi-theoretical approach for transport of coarse sediments	Dr. P L Patel	2003-04	Completed
11	R S Saini	Lift and drag model for bed-load transport of non-uniform sediments	Dr. P L Patel	2004-05	Completed
12	Suchitra Rani	Computer aided design of tunnel type silt ejector	Dr. P L Patel	2004-05	Completed
13	Dilip Kumar	Computation of sediment distribution in storage reservoirs	Dr. P L Patel	2004-05	Completed
14	Misha Sinha	Prediction of sediment bed surface under equilibrium flow condition	Dr. P L Patel	2004-05	Completed
15	Kanhiya Goyal	Probabilistic model in prediction of nonuniform sedimentbed surface under equilibrium condition	Dr. P L Patel	2005-06	Completed
16	Mayank Jain	Bed load transport of bimodal sediments	Dr. P L Patel	2005-06	Completed
At SVNIT Surat – 2007 onwards					
17	Shailesh B. Patel	Entrainment characteristics of non-uniform unimodal and bimodal sediments	Dr. P L Patel Dr. A D Ghare	2007-08	Completed
18	Nishi Bhuvandas	Application of linear programming model in optimization of irrigation benefits of Ukai command area	Dr. P L Patel Shri P V Timbadiya	2009-10	Completed
19	Viraj Loliyana	Simulation of flood in open channel using HEC-RAS	Dr. P L Patel	2010-11	Completed
20	Sharad Patel	Finite volume technique in numerical modeling of desilting basin	Dr. P L Patel	2011-12	Completed

21	Mandeep Singh (M.Tech Research)	Silt erosion in hydro turbines	Mrs. V V Bhosekar (CWPRS, Pune) Ms. Nishi Bhuvandas Dr. J Banerjee (MED, SVNIT Surat) Dr. P L Patel	2011-12	Completed
22	Anarghya Jain	Characterization of turbulence events and bed load transport of sediment mixture	Mr. Himanshu Tiwari (RES, MP) Dr. P L Patel	2012-13	Completed
23	Dhvani Patwa	Characterization of turbulence events and incipient motion of sediment mixture	Dr. P L Patel	2012-13	Completed
24	Priyank Sharma	Stochastic dynamic programming model in development of operation policy for a multipurpose reservoir	Dr. P L Patel Dr. V Jothiprakash (IIT Bombay)	2013-14	Completed
25	Sudhanshu Dixit	Characterization of flow turbulence in mobile boundary channels	Dr. P L Patel	2013-14	Completed
26	Apoorv Tripathi	Development of 2D hydrodynamic model and flood hazards maps of Surat city, India	Dr. P L Patel Dr. P V Timbadiya	2014-15	Completed
27	Resmi S. R.	L-moment approach in regional flood frequency analysis of upper Tapi basin, India	Dr. P L Patel	2014-15	Completed
28	Garima Nagpal	Regional frequency analysis of rainfall using L-moment approach of lower Tapi basin, India	Dr. P L Patel	2014-15	Completed
29	P. Laxmi Narayana	Analytical and experimental investigation on bed level variation of alluvial channel due to overloading	Dr. P V Timbadiya Dr. P L Patel	2014-15	Completed
30	Chethan S. V.	2D Numerical modeling of river flood in coastal floodplain in lower Tapi basin, India	Dr. P L Patel	2015-16	Completed
31	Lalit Pal	Hydrological modeling under impact of climate change in Upper Tapi basin, India	Dr. P L Patel	2015-16	Completed
32	Akshay Rajak	Morphological study of middle Tapi river using remote sensing and GIS techniques	Dr. P L Patel	2015-16	Completed
33	Chaitanya J C	Characterization of turbulence events, incipient motion condition and bed load transport of sediment mixture	Dr. P L Patel	2016-17	Ongoing
34	Neha Manoj	Numerical hydraulic modeling for natural river	Dr. P L Patel	2016-17	Ongoing

