

Curriculum Vita

1. Name : DR. PRASHANT KUMAR SHRIVASTAVA
2. Specialization : Soil and Water Conservation Engineering
3 Address : Principal (I/C)
 College of Forestry,
 ASPEE College of Horticulture & Forestry
 Navsari Agricultural University,
 Navsari Gujarat,
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4. Educational Qualification:

| Examination passed | Major subjects | Year of passing | Board / University | Division |
|-----------------------------------|--|-----------------|---|----------|
| High School | Maths, Sci. | 1981 | MP Board of Sec. Ed. Bhopal | First |
| BSc part I | Maths, Sci. | 1982 | Jabalpur Univ. | First |
| B.Tech (Ag. Engg) | Soil & Water Conserv., Irri & Drain, Farm Machinery, Structures, Processing | 1986 | Jawaharlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur | First |
| M.Tech.(Soil & Water Engg.) | Soil conserv., Watershed Management, Drainage Irrigation, Conserv Structures, Hydrology, Tubewell & Pumps. | 1988 | Jawaharlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur | First |
| Ph.D.(Soil & Water Conserv Engg.) | Hydrology, Sedimentation Forest Watershed Manage - ment, Advance Topics, Irrigation, Drainage. | 1996 | Govind Ballabh Pant Univ. of Agric. & Tech., Pantnagar | First |

5. Employment Record:

| Institute/University | Post Held | Year of Joining | Year of leaving |
|---|---|-----------------|-----------------|
| Gujarat Agricultural University Navsari Campus, Navsari-Gujarat | Asstt. Res. Sci. / Asstt. Prof. | 1989 | 1998 |
| Navsari Agricultural University Navsari Campus, Navsari-Gujarat | Asso. Res. Sci / Asso. Prof. | 1998 | 2006 |
| Navsari Agricultural University Navsari Campus, Navsari-Gujarat | Professor (Promotion) | 2006 | 2010 |
| Navsari Agricultural University Navsari Campus, Navsari-Gujarat | Professor (Selection) | 2010 | Continuing |
| Navsari Agricultural University Navsari Campus, Navsari-Gujarat | Incharge Principal, College of Forestry | 2015 | Continuing |

- 6. Membership** : (i) Life Member of Indian Society of Agricultural Engineers. (LM-6313)
(ii) Associate Membership of Institute of Engineers (India). (RAM-082191/0)
(iii) Life Member Indian Association of Hydrologists (LM-1060)
(iv) Life Member Indian Society of Soil and Water Conservationists (LM-968)

7. Earlier selections:

- Incharge Principal, College of Forestry
- (Professor (Selection), NAU, Navsari
- Professor (Promotion), NAU, Navsari
- Associate Professor (Ag Engg); J N K V V, Jabalpur
- NET / ARS conducted by ASRB, New Delhi in 1991
- Trainee Engineer after B Tech in Bhilai Engineering Corporation, Bhilai
- Bajaj Auto Limited
- Polyolifilms Industries Limited

8. Present Engagements

Teaching: Maximum two / three courses per semester

| S.No. | Course Taught in recent past | Credit |
|-------|---|--------|
| 1 | Watershed Concepts, Project Formulation & Planning (WM – 521) | 2+1 |
| 2 | Land Use Planning & Watershed Management (AF – 612) | 2+1 |
| 3 | Watershed Hydrology & Resource Conservation (WM -524) | 2+1 |
| 4 | Disaster Management (PGS – 506) | 1+0 |
| 5 | Hydrology of Agricultural Lands (SWM – 614) | 2+1 |
| 6 | Fundamentals of Soil & Water Management (SWM 602) | 2+1 |
| 7 | Drainage in Agricultural Lands (SWM-710) | 2+1 |
| 8 | Sprinkler and Drip Irrigation System (SWM – 713) | 2+1 |
| 9 | Soil Conservation & Watershed Management (SWM – 705) | 2+1 |
| 10 | Advances in Irrigation & Drainage (SWE 607) | (2+0) |

Research

| Ongoing | |
|---------|--|
| 1 | Study the impact of weather changes on the major crops of the region |
| 2 | Feasibility study to assess the use of recycled grey water for irrigation |
| 3 | Development of integrated rainwater resource management (iRaM) module for coastal areas of South Gujarat |

Extension

- Active participation in Krishi Mahotsav
- Lectures in various training programmes organized by Directorate of Extension

Other Academic Involvement

- ✓ Worked as Editor of Annual report of NAU – 2008 to 2010
- ✓ Worked as Editor of biannual News Magazine ‘Spectrum’ of NAU – 2009 to 2011
- ✓ Convener of Agricultural Engineering Subcommittee of NAU – 2011 to 2012
- ✓ Coordination of in the project “Establishment of Center of Environment Studies”
- ✓ Soil and Water Conservation activities of main campus as well as Research centers of University

9. Special Contributions:

- Contributed in Planning, designing, execution, monitoring and reporting of sub surface drainage work in 180 ha area under pilot project
- Contributed in research work on Micro irrigation and Drainage technologies which are being widely adopted by farmers of the region
- Planned and executed drainage activities in 400 ha area of NAU, Navsari
- Planning and execution of water harvesting activities at NAU, Navsari
- Designed and executed watershed development in 150 ha AES, Paria Farm
- Contributed in establishment of Mega Seed Project at NAU, Navsari
- Contributed in developing the Navsari Agricultural University Web Site
- Active participation in Krishi Mahotsav
- Prepared projects on Watershed and Tillage
- Initiated compilation of weather data of Navsari and University Research Stations
- Comprehensive Development Action Plan of Surat for 5 yr Plan

10. **Awards** : Sarder Patel Agricultural Research Award (First Price)
Given by Government of Gujarat

11. Experience

1. Research - 26 years
2. Extension - 20 years
3. Teaching - 19 years

12. Computer Know-how:

- Excel, Lotus, Word, Power Point
- CRIWAR, FLUME, SEGREG, CROPWAT, SALTMOD, SURDEV, RUNOFF, RAIN, SATEM, DRAINMOD
- BASIC, FOTRON, Harward Graphics,
- IDRISI, WINSURF

13. Trainings attended :

- One month practical training in B.Tech. 2nd yr. Tractor Training, Testing Centre Budni, M.P.
- One month practical training in B.Tech. 3rd yr. at Tractor and Farm Equipment's Limited, Madras, T.N.
- One month practical training in M.Tech. at Central Soil Salinity Research Institute, Karnal, Haryana.
- Three day workshop on flow measurements and Measuring Structures at M.S.University, Baroda, Gujarat.
- Fifteen days training from 16.1.97 to 5.2.97 on Computer Application at Gujarat Agric. Univ., Navsari.
- Three weeks training from 3.2.97 to 21.2.97 on Drainage Research at C.S.S.R.I., Karnal, Haryana.
- Fifteen week course from 18.8.97 to 28.11.97 (36 th International Course On Land Drainage) at Wageningen, The Netherlands
- Three week course from 1.12.97 to 19.12.97 (4 th International Course on Microcomputer Applications in Land Drainage) at Wageningen, The Netherlands

- Three week course form 3.2.98 to 13.2.98 on Computer Applications in Irrigation and Drainage at Indo Dutch Network Center, Navsari, Gujarat
- Training course attended on “Enveop Material Research” from 17 to 22 Aug. 1998, held at CSSRI Karnal
- Training course on “Exposure to Internet Technology” from 1 to 15 July 1999 Gujarat Agric. Univ., Navsari.
- Three week training on ‘Remote Sensing & GIS Applications for Management of Salt Affected and Water logged Soils’ form 29.11.99 to 17.12.99 at Indian Institute of Remote Sensing, National Remote Sensing Agency, Department of Space, Government of India
- Three week training course on Integrated Pilot Area Drainage Research from 24th June to 14th July 2001 held at Central Soil Salinity Research Institute, Karnal, Haryana.
- Three week training on Computer Models in Irrigation and Drainage, from 19.11.2001 to 10.12.2001, jointly organized by Acharya N G Ranga Agricultural University and ILRI, Wageningen, at Hyderabad.
- Twenty eight day Orientation Course (Information Technology) from 3.12.03 to 30.12.03, attended at UGC - Academic Staff College, Bharathidasan University, Tiruchirappalli, Tamil Nadu
- Ten days Workshop on Leadership Development Programme from 10th to 19th Sep. 04, at NAU, Navsari
- One month CCC+ training conducted by Gujarat Government at Navsari Agricultural University campus during October 2007

14. **Extra curricular** : N.C.C. 'C' Certificate

15. Place (s) of work

| S. No. | Place | Project & Department | Period |
|--------|--|---|-----------------------|
| 1. | Gujarat Agricultural University Navsari Campus, Navsari-Gujarat | Soil & Water Management Research Unit | 1989 – 1996 |
| 2. | Gujarat Agricultural University Kevadia Colony, Sarsar Sarovar Dam Site -Gujarat | Integrated Watershed Development Project, NARP, Bharuch | 1996 |
| 3. | Gujarat Agricultural University Navsari Campus, Navsari-Gujarat | Indo Dutch Network Project, Soil & Water Management Research Unit | 1996 – 2002 |
| 4. | Navsari Agricultural University, Paria, Ta. – Pardi, Dist. Valsad | Water Management Project, Agricultural Experimental Station, | 2002 – 2005 |
| 5. | Navsari Agricultural University, Navsari | Soil & Water Management Research Unit | 2006 – 2010 |
| 6. | Navsari Agricultural University, Navsari | ASPEE College of Horticulture & Forestry | 2010- (continuing) |

ANNEXTURE-I

I Papers published in International Journals / Proceedings / Presented in International Conferences, Seminar Symposium

1. Shrivastava,P.K.,Parikh,M.M.,Savani,N.G. and Raman,S.(1994) Effect of drip irrigation and mulching on tomato yield, Agricultural Water Management, Elsevier Sciences, Vol 25 (2) : p 179 - 184.
2. Shrivastava,P.K., Parikh,M.M., Savani,N.G. and Raman,S.(1994) Effect of drip irrigation and mulching on tomato yield, International Water & Irrigation Review Vol 15 (1) : p 17-19.
3. Parikh,M.M.,Savani,N.G.,Shrivastava,P.K.,Holer,G.H., Shah,G.B., and Raman,S. (1995).Nitrogen economy in banana through fertigation.Paper presented in International Symposium on fertigation held at Israel Institute of Technology Haifa,Israel.
4. Patel.B.R., Shrivastava.P.K., Lad,A.N., and Raman,S (2000) Solutions of waterlogging and salinity problems through sub – surface drainage system – A case study, Paper published and presented in 8th ICID International Drainage Workshop 31st Jan. – 4th Feb 2000 New Delhi, Proceedings Vol.1 Regional Experiences: 203 - 210
5. Parikh,M.M., Lad,A.N., Shrivastava.P.K., Patel,A.M. and Raman,S. (2000) Pre drainage investigation for drainage design in clay soils of irrigated command of South Gujarat, India, Paper published and presented in 8th ICID International Drainage Workshop 31st Jan. – 4th Feb 2000 New Delhi, Proceedings Vol.2 : 119 – 136
6. Shrivastava, P. K. and Raman S (2001) Diagnosis of irrigation system at Segwa drainage pilot area. 1st Asian Regional Conference, Seoul, Korea, 16th to 21st September 2001 : p 2
7. Shrivastava, P. K., Patel, A. M. and Oosterbaan, R. J. (2002) SALTMOD model validation and application in Segwa minor canal command area, Drainage for a secure environment and food supply. Proceedings of 9th ICID International Drainage Workshop, Utrecht, Netherlands, 10 to 13th September 2003 : p 41

II Papers Published in National Journals:

1. Shrivastava,P.K.(1989) Crop water production function and optimal irrigation programme for wheat;Thesis Abstract, Haryana Agric. Univ.;Vol XV(4),No 265 : p 265
2. Shrivastava,P.K.,Tyagi,H.R.,Tyagi,N.K. and Gupta,R.K. (1989) Crop water production function for wheat, Paper published in proceedings XXV of ISAE convention held at Udaipur from 5-7th Jan.1989 : p 41-46.
3. Shrivastava,P.K.,Savani,N.G., Parikh,M.M. and Raman,S.(1990) Response of tomato to drip and mulches, paper published and presented in seminar on drip irrigation organised by Gujarat Association of Agricultural Sciences (GAAS), Anand :p 142- 148..
4. Parikh,M.M.,Shrivastava,P.K., Savani,N.G., Desai,S.G., Malick,M.and Raman,S. (1990) Response of banana to drip with mulches, Paper published and presented in seminar on Drip Irrigation organised by GAAS Anand: p 149-154.
5. Parikh,M.M.,Shrivastava,P.K.,Savani,N.G.,Desai,S.G.Patel, H.R.and Raman,S.(1990). Feasibility study of drip in sugarcane, Paper published and presented in seminar on drip irrigation organised by GAAS, Anand : p 170-174.
6. Parikh,M.M., Shrivastava,P.K., Savani, N.G. and Raman,S.(1992) Response of sugarcane crop to drip method of irrigation, Cooperative Sugar, Volume 23(10): p 673-677.

7. Parikh,M.M.,Shrivastava,P.K.,Savani,N.G. and Raman,S.(1993) Feasibility of drip in Sugarcane, National Workshop on sprinkler and drip irrigation systems, INCID, New Delhi : p 124-127.
8. Shrivastava,P.K., Parikh,M.M., Savani,N.G. and Raman,S.(1993) Response of sugarcane to sprinkler irrigation, Indian Sugar: p 761-763.
9. Shrivastava,P.K.,Savani,N.G.,Parikh,M.M. and Raman,S. (1993) Hydraulics and surface horizontal movement under microtube drip system, GAU Res. J.,Vol 19(1): p 21-28.
10. Parikh,M.M.,Savani,N.G.,Shrivastava,P.K.,Holer,G.H.,Shah,G.B.and Raman,S (1994) Nitrogen economy in Banana through fertigation ; J. of Water Management Vol 2(1&2) : 10-13
11. Parikh,M.M.,Shrivastava,P.K.,Savani,N.G. and Raman,S.(1996) Hydraulic characteristics of emitters and microtubes, All India Seminar on Modern Irrigation Techniques, 26-27th June organized by Institute of Engineers (Agric.Engg.Div.) Held at Banglore: p.242-250.
12. Shrivastava,P.K. and Ghanshyam Das (1998) A review of rainfall simulator for soil erosion studies, Indian Journal of Soil Conservation, Vol 26(2) ; 76-80
13. Shrivastava,P.K. and Ghanshyam Das (1998) A rainfall simulator for lab studies, Hydrology Journal, Vol XXI (1-4) : 74-82
14. Shrivastava,P.K. and Patel, B.R. (1999) Role of Agricultural Engineers in increasing the food production in India, Seminar on Role of Agricultural Engineers in Mechanization for Sustainable Agriculture Organised by GAU and Gujarat Chapter of ISAE on 16th Jan 1999 held at Junagadh, Proceedings : 24-27
15. Shrivastava, P. K. , Parikh, M. M., Savani, N. G. and Raman, S.(1999) Response of banana to drip irrigation, mulches and irrigation scheduling in South Gujarat, Agricultural Engineering Today, Vol 23 (3-4) : 29-38
16. Raman, S and Shrivastava, P.K. (1998) Water management practices to minimize on farm losses in heavy soils, Paper published in Salinity Management in Agriculture Ed. Gupta, S.K., Sharme, S.K. and Tyagi, N.K., proceedings of National Conference on Salinity Management in Agriculture held at CSSRI Karnal 2 – 5 Dec. 1998 : 341 - 348
17. Shrivastava, P. K. (2001) Water crisis – a case study of Jabalpur, Down to Earth, May 31st Vol 10(1) : p50
18. Raman, S., Ahlavat, R.P.S., Shrivastava, P.K., Patil, R.G., and Patel, R.B. (2001) Water resources and Agricultural water demand management in Gujarat, Souvenir of State level workshop in capacity building organized by Acharya N G Ranga Agricultural University and ILRI, Wageningen, from 28th Nov. to 30th Nov 30 2001, at Hyderabad : 70 – 93
19. Shrivastava,P.K. and Ghanshyam Das (2001) A laboratory model for rainfall – runoff – sediment yield relationships, Indian Journal of Soil Conservation, Vol 29(2) ; 118 - 125
20. Patel, B. R. and Shrivastava, P. K. (2001) Water management system in the Netherlands, Agricultural Engineering Today, Vol 25 (1-2) : 19-26
21. Patel, B. R. and Shrivastava, P. K. (2001) Effect of subsurface drainage on the growth of mango plants in waterlogged soil, Agricultural Engineering Today, Vol 25 (3-4) : 41-46
22. Shrivastava, P. K., Patel, A. M. and Oosterbaan, R. J. (2002) SALTMOD model validation and application in Segwa minor canal command area, Journal of Agricultural Engineering, Vol 39(4): 37-48

23. Shrivastava, P. K, Mallik M and Patel U. N. and Rao T.R. (2005) Experimental Agromet Advisory Services at Navsari, *Agricultural Engineering Today* Vol 27 (1 &2) : 22-28
24. Shrivastava, P. K., Navadia, L. J. and Patel, B. N. (2006) Fertigation in onion using mini sprinklers, Paper published in Proceedings of 19th National Convention of Agricultural Engineers & National Seminar on Role of Information Technology in Hi – Tech Agriculture and Horticulture, Organized by Agricultural Engineering Division Board of The Institution of Engineers (India): 162 – 170
24. P. K. Shrivastava and B. R. Patel (2008) Design of deep open drains for sugarcane crop in the ukai right bank canal command area using probability distribution, *Indian Journal of Soil Conservation*, Vol 36 (1) ; 31 - 34
25. Shrivastava, P. K., Navadia, L. J. and Patel, B. N. (2009) Feasibility study on rabi onion grown in kyari lands using mini sprinklers, *Crop Research*, Vol 37 (1, 2 & 3) : 119-123
26. Parmar V. R. and Shrivastava, P. K., (2009) Variability of temperature in South Gujarat coast, *Journal of Agrometeorology*, Vol. 11 (Special Issue) : 204-207
27. Shrivastava P. K, Patel B. N. and Patel, S. N. (2010) Pitcher irrigation for young mango plantation in water scarce hilly tracts of South Gujarat, *Indian J. Hort.* 67 (Special Issue), November 2010: 436-438
28. Tripathi, Sonal, Patel, H M, Shrivastava P K, and Bafna A M (2011) An assessment of ground water quality of eighteen selected locations of South Gujarat, *Indian J. Environ. & Ecoplan.* 18 (1) : 177-184
29. P. K. Shrivastava, A. M. Patel and D P Patel (2012) Rain Water Harvesting in Navsari Agricultural University Campus – a case Study, Full length Paper published in Proceedings of National Consultation Meeting on “Application Technologies for Harvested Rainwater in Ponds”, organized by Central Research Institute for Dry land Agriculture (CRIDA), ICAR, Hyderabad, Mar.19 – 20, 2012
30. Parmar V. R., Shrivastava, P. K., and Patel B. N. (2012) Study on weather parameters affecting the mango flowering in south Gujarat, *Journal of Agrometeorology*, Vol. 14 (Special Issue) : 351 -353.
31. Patel Darshana, Shrivastava, P. K., and Patel D. P. (2013) Study on Noise pollution in Navsari city of South Gujarat, *Journal of Environmental Research and Development*, Vol. 8 (2) : 291 – 298
32. Tripathi, Sonal, Patel, H. M., Shrivastava P K, and Bafna A. M. (2013) Assessment of water quality index of bore well water, some selected locations of South Gujarat, *J. of Environmental Science & Engineering.* 55 (4) : 456-465
33. Mali S.C., Shrivastava P.K. and Thakare H.S. (2014) Impact of weather changes on sugarcane production, *Research in Environment and Life Sciences*, Vol. & (4) : 243-246
34. Surve Nilam, Patel, D. P., Shrivastava, P. K. and Satasiya K. F. (2014) Impact of different cropping systems on properties of soil and water in different micro watersheds, *Journal of Applied and Natural Science* 6(2) : 524 – 529
35. Thakare, H. S., Shrivastava, P. K.. and Kirti Bardhan (2014) Impact of weather parameters on cotton productivity at Surat (Gujarat), India, *Journal of Applied and Natural Science* 6(2) : 599 – 604
36. Surve Nilam Vijay, Shrivastava, P. K. and Narendra Singh (2014) Economic feasibility of farm pond for watershed development, *Eco. Env. & Cons.* 20 (4) : 1847-1851
37. Patel Darshana, Shrivastava, P.K. and Patel, D.P. (2015) Economic solution to remove microbes from harvested roof water, *Eco. Env. & Cons.* 20 (Suppl) : S143- S148

38. Nayak Dileswar, Patel, D.P., Thakare H.S., Satashiya, K. and Shrivastava, P.K. (2015) Evaluation of air pollution tolerance index of trees, Research in Environment and Life Sciences, Vol 8 (1) : 7 – 10
39. Bardhan K., Patel D.P., Thakare H.S. and Shrivastava P. K. (2015) Influence of Different Temperature Regimes on Growth and Yield of Rice, International Journal of Agriculture Sciences, Volume 7, Issue 4, : 502-509

III Bulletin / Report:

1. Parikh,M.M.,Shrivastava,P.K.,Savani,N.G., Parekh,D.P. and Raman,S (1998) Climatologic and crop stage based drip irrigation schedules for major crops of Gujarat, Soil and Water Management Bulletin No 5, GAU Navsari, 41 p
2. Awadariya,J.D., Parekh,D.P., Shrivastava,P.K., Lad,A.N., and Raman,S (1998) Introduction to computers and its usage in the field of soil and water management , Soil and Water Management Bulletin No 7, GAU Navsari, 41 p
3. Parikh,M.M., Lad,A.N., Shrivastava,P.K., Patel,A.M. and Raman,S (1999) Pre-Drainage Investigations In Segwa Pilot Area, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWMP, IDNP,Tech, Rep 1, 42 p
4. Shrivastava,P.K., Parikh,M.M., and Raman,S (1999) Diagnosis of Existing Irrigation System in Segwa Pilot Area, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWMP, IDNP,Tech, Rep 2, 32 p
5. Parikh,M.M., Shrivastava,P.K., Lad,A.N., and Raman,S (1999) Drainage System Design, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWM, Tech, Bull 12, 45 p
6. Shrivastava, P. K., Savani, N. G, Lad, A. N., Parikh, M. M., and Raman, S (2000) Drainage system Installation in Segwa Pilot Area, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWMP, IDNP,Tech, Bull 14, 30 p
7. Patel,B.R., Shrivastava,P.K. and Raman, S. (2000) Report on Water Balance Study, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 4: 8 p
8. Shrivastava, P. K., Patel, B. R. and Raman,S (2001) Drainage Design for Ukai Right Bank Canal Command Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWMP, IDNP,Tech, Bull 15, 30 p
9. Shrivastava,P.K, Patel,B.R., Makvana, G.K. and Raman, S. (2001) Report on Inventory of existing irrigation system at Sisodara Pilot Area, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 5: 7 p
10. Patel,B.R., Shrivastava,P.K. and Raman, S. (2001) Report on Conveyance Losses Study, Indo Dutch Network Project, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 6: 12 p
11. P. K. Shrivastava, B. R. Patel, G. K. Makvana, S Raman (2001) Drip Irrigation in Sugarcane, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 7: 17 p
12. P. K. Shrivastava, A. M. Patel, and S Raman (2001) Salt and Water Balance Study at Segwa Pilot Area, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 8: 21 p
13. P. K. Shrivastava, B. R. Patel, G. K. Makvana, S Raman (2001) Well Irrigation in Sugarcane, A Case Study of Segwa Pilot Area, Gujarat Agricultural University, Navsari; SWM IDNP Tech. Rep. 9: 5 p

14. P. K. Shrivastava and S Raman (2001) District – wise Crop and Domestic Water Demands of Gujarat, Gujarat Agricultural University, Navsari;SWM IDNP Tech. Bull. 18 : 65 p
15. Mallick, M., Shrivastava P. K. and Patel, U. N. (2002) Annual Report of Experimental Agrometereology Advisory Service : p
16. Shrivastava, P. K., Patel, B. N. and Patel, S. N. (2004) Research Abstracts of Water Management Water Management Project, Agriculture Experimental Station, Navsari Agricultural University, Paria, Ta. – Pardi, Dist. Valsad :10 p
17. Dileswar Nayak and P. K. Shrivastava (2010) Status Report of Establishment of Center on Environmental Studies, Dept. NRM, ASPEE College of Horticulture & Forestry, NAU, Navsari: 37 p
18. Vyas H U and Shrivastava P K (2012) Comprehensive District Agriculture Plan (C-DAP), District Surat, Department of Agriculture & Cooperation, GOG, Gandhinagar : 197 p
19. Shrivastava P K and Sarika Santu Wandre (2013) Design and Planning of Rain Water Harvesting Structures for University Farms at Bharuch, Department of Natural Resource Management, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari : 39 p
20. Shrivastava P K and Sarika Santu Wandre (2013) Design and Planning of Farm Pond for Tanchha Research Station, Department of Natural Resource Management, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari : 10 p

IV Thesis

1. Shrivastava,P.K. and Pandey, T. (1986) Testing and evaluation of manual seed cum fertilizer drill,B.Tech.Thesis, J.N.K.V.V., Jabalpur.60 p.
2. Shrivastava,P.K. (1988) Crop water production function and optimal irrigation programme for wheat, M.Tech. Thesis, J.N.K.V.V., Jabalpur. 74 p.
3. Shrivastava,P.K.(1996) Design and Development of a laboratory model for studies on rainfall-runoff-sediment yield relationship, Ph.D. Thesis, G.B.Pant Univ. of Agric. and Tech., Pantnagar. 119 p.
4. Surendra Kumar (2012), Evaluation of farm pond constructed in campus watershed, MSc Thesis of College of Horticulture & Forestry, NAU, Navsari, 95 p
5. Surve Nilam Vijay (2013), Evaluation of changes in micro watersheds of NAU campus during last decade, MSc Thesis of College of Horticulture & Forestry, NAU, Navsari, p

V. Recommendations to the Farmers:

1. Study on drip irrigation for banana crop (1992).
2. Feasibility of drip irrigation for tomato crop with mulches (1992).
3. Study on sprinkler method of irrigation for sugarcane crop (1993).
4. Study on drip irrigation for sugarcane crop (1993).

5. Effect of plant spacing and mulches on banana yield under drip irrigation system (1994)
6. Nitrogen management in banana under drip method with mulches (1994)
7. Model SALTMOD for forecasting water table and salinity status due to irrigation and drainage (2002)
8. Model CROPWAT for estimating crop water requirements (2002)
9. Fertigation through mini sprinkler in onion crop (2006)
10. Pitcher irrigation in young mango plants (2007)
11. Percolation pit for clay soils of South Gujarat (2010)
12. Rain Water Harvesting for sustaining ground water quality in coastal South Gujarat (2012)
13. Time series analysis of weather parameters in relation to crop productivity
14. Roof top rain water harvesting for potable use (2014)
15. Disinfecting drinking water against any microbial activity by storing water in a copper vessel (2014)
16. Need to develop new rice varieties in context of future global warming. (2014)
17. Rainfall based crop planning for Dediapada (2014)

VI. Popular Articles Published:

1. Shrivastava,P.K.,Savani,N.G.,Parikh,M.M. and Raman,S. (1990) Krushi kshetraman plastic no vivdha upyog (Gujarati), Krishi Govidya Vol. 43(7) : p 9-12.
2. Savani,N.G.,Shrivastava,P.K.,Parikh,M.M. and Raman,S. (1992) Ksharyukt parsthitiman drip padhatino upyog (Gujarati), Krishi Jeevan, Vol 24(9) : p 14-16.
3. Shrivastava,P.K. and Patel, Pankaj (1998) Drip nu rundhavu karan ane upaya (Gujarati), Agrotech Vol 2 (3) : p 42 - 45.
4. Patel,B.R., Patel,K. and Shrivastava,P.K. (1999) Tatkalik krishi utpadan vadharva matena agtyana upayo (Gujarati), Narmada Kisan Parivar Patra, Vol 15(7): 18-20.
5. Patel,B.R., Shrivastava,P.K. and Patel,K. (1999) Bharat man badlata mausam ane krishi utpadan man tathi teni asar (Gujarati), Vavetar Vol 1(7-9): 29-31.
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2. Shrivastava, P.K., Savani, N.G., Parikh, M.M. and Raman, S. (1991) Hydraulics and surface horizontal movement under microtube drip system, Paper presented in XXVII Annual Convention of ISAE held at New Delhi from 9-11th Oct. 1991.
3. Shrivastava, P.K., Parikh, M.M., and Raman, S. (1990) Performance testing of some commercial emitters, Paper presented in XXVI Annual convention of ISAE held at Hissar from Feb. 7-9th 1990.
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11. Shrivastava, P.K. and Patel, B.R. (1999) Role of Agricultural Engineers in increasing the food production in India, Seminar on Role of Agricultural Engineers in Mechanization for Sustainable Agriculture Organised by GAU and Gujarat Chapter of ISAE on 16th Jan 1999 held at Junagadh,

Proceedings : 24-27

12. Shrivastava, P. K. (2001) Water Crisis, Present and Future – A case study of Jabalpur, Fifteenth National Convention of Agricultural Engineers & National Seminar on Sustainable Development of Agricultural Engineering, Organized by Institution of Engineers, Jabalpur Center from 29-30th Dec 2001 : p 21
13. Shrivastava, P. K., Vashi, D. R. and Patel, R. B. (2001) Soil conservation measures adopted to check erosion, Fifteenth National Convention of Agricultural Engineers & National Seminar on Sustainable Development of Agricultural Engineering, Organized by Institution of Engineers, Jabalpur Center from 29-30th Dec 2001 : p 38
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16. Shrivastava, P. K., A. M. Patel, and S Raman (2002) Estimation of Crop Water Requirement of Major Crops of South Gujarat Using CRIWAR and CROPWAT Models, Annual Workshop held at CSSRI Karnal from 1 to 3rd March 2002
17. Shrivastava, P. K., A. M. Patel, and S Raman (2002) Prediction of Situations in Segwa Minor Canal Command Using SALTMOD, Annual Workshop held at CSSRI Karnal from 1 to 3rd March 2002
18. Shrivastava, P. K., J. Boonstra, and S Raman (2002) Design Specifications for Furrow method of Irrigation in Sugarcane Crop Using SURDEV Model, Annual Workshop held at CSSRI Karnal from 1 to 3rd March 2002
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27. Shrivastava, P. K. and Mallik, M. (2005) Experimental agromet advisory services at Navsari, Paper presented in XXXIX Annual Convention & Symposium of ISAE held at Acharya, N. G. Ranga Agricultural University, Hyderabad from March 9-11th 2005, Souvenir: 180-181
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31. Shrivastava, P. K., Kaleriya, K. A., Parmar, Vipul and Patil R.G. (2010) Time Series Analysis of Temperature Variations and its Impact on Sugarcane Crop, National Symposium on Climate Change and Rainfed Agriculture, Organized by Central Research Institute for Dryland Agriculture at Hyderabad from February 18 - 20, 2010: p 88- 90
32. Shrivastava P K. (2010) Groundwater Management under high water table conditions, Compendium Winter School on Water Resources Management in Coastal Area for Enhancing Water Productivity, Oct. 11-31, 2010, Organized by Soil and Water Engineering Department, College of Agricultural Engineering and Technology, JAU, Junagadh : 283-289
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36. P. K. Shrivastava, A. M. Patel and D P Patel (2012) Rain Water Harvesting in Navsari Agricultural University Campus – a case Study, Paper presented in National Consultation on “Application Technologies for Harvested Rainwater in Ponds”, organized by Central Research Institute for Dry land Agriculture (CRIDA), ICAR, Hyderabad, Mar.19 – 20, 2012
37. Shrivastava, P. K. (2012) Water Management Action Plan at District Level for Climate Resilient Agriculture, Paper presented in National Workshop on “Micro Level Action Plan at District Level for Climate Resilient Agriculture”, organized by AAU, Anand, NCCSD, Ahmedabad, ICAR, and Planning Commission, Jun. 29-30, 2012

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39. Shrivastava P. K., A. M. Patel and D P Patel (2013) Rain Water Harvesting in Navsari Agricultural University Campus – a case Study, 47th Annual Convention of ISAE and International Symposium on “Bio Energy – Challenges and Opportunities”, Jan. 28 – 30, Hyderabad
40. Shrivastava,P.K. (2013) Environmental Status of Navsari – A perspective, Presentation in one day workshop on “Urban Environmental Governance – A Vision for Navsari & Vijalpore” at NAU Navsari in collaboration with University of Lausanne.
41. Shrivastava,P.K. (2013) Impact of Climate Change on Horticultural Crops, Lecture deliver on Dec. 5, 201, in Winter School on “Current Trends in Commercial Horticulture” from Dec. 1 to 21, 2013, at ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari, Sponsored by ICAR :
42. Shrivastava,P.K. (2013) Water Recycling and Management in Urban Areas, Lecture deliver in National Workshop on “Urban and Periurban Horticulture” on Dec. 21, 2013, at ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari, Organized by Hort. Soc. of Guj., NAU, GAAS, ACHF, Confederation of Hort. Assoc., of India (CHAI), Sponsored by NHM. : 155-163
43. Shrivastava,P.K. (2014) Smart Horticulture through Watershed Management, Lecture deliver in Global Conference on “Technological Challenges and Human Resources for Climate Smart Horticulture Issues and Strategies” from May 28 to 31, 2014, at ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari, Organized by ASM Foundation and NAU :
44. Shrivastava,P.K., D.P.Patel, K. F. Satasiya and D. C. Patel (2015) Harvesting Roof Water to Tackle Water Crisis in Tribal Areas, International Conference on “Natural Resource Management for Food Security and Rural Livelihoods” at New Delhi, February 10-13, 2015, : 150
45. Shrivastava,P.K., Surendra Kumar, Narendra Singh and N M Shah (2015) Evaluation of Benefits from Harvested Rain Water in a Farm Pond, Paper presented in International Conference on “Natural Resource Management for Food Security and Rural Livelihoods” at New Delhi, February 10-13, 2015, : 151
46. Lakkad, A. P., G. R. Sharma, Vijay Singh and P. K. Shrivastava (2015) Cadastral Level Agricultural Resources Planning Through Remote Sensing and GIS Techniques, Posterr presented in International Conference on “Natural Resource Management for Food Security and Rural Livelihoods” at New Delhi, February 10-13, 2015, : 453

ANNEXTURE II

Workshop / Seminar / Conventions / Symposium attended

| S.No | Occasion | Place | Date | Remark / Theme |
|------|---------------------|------------|---|---|
| 1. | XXV ISAE Convention | Udaipur | Jan. 5 th - 7 th , 1989 | Food Security Through Agricultural Engineering Technology |
| 2. | Workshop | M.S. Univ. | | Flow measurements and Measuring |

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|-----|--|-----------------------|---|--|
| | | Baroda | | Structures |
| 3. | XXVI ISAE Convention | Hissar | Feb. 7 th - 9 th , 1990 | - |
| 4. | Gujarat Association of Agricultural Sciences | Anand | Sep. 1990 | Seminar on Drip Irrigation System |
| 5. | XXVII ISAE Convention | New Delhi | Oct. 9 th - 11 th , 1991 | - |
| 6. | XXVIII ISAE Convention | Bhopal | Mar. 2 nd - 4 th , 1993 | - |
| 7. | National Seminar | GAU Navsari | Sep. 16 th - 20 th , 1998 | Frontiers of Research and its Application in Coastal Agricultural |
| 8. | National Conference | Karnal | Dec. 2 nd - 5 th , 1998 | Salinity Management in Agriculture |
| 9. | ISAE Gujarat Chapter | Junagadh | Jan. 16 th , 1999 | Role of Agricultural Engineers in Mechanization for sustainable Agriculture |
| 10. | Annual Workshop of Indo Dutch Project | CSSRI Karnal | Mar. 1-3 rd , 2002 | |
| 11. | XI Annual Workshop of Agrometeorology Advisory Service (AAS) | KAU, Thrissur, Kerala | Nov. 28 th - 30 th , 2002 | |
| 12. | National Seminar | Junagadh | Jun. 14-15, 2003 | Challenges in management of production, post harvest, processing and marketing |
| 13. | XXXIX ISAE Convention & Symposium | Hyderabad | Mar. 9 nd - 11 th , 2005 | Engineering technologies for efficient water management in agriculture |
| 14. | XIX National Convention of Agricultural Engineers | Bangalore | Jan. 27 - 28, 2006 | Role of Information Technology in Hi - Tech Agriculture and Horticulture |
| 15. | XLI (41 st) ISAE Annual Convention | Junagadh | Jan. 28-31 st , 2007 | |
| 16. | Leadership Development Programme | NAU Navsari | Sep. 10 th -19 th , 2004 | - |
| 17. | National Symposium | CRIDA, Hyderabad | Feb. 18 th - 20 th , 2010 | Climate Change and Rainfed Agriculture |
| 18. | Workshop | NAU Navsari | Oct. 30 th , 2010 | Agriculture based livelihood promotion under Integrated Watershed Management Programme |
| 19. | National Workshop | Mumbai Univ. | Dec. 19-20, 2011 | Promotion of Eco-Agriculture for Sustainability and Climate Change Impacts Management |
| 20. | National Consultation | CRIDA, Hyderabad | Mar. 19 - 20, 2012 | Application Technologies for Harvested Rainwater in Ponds |
| 21. | National Workshop | AAU Anand | Jun. 29 - 30, 2012 | Micro Level Action Plan at District Level for Climate Resilient Agriculture |
| 22. | National Seminar | NAU, Navsari | Jan. 9-11, 2013 | Tropical and Subtropical Fruits |
| 23. | 47 th Annual Convention of ISAE and International Symposium | ANGRU, Hyderabad | Jan. 28 - 30, 2013 | Bio Energy - Challenges and Opportunities |
| 24. | Workshop | ACHF, NAU Navsari | Sep. 18 th , 2013 | Bamboo for rural Gujarat |
| 25. | Workshop | ACHF, NAU Navsari | Sep. 28 th , 2013 | Urban Environmental Governance - vision for Navsari & Vijalpore |

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|----|--------------------------|----------------------|-------------------------|--|
| 26 | National Workshop | ACHF, NAU Navsari | Dec. 21, 2013 | Urban and Periurban Horticulture |
| 27 | Global Conference | ACHF, NAU Navsari | May 28 to 31, 2014 | Technological Challenges and Human Resources for Climate Smart Horticulture Issues and Strategies |
| 28 | International Conference | NASC, New Delhi | February 10-13, 2015 | Natural Resource Management for Food Security and Rural Livelihoods |

ANNEXTURE-III

Fields of Interest

1. Surface and Sub-surface Drainage
2. Drip and Sprinkler Irrigation
3. Rain water harvesting
4. Watershed Management with emphasis on soil & water conservation
5. Irrigation scheduling
6. Rainfall simulators
7. Water Conservation through forestation