

BIO DATA

1. Name Dr. S. R. BHAKAR
2. Father's Name Late Shri B. R. Bhakar
3. Address:Office Associate Professor
Department of Soil and Water Engineering,
College of Technology and Engineering
Maharana Pratap University of Agriculture and Technology
Udaipur –313001, Rajasthan, INDIA
- Mailing: R-3, University Campus,
Pratap Nagar, Udaipur - 313001
Rajasthan, INDIA
- E-mail: srbhakar@gmail.com
srbhakar@rediffmail.com
- Phone: Office: 0091-294-2470516
Residence: 0091-294-2471594
- Fax: 0091-294-2470682
4. Date of Birth 3rd February 1962
5. Nationality Indian
6. Marital Status Married
7. **Details of employer:**

Name of employer	From	To	Nature of duties	Designation
Rajasthan Agricultural University (RAU), Bikaner	29 th Dec. 1986	30 th Nov. 1992	Teaching and Research	Assistant Professor
RAU Bikaner and Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur	1 st Dec. 1992	18 th May 2001	Teaching and Research	Assistant Professor (Senior Scale)
MPUAT, Udaipur	19 th May 2001	20 th June, 2005	Teaching and Research	Associate Professor (CAS)
MPUAT, Udaipur	21 st June, 2005	19 th Aug., 2009	Teaching and Research	Associate Professor
MPUAT, Udaipur	20 Aug. 2009	Continue	Research and Teaching	Research Engineer

8. Academic career:

Exam. passed	Board / University	Year	Per cent marks	Specialization
Secondary	Rajasthan Board, Ajmer	1978	67.33	Science, Mathematics
Higher Secondary	Rajasthan Board, Ajmer	1979	68.25	Science, Mathematics
B.E.(Ag.)	Sukhadia University, Udaipur (Rajasthan)	1985	3.3/4.0	Agricultural Engineering
M.Tech.	I.I.T., Kharagpur (W.B.)	1986	8.7/10.0	Water Resources Development and Management
Ph.D.	Maharana Pratap University of Agriculture and Technology, Udaipur	2000	-	Soil and Water Conservation Engineering

9. Teaching Experience:

<i>Subject Taught</i>	<i>Level</i>
1. Advanced Drainage Engineering	Ph.D.
2. Aerodynamics of evapotranspiration	Ph.D.
3. Design of Drip and Sprinkler Irrigation System	Ph.D.
4. Rainfall Runoff Modelling	Ph.D.
5. Soil Water Plant Relationship	Ph.D.
6. Design of Surface Irrigation System	M.E. (Ag.)
7. Reclamation of irrigated Lands	M.E. (Ag.)
8. Ground Water Hydrology	M.E. (Ag.)
9. Farm Irrigation structures	M.E. (Ag.)
10. Dry Land Technology	M.E. (Ag.)
11. Land Reclamation and Drainage Engineering	B.E. (Ag.)
12. Design Principles of Irrigation Systems	B.E. (Ag.)
13. Drainage Engineering	B.E. (Ag.)
14. Wells and Pumps	B.E. (Ag.)
15. Agricultural Engg.-II	B.Sc. (Ag.)

10. Membership of Technical Societies:

1. Indian Water Resources Society (F-06-1204)
2. Indian Society of Agricultural Engineers (LM-37)
3. The Institution of Engineers (India) (M-1216 98-2)
4. Indian Society for Technical Education (LM - 41552)
5. Indian Association of Soil & Water Conservationists (LM 1450 – B)
6. Indian Association of Hydrologists (LM – 1384)
7. Association of Agrometeorologists (LM-302)

11. Contribution in the research projects:

1. Research Engineer in All India Coordinated Research Project on “Application of Plastics in Agriculture” from ICAR since 20 August, 2009.
2. CO-PI in research project on Co-PI in research project on “Study of Irrigation Efficiencies to Find Out Proper Bed Size for Irrigation in Right Main Canal Command of Nand Samand Irrigation Project” under RWSRP, Government of Rajasthan Amount Rs. 6.46 lakh.
3. CO-PI in Consultancy Project on “Study of Salt and Water movement in the evaporation pond and surrounding area” from RSMM Ltd., Lignite Mines, Nagaur. Since February, 2006. Amount: Rs. 6,41,460/- (Rupees Six lakhs forty one thousand four hundred sixty).
4. PI for All India Coordinated Research Project on “Optimization of Ground Water Utilization through Wells and Pumps”. From ICAR. Since April, 2004 to 20th June, 2005.
5. PI for three year project on “Stochastic modelling of agrometeorological phenomena for the farm water management planning” from ICAR amount Rs. 10,81,248/- (Rupees Ten lakhs eighty one thousand two hundred forty eight only).
6. CO-PI in National Agricultural Technology Project on Resource Characterization and Socio-Economic Constraints Analysis of Productivity in the Maize Based Crop Production System (RNPS-18) from 1st July 2001 to 31st December 2002. Amount 79 lakh.

12. Awards / Appreciation awarded

1. **International Award for Agricultural Based Book Writing:** Dr. S.R. Bhakar received **Chaudhary Charan Singh Award at International level for Agriculture based Book Writing** in the field of Agriculture by Kishan Keshri Shri baldev Ram Mirdha Memorial on the occasion of First Indo-Nepal Open Desert Event South Asia Cup 2011.
2. **Outstanding Book Award** for the year 2008-09 by Indian Society of Agricultural Engineers, New Delhi for the Book on "Ground Water Hydrology" by M.L. Jat and **S.R. Bhakar**.
3. Soil Conservation Society of India student incentive award -2009 is awarded to Dr. G.V. Srinivasa Reddy, Department of Agricultural Engineering, University of Agricultural Sciences, Bengaluru for contribution of his research work in Ph.D., during 2009 on Drought Modelling of different Agro-climatic Zones of Karnataka State under the guidance of **Dr. S.R. Bhakar**, the faculty of Soil and Water Conservation engineering in MPUAT, Udaipur, Rajasthan along with cash award of Rs. 5000/-.
4. **Outstanding Book Award** for the year 2006-07 by Indian Society of Agricultural Engineers, New Delhi for the Book on "Sinchai Ke Sidhant" by R.V. Singh and **S.R. Bhakar**.
5. Indian Water Resources Society awarded Fellowship (FIWRS-06-1206)
6. Certificate of Appreciation from Indian Society of Technical Education on Evaluation for guiding thesis entitled "Drain Spacing Equations and Synthetic Envelopes in Indira Gandhi Canal Command" which awarded the first prize for the year 2001 in the **Best M.Tech. Thesis** in Agricultural Engineering instituted by Punjab Agricultural University. Ludhiana.
7. Award of certificate of Test of English as a Foreign Language (TOEFL), October 1990.
8. Award of Scholarship through Graduate Aptitude Test in Engineering, 1985 in Agricultural Engineering with score 94.93.
9. Certificate of merit and award of scholarship from National Council of Educational Research and Training (NCERT) for National Talent Search Examination, 1979.

13. Publications:

I PAPERS PUBLISHED IN RESEARCH NATIONAL AND INTERNATIONAL JOURNALS

1. Deepa Ashokan, S.R. Bhakar, Deepesh Machiwal, H.K. Jain and R.C. Purohit. 2010. Development of crop coefficient curves for different growth periods of *Kharif* Groundnut. Journal of Agrometeorology. 12 (2): 256-260.
2. Kumar, R., **S.R. Bhakar**, D Jhajharia and D.G. Durbude. 2009 Performance evaluation of Synthetic envelopes in Indira Gandhi Command Area, Rajasthan. The ISH Journal of Hydraulic Engineering. 15(2):1-15.
3. Deora, B.S., R.V. Singh, and **S.R. Bhakar**. 2009. Stochastic modeling of water deficit under climatic condition of S.K. Nagar (Gujarat). Indian Journal of Soil Conservation. 37(1):1-9.
4. Jadhav, K.A. and **S.R. Bhakar**, 2009. Stochastic modeling of gram evapotranspiration under the climatic conditions of Udaipur. Journal of Indian Water Resources. 29(1):1-7.
5. Reddy G.V.S., **S.R. Bhakar**, R.C. Purohit and A.K. Chittora. 2008. Markov Chain model probability of dry, wet weeks and statistical analysis of weekly rainfall for Agricultural planning at Bangalore. Karnataka J. of Agric. Sci. 21(1):12-16.
6. **Bhakar, S.R.**, A.K. Bansal and N. Chhajed. 2008. Frequency analysis of consecutive Days Maximum Rainfall at Udaipur. Journal of The Institution of Engineers (India). 89:14-16.

7. **Bhakar, S.R.** and R.V. Singh. 2008. Forecasting monthly wind speed for Udaipur region. *Journal of Agrometeorology*. 10(1):46-52.
8. **Bhakar, S.R.** R.V. Singh, Neeraj Chhajed and Anil Kumar Bansal. 2008. Stochastic modeling of relative humidity at Banswara. *Journal of Agrometeorology*. 10(1):53-58.
9. **Bhakar S.R.**, M. Iqbal, M. Devenda, N. Chhajed and A.K. Bansal. 2008. Probability Analysis of Rainfall at Kota. *Indian J. Agric. Res.* 42(3):201-206.
10. Reddy Srinivasa, **S.R. Bhakar** and R.C. Purohit. 2008 Drought evaluation and climatic variability assessment in Bangalore region, Karnataka. *Indian Journal of Soil Conservation*. 36(1):6-10.
11. Reddy, G.V.S., **S.R. Bhakar**, R.C. Purohit and P.K. Dashora. 2007. Climatic parameters over Bangalore, Karnataka. *Environment and Ecology*. 25S(4): 1036-1039.
12. Verma R.P., **S.R. Bhakar** and G.S. Bhardwaj. 2007. Estimation of aquifer parameters in phillite hard rock area at Udaipur. *Journal of Indian Water Resources Society*. 27(3-4): 31-34.
13. Ranwah, A. A.K. Jhajharia, **S.R. Bhakar** and J.X. Massey. 2007. Performance evaluation of agricultural weather forecasting at Udaipur. *Journal of Indian Water Resources Society*. 27(3-4):20-23.
14. **Bhakar S.R.**, R.V. Singh, A.K. Bansal and N. Chhajed. 2007. Rainfall analysis for drought estimation of Kota region. *Journal of Agrometeorology* 9(2): 286-290.
15. **Bhakar S.R.**, Anil Kumar Bansal and Neeraj Chhajed. 2007. Probability analysis of rainfall for crop Planning in Arjia, Bhilwara. *J. Maharashtra Agric. Univ.* 32(2):262-264.
16. Jat M.L., **S.R. Bhakar**, L.K. Jain and J.K. Balyan. 2006. Evaluation of probability models for prediction of soil moisture deficit in Western Rajasthan. *Current Agriculture*. 30(1,2):57-61.
17. **Bhakar, S.R.**, A.K. Bansal, N. Chhajed and R.V. Singh. 2006. Rainfall analysis for drought estimation of Udaipur Region. *Journal of Agricultural Engineering*. 43(3):40-43.
18. Prasad M., A.K. Sharma and **S.R. Bhakar**. 2006. Rainfall modeling for Bhilwara climatic conditions: A case study. *Journal of water Management*. 14(1):30-40.
19. **Bhakar S.R.**, Rajvir Singh, Neeraj Chhajed and Anil Kumar Bansal. 2006. Stochastic modeling of monthly rainfall at Kota region. *ARPJN Journal of Engineering and Applied Sciences*. www.arpnjournals.com 1(3):36-44.
20. **Bhakar S.R.**, Anil Kumar Bansal, Neeraj Chhajed and Purohit R.C. 2006. Frequency analysis of consecutive days maximum rainfall at Banswara, Rajasthan, India *ARPJN Journal of Engineering and Applied Sciences*. www.arpnjournals.com 1(3):64-67.
21. **Bhakar S.R.**, Rajvir Singh and Hari Ram, 2006. Stochastic modeling of wind speed at Udaipur. *Journal of Agricultural Engineering*, 43(1):1-7.
22. Jat M.L.; Rajvir Singh, **S.R. Bhakar**, Arun Gupta and S.K. Sharma. 2006. Stochastic Modeling of Water Deficit under climatic conditions of Jodhpur. *Indian Journal of Dryland Agricultural Research and Development*. 21(1):31-39.
23. **Bhakar, S.R.** and Raj Vir Singh. 2005. Stochastic Modelling of Minimum and maximum Relative Humidity at Udaipur. *Journal of Water Management*. 13(1):27-35.
24. **Bhakar, S.R.** and Raj Vir Singh. 2005. Computer Application in Estimation of Evaporation. *American Society of Agricultural and Biological Engineers, St. Joseph, Michigan*. www.asabe.org
25. Pandey, P.K., Raj Vir Singh and **S. R. Bhakar**. 2004 Modelling on evapotranspiration based on

- growth parameters. *Journal of Agricultural Engineering*. 41(3): 37-40.
26. Machiwal, D., M.K. Jha, A. Sharma, P.K. Dashora and **S.R. Bhakar**. 2004. Optimal water allocation for adequate and deficit water supply in Jakham command of Rajasthan, India. *Journal of Applied Irrigation Science*, Germany, 39(2): 293-314.
 27. **Bhakar, S. Rv .** and Raj Vir Singh 2004 Effect of climatic parameters on evaporation and evapotranspiration. *Journal of Indian Water Resources Society*. 24(1): 12 – 18.
 28. Nagar, M.P., D.R. Saini, **S.R. Bhakar** and R.V. Singh 2004. Comparison of different infiltration equations on different land covers. *Journal of Indian Water Resources Society*. 24(1): 19 – 26.
 29. Jat, M.L., Raj Vir Singh, **S.R. Bhakar** and Arun Gupta 2003. Stochastic Modelling of water deficit under climatic condition of Kota. *Journal of Applied Hydrology*. 16(2):43-52.
 30. Vanita Jha, Raj Vir Singh and **S. R. Bhakar** 2003. Stochastic Modelling of Soil Moisture. *Journal of Agricultural Engineering*, 40(4): 51-56.
 31. **Bhakar, S.R.** and Y.P. Rao. 1993. Design of LDPE lined dugout farm pond, *Journal of Institution of Engineers (India)*: 74:17-19.

II. PAPERS PUBLISHED IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCES

1. Bhakar, S.R. and R.C. Purohit. 2009. Analysis of micro-sprinkler operating characteristics. International Conference on Food Security and Environmental Sustainability held at Indian Institute of Technology Kharagpur during December 17-19. wrwm-bhakar-8.
2. **Bhakar, S.R.**, Santosh Ojha, R.V. Singh and Asif Ansari. 2006. Estimation of evapotranspiration for wheat crop using artificial neural network. Proceedings of 4th World Congress on Computers in Agriculture held at Orlando, Florida, USA from July 24-26. p 305-314.
3. Bansal, A.K., **S.R. Bhakar** and Neeraj Chhajed 2006. Stochastic Modelling of Temperature for Udaipur Climate. Proceedings of International Conference on Environment management Practices in India: Issues, Imperatives and Implications held at Pacific Institute of Management, Udaipur, Rajasthan, India during March 3-5, 2006. p59.
4. Kumar R ; **S.R. Bhakar** and R.V. Singh. 2003. Evaluation of Drain Spacing Equation using Smedma and Roycroft Curve Method in Indira Gandhi Canal Command. Proceedings of International Conference on World Perspective on Short Rotation Forestry for Industrial and Rural Development. Held at Dr. YS Parmar University of Horticulture and Forestry, Nauni, Himachal Pradesh, India. during September 7-13: p170.
5. Kanthaliya, P.C., Arvind Verma and **S.R. Bhakar** 2003. Assessment of suitability for rainfed maize using soil and water balance parameters in Dungarpur district of Rajasthan. Proceedings of International Conference on Watershed Hydrology held at Bhopal, MP. pp. 331-338.
6. Singh, R.V. and **S.R. Bhakar**. 2002. Development of improved crop coefficient for precise estimates of wheat evapotranspiration. Proceedings of Third Asian Conference for Information Technology in Agriculture held during October 26-28 at Chinese Academy of Agricultural Sciences (CAAS) Beijing, China. p.6.
7. Singh R.V., S. Gatachew and **S.R. Bhakar**. 2002. Evaluation of microsprinkler for chilli under arid climatic conditions. Proceedings of 18th International Congress on Irrigation and Drainage, Montreal, Canada. Q.50: Food production, poverty alleviation and environmental challenges as influenced by limited water resources and population growth. Held at Montreal Canada from July 21 to 28 2002.

Vol-1A, Q50:R-3, p-61-62.

8. **Bhakar S.R.** and R.V. Singh. 2001. Computer application in estimation of evapotranspiration. Proceedings of the World Congress