15. List of B. Tech. Projects

Sr. No.	Name of Students	Title of Project	Project Supervisors	Academic year	Status
At Delhi College of Engineering (DCE) – 1999-2006					
1	Ashish Saxena	Silting problems in power channels	Dr. P L Patel	1999-2000	Completed
2	Sanjeev Kumar Rai Sunil Varshney Vikas Mittal Vipin Gupta	Computer aided design of sediment excluder	Dr. P L Patel	2000-2001	Completed
3	Neha Mehta Roshan Patnaik Simran Kumar Sudiksha Rani Yamini Malna	Design of spillway and terminal structures	Dr. P L Patel	2000-2001	Completed
4	Maitrey Yadava Nitin Prasad Anupam Mehta Ruchir Kalra Kamal Dahal	Design of chute spillway for Dhauliganga hydroelectric project	Dr. P L Patel	2001-2002	Completed
5	Sameer Bhalla Sarang Arora Saurabh Jolly Sarvesh Mehrotra Sunil Negi Venu Shankar	Stability analysis of earth Dams – A computer aided approach	Dr. P L Patel	2001-2002	Completed
6	Dharmbir Singh Nidhi Anchal Priyanka Srivastava Sandeep Gaur Vinay Sharma	Sedimentation in Indian reservoirs	Dr. P L Patel	2001-2002	Completed

7	Arun Sharma Ashish Das Sandeep Dayal Sourabh Singh Sunil Chandra Yavnish Adlakha	Calculation of bed load for nonuniform sediments	Dr. P L Patel	2002-2003	Completed
8	Archana Meena Rajshree Meena Suchitra Rani	Hydraulic Design of CHIKKAR DAM	Dr. P L Patel	2002-2003	Completed
9	Asheesh Gupta Aditya Nikhil Bhupen Khatri Parvinder Singh Srivenkatesh Swapnil Bhatnagar	Hydraulic Design of Spillway and Energy Dissipator	Dr. P L Patel	2002-2003	Completed
10	Amarjeet Kumar Deepak Nathani Harish Arora Ropan Bhattacharya Yatin Aggarwal	Design of highway skew bridge over river	Dr. P L Patel	2003-2004	Completed
11	Aman Sharma, Ashish Kumar, Ruchir Singh, Wasim Siddiqui	Design of river diversion head works	Dr. P L Patel	2003-2004	Completed
12	Sudheer Goel, Sanjeev Kr. Singh, Santanu Biswas, Sudheer Kr. Arya, Vikas Kr. Meena, Virender Singh Mandal	Hydraulic Design of spillways	Dr. P L Patel	2003-2004	Completed
13	T. Anant Vaibhav, Gaurav Jaitak, P. Rajesh, Nikhil Kr. Yadava,	Hydraulic design of hydroelectric power components	Dr. P L Patel	2004-2005	Completed

14	Surakshit Khullar Chetan Sharma, Ajay Varshney, Amandeep, Gopal Sharma, Praveen Bali	Computer aided design of tunnel type sediment ejector	Dr. P L Patel	2004-2005	Completed
15	Neeraj Lohani, Amit kumar Jain, Aman Goel, Amit kumar Bhatia, Bhupesh kumar	Condition assessment and improvement existing roads	Dr. P L Patel	2005-2006	Completed
16	Sakshi Talwar, Pooja Garg, Priyanka Mittal Neha Gupta	Water hammer analysis and design of surge tank in hydro-power plants	Dr. P L Patel	2005-2006	Completed
17	N. Krishnan, Neeraj Gupta, Puneet sharma, Rishikesh Joshi, Tarun Arora	Prediction of ITS benefits on Delhi Roads	Dr. P L Patel	2005-2006	Completed

At SVNIT Surat – 2007 onwards

18	Praveen Arora Prashant Sagar Anand Sonekar	Sediment Transport Concepts in Design of Sediment Excluders	Dr. P L Patel Shri G D Kale	2007-08	Completed
19	Neha Agrawal Manish Singh Roshan Barla	Simulation of Unsteady Flow in Open Channel using HEC-RAS	Dr. P L Patel Shri G D Kale	2008-09	Completed
20	Ankit Balyan Prem Kumar Alok Yadav	Application of HEC HMS in Rainfall-Runoff and Flood Routing Simulations in Lower Tapi Basin	Dr. P L Patel Shri P V Timbadiya	2009-10	Completed
21	Niket Shah Rishabh Shah Jaimin Trivedi Anjali Joseph	Application of HEC HMS and GIS Remote Sensing in Prediction of Runoff for Gopalkheda Catchment	Dr. P L Patel Dr. S M Yadav	2010-11	Completed

22	Aditya Arekar Anshuk Garg	Analysis of Water Distribution Network of SVNIT Campus	Dr. P L Patel Shri P V Timbadiya	2011-12	Completed
23	Subhash Chandra Jay Tatariya Maheep Saher Mahavir Singh Muddireddy Avinash	Computation of Reservoir Operation Parameters through Simulation using HEC-ResSim	Dr. P L Patel Dr. P V Timbadiya	2012-13	Completed
24	Raj Sekhar Shriram Meena Dewashish Rai Akshay Jain Ankit Dhake	Analysis and Computation of Uniform Flow and Gradually Varied Flow	Dr. P L Patel Dr. P V Timbadiya	2013-14	Completed
25	Pallavi Sirohi Sunil Agarwal Bhavika Parmar Nausad Alam Gurmpreet Lalana Shailendra Singh Dinesh Kumar	Design of Storm Water Network	Dr. P L Patel Dr. P V Timbadiya	2014-15	Completed
26	Niraj Kumar Alok Anand Harsh Dalal Pawan Kumar Aakash Kumar	Development of IDF curve and its application in storm water network design	Dr. P V Timbadiya Dr. P L Patel	2015-16	Completed
27	Kavisha Panchal Ajit Sahoo	Numerical modelling of open channel flow	Dr. P L Patel	2016-17	Ongoing

16. Conference/ Workshop/ Seminar/ Symposium/ STTPs organized

S NO	Name of Summer/ Winter Schools/ Training Programmes Course	Duration	Funding Agency	Venue
Short Term Training Programme (STTP)				
1	Design of Storm Water Network for Smart City: Theory and Practice - II (Coordinator)	Jan. 2-7, 2017	Self Financed	Dept. of Civil Engg., SVNIT Surat
2	Computational Mechanics and Modelling (CMM 2016) (Co-Coordinator)	Dec. 26-30, 2016	Self Financed	Dept. of Civil Engg., SVNIT Surat
3	Fundamentals of Advanced Fluid Mechanics (FAFM 2016) (Co-Coordinator)	Jan. 4-8, 2016	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
4	Design of Storm Water Network for Smart City: Theory and Practice - I (Coordinator)	Dec. 28, 2015- Jan. 01, 2016	Self Financed	Dept. of Civil Engg., SVNIT Surat
5	Modeling Impact of Climate Change on Water Resources (Co-Coordinator)	Dec. 08-12, 2014	Centre of Excellence (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
6	Hydraulic and Hydrologic Modeling: Concepts and Applications (Coordinator)	July 01-05, 2013	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
7	Effective Teaching; Cooperative Learning; Effective faculty Development, Outcome based education (Coordinator)	Dec.14-18, 2009	AICTE	Dept. of Civil Engg., SVNIT Surat
8	Advances in water resources (Co-Coordinator)	Dec.22-26, 2008	AICTE	Dept. of Civil Engg., SVNIT Surat
Conferences/Workshop/ Seminar Organized				
1	National conference on “Water Resources and Flood Management (WRFM) – 2016” with special reference to Flood modeling (Coordinator)	Oct. 14-15, 2016	Centre of Excellence (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
2	Project Appraisal Monitoring Committee (PAMC) meet of Ministry of Earth Sciences (Coordinator)	July 15, 2014	Ministry of Earth Sciences (MoES)	Dept. of Civil Engg., SVNIT Surat
3	Workshop on “Avenues for Research in the areas of Hydrology, Water Resources and Climate Change Impacts” (Coordinator)	July 14, 2014	Ministry of Earth Sciences (MoES)	Dept. of Civil Engg., SVNIT Surat
4	Workshop on “River Hydraulics and Management of Indian Rivers” (Coordinator)	March 22, 2014	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
5	Workshop “Objective and Outcome Based Education” (Coordinator)	Dec. 21-22, 2013	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
6	National Seminar on “Climate Change Impacts on Water Resources Systems” (Co-coordinator)	Nov. 27-29, 2013	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., Parul Institute of Technology & Engg. Vadodara
7	Workshop on ‘Preparing action plan for study of effect of climate change on water resources of Tapi Basin’	April 28, 2013	AICTE (NCP Project)	Dept. of Civil Engg., SVNIT Surat
8	National Conference on ‘Hydraulics and	Dec.29-30, 2011	ISH, DST, CSIR,	Dept. of Civil Engg.,

	Water Resources', HYDRO-2011 (Coordinator)		DRDO,MNIT Jaipur, Narmada Water Resources Water Supply and Kalpsar Deptt.	SVNIT Surat
9	National Workshop on 'Flood forecasting and protection measures'- FFPM-2010 (Coordinator)	Aug.28, 2010	NCP (AICTE) Project	Dept. of Civil Engg., SVNIT Surat
10	Dean (Academics) meet of all NITs for foster further academic and research collaborations among the NIT systems (Coordinator)	Jan. 29, 2010	SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
11	Workshop on Course Curriculum for up gradation of PG syllabi of 'Water Resources Engineering' (Coordinator)	June 14, 2008	SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
12	National Conference on 'Hydraulics and Water Resources', HYDRO-2007, (Convener; Editorial Committee)	Dec. 21-22, 2007	ISH, SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
13	National Workshop on ' Vision India: Construction industry and Disaster management (Coordinator)	Nov.19, 2005	Delhi College of Engineering	Dept. of Civil Engg Delhi College of Engineering
14	Awareness Workshop on " Intelligent Transportation Systems" (Coordinator)	April, 05,2005	Delhi College of Engineering	Dept. of Civil Engg Delhi College of Engineering
15	National conference on "Innovative Approaches in the Management of Environment" (Joint Secretary	Oct.17-18, 2003	Delhi College of Engineering	Dept. of Civil Engg Delhi College of Engineering
Software Training Programme organized				
1	Bentley Water GEMS, Sewer GEMS, Storm CAD	June 16-19, 2014	Annual Plan Grant, SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
2	MIKE URBAN	May 19, 2014	Centre of Excellence (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
3	MIKE SHE	Apr. 25, 2014	Centre of Excellence (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
4	MIKE 21 – Flood	Nov. 2, 2010	NCP project, AICTE	Dept. of Civil Engg., SVNIT Surat
5	ERDAS Imagine	Oct. 29-30, 2010	NCP project, AICTE	Dept. of Civil Engg., SVNIT Surat
6	Bentley Water GEMS, Sewer GEMS, Storm CAD	May 11-15, 2010	Annual Plan Grant, SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
7	Arc GIS	Feb. 25-26, 2010	NCP project, AICTE	Dept. of Civil Engg., SVNIT Surat
8	MIKE 11	May 5-10, 2008	Annual Plan Grant, SVNIT Surat	Dept. of Civil Engg., SVNIT Surat
Summer / Winter Schools				
1	Hydraulics of Mobile Boundary Channel (Coordinator)	Apr. 18-19, 2014	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
2	Computational Hydraulics (Coordinator)	Oct. 25-26, 2013	TEQIP-II	Dept. of Civil Engg., SVNIT Surat

Expert Lectures organized

1	Expert Lectures by Dr. Vishnu Prasad, Prof., NIT Bhopal, on 'Selection of Pumps: Performance and Tesing' (Coordinator)	August 24, 2016	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
2	Expert Lectures by Dr. Vivekanand Singh, Prof., NIT Patna, on 'Numerical modeling for soil moisture prediction in the catchment' (Coordinator)	August 09, 2016	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
3	Expert Lectures by Dr. S K Jain, Scientists G, NIH Roorkee, on 'Environmental flows' (Coordinator)	May 11, 2016	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
4	Expert Lectures by Dr. M L Kansal, Prof., IIT Roorkee, on 'Issues on River Health Monitoring' (Coordinator)	March 21, 2016	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
5	Expert Lectures by Dr. K G Ranga Raju, Emeritus Prof., IIT Roorkee, on 'Rivers and River Control structures' (Coordinator)	Jan. 06, 2016	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
6	Expert Lectures by Dr. Rakesh Mishra, Professor, University of Huddersfield, UK on 'Industrial Applications of Computation Fluid Dynamics' (Coordinator)	Aug. 12, 2015	Centre of Excellent (CoE), TEQIP-II	Dept. of Mechanical Engg., SVNIT Surat
7	Expert Lectures by Dr. B. S. Pani, Emeritus Prof., IIT Bombay, on "Boundary Layer Theory and Turbulent Flow: Concepts" (Coordinator)	Oct. 31- Nov. 1, 2014	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
8	Expert Lectures by Dr. B. S. Pani, Emeritus Prof., IIT Bombay, on "Concepts of open channel flow hydraulics and Resistance to flow in mobile boundary channels" (Coordinator)	Mar. 19-20, 2014	Centre of Excellent (CoE), TEQIP-II	Dept. of Civil Engg., SVNIT Surat
9	Expert Lectures by Dr. B S Mazumder, Emeritus Prof., ISI Kolkata, 'Turbulence its measurement and analyses in rigid and mobile boundary channels' (Coordinator)	Mar. 21-22, 2013	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
10	Expert Lectures by Dr. K G Ranga Raju, Emeritus Prof., IIT Roorkee, on 'Rivers and River Control structures' and 'The Baglihar Dam and the Indus Waters Treaty' (Coordinator)	Aug. 19, 2011	TEQIP-II	Dept. of Civil Engg., SVNIT Surat
11	Coordinated Expert Lectures on (a) Stability analysis of gravity dams and (b) Criteria for design of Energy dissipators in Dams	May 12, 2006	Delhi College of Engineering	Dept. of Civil Engineering, Delhi College of Engineering

17. Membership of Technical Societies:

- (1) Fellow Member of the Institution of Engineers, India (F-112817-1)
- (2) Fellow Member of Indian Society for Hydraulics (ISH) (F-389)
- (3) Fellow Member of Indian Water Resources Society (IWRS)
- (4) Member of International Association of Hydraulic Research (IAHR)
- (5) Life Member Of Indian Society For Technical Education (ISTE) (IM-30011)
- (6) Life Member Of Association of Hydrologist of India(AHI), 2009 (AHI-LM-411-703)

- (7) Member of Hydrological Data User Group (HDUG), State Water Data Centre (SWDC), Govt of Gujarat, 2008 onwards
- (8) Member of working group on climate change '**Fluvial Mechanism Component**' of **International Association for Hydraulic Research (IAHR)**, 2008 onwards
- (9) Member of Interstate Committee on 'Flood Management & Preparedness for Monsoon in Tapi Basin.
- (10) A member of working group of IAHR Working on effect of Climate change (Fluvial Mechanism)

18. Administrative responsibility undertaken

Sr. No.	Name of the Assignment	Duration	Name of responsibility shared/ service offered
SVNIT Surat			
1	Dean Academics	Nov.27, 2015 to till date	<ol style="list-style-type: none"> a) Smooth and efficient conduct of Academic Programs as per the Academic regulations approved by the Institute Senate. b) Conduct of Institute Academic Advisory Committee (IAAC), Senate meetings, and Convocations c) Conduct of Examinations and classes as per the Academic Calendar d) Accreditation of UG and PG Programs
2	Head, Department of Civil Engineering	July 05, 2013 July 06, 2015	<ol style="list-style-type: none"> e) Administrative Head of the department f) Smooth conduct of UG/ PG/ PhD courses in the Department g) Handling the admissions of PG/ PhD students at the Department level h) Taking care of laboratory and class infrastructure of the department i) Looking after administrative needs of faculty, staff and students j) All four eligible PG programmes got Tier I accreditation from National Board of Accreditation (NBA) New Delhi k) The SAR for Accreditation of UG program has been submitted to NBA for accreditation l) The concept of single subject with single teacher, where ever applicable, was introduced first time in the department for ensuring responsibility oriented teaching m) The data base of ongoing consultancy, has been developed first time in the department for better monitoring of the projects n) Organized Departmental Academic Advisory Committee (DAAC) meets time to time to address the academic issues of the department, and bringing the same at Institute Academic Advisory committee (IAAC) and Senate levels for discussions
3	Dean (Research and Consultancy)	May 09, 2009- Oct. 16, 2010	<ol style="list-style-type: none"> (a) Revised syllabi for different PG courses were put up to the Institute Senate through BPGS&R (b) Administered smooth admission process of PG and PhD programmes (c) Meetings of BPGS&R were initiated and conducted for discussing the policy matters amongst the members and putting the same to the Institute Senate. MoUs were initiated for collaboration between the

			SVNIT and Industries; and academic Institutions at National and International level
4	Dean (PG)	July 16, 2007- May 09, 2009	(a) Modified the existing scheme of M Tech (RESEARCH) through a committee and submitted to Senate for their approval through BPGS&R. (b) The SIX PG Programmes were accredited. (c) Admission process of PG Admissions were conducted at the Institute level (d) Revised syllabi for different PG courses and put up to the Institute Senate through BPGS&R (e) Routine administrative components of PG programmes
5	Director-in-charge SVNIT Surat	Apr. 23, 2009- June, 17 2011	The duty of Director-in-charge was assigned as and when regular Director was on official duties/leaves.
6	Water Resources Lab In-charge (APPENDIX A)	Aug. 27,2008- Sep. 21, 2011	(a) Strengthened existing experimental and Computational Hydraulics Laboratory in the Department by procuring the new experimental and computational equipments as well as facilities, (b) Desired facilities for Hydraulics experiments were planned during the construction of new Advanced Hydraulics Laboratory in the Department (c) A new Sediment transport flume was procured as part of DST Project in the Advanced Hydraulics laboratory of the department
7	Departmental Coordinator of UG (accreditation)	March 2013 onwards	The team was formed; and SAR of UG accreditation is submitted to AICTE for accreditation
8	Member of Academic Performance Review Committee (APRC), SVNIT Surat	2007 to Oct. 2010; July 2013 onwards	For discussion of policies related to academic issues
9	Member of Institute Academic Advisory Committee (IAAC), SVNIT Surat	2007 onwards	For discussion of policies related to academic issues
10	Chairman, Institute Canteen Committee	July 2012 – June 2013	Advising the Institute authority for better management of the Institute canteen
11	Chairman, Scrutiny Committee for staff selection at the Institute level	Apr. 2012	List of eligible Administrative officer/ Technical officer (Non-Technical posts) were handed over to the Institute administration. Selection process is over.
12	Member of Central Counselling Board CCB-2009	2009	Conducted admission process of B.Tech students in the Institute through AIEEE-2009
13	Member of Institute level scrutiny committee	April 2008- March 2009	Promotion of faculty members through CAS.
14	Mentor for the employees of Hazira LNG Private Limited, Surat	April 2008- March 2009	Mentor the pursuing their B Tech (Gas engineering) from their organisation
15	Member Institute	Jan 2008-	Advising the Institute administration and students in

	Disciplinary Committee	Jan 2010	disciplinary actions at the Institute level
16	Member Institute Purchase Committee	Jan 2008- Jan 2009	Advising the Institute administration in purchases at the Institute level

Delhi College of Engineering (DCE)

17	Lab-in-Charge Hydraulics Lab	July 1999-June 2007	a) Development of basic experimental facilities in Fluid Mechanics Lab, like Flow through Orifice, Discharge measurements through Venturimeter, Calibration of rectangular, triangular notches, minor losses, Metacentric height, free Vortex, forced Vortex etc.
18	Officer-in-charge, Examination Cell	2001-2007	For conducting examination working smoothly at Institute level
19	Coordinator, Water Resources Engineering Section	June 01, 2004- 2007	For coordinating and enhancing water resources section at department level
20	Time- Table In- charge, Department of Civil Engineering	Jan 2000 – Jan 2003	For implementing effective time table schedule according to teaching scheme at department level
21	Warden Bhaskaracharya Hostel, vide Admn. letter no. HOO/02/2003/718- 727	May 1, 2003 – Apr. 1, 2004	For conducting smooth working at Hostel
22	Dy. Proctor	July 29, 2005	At Institute level
23	Coordinator for Award of PhD. scholarship	Academic Year 2000-2004	At Institute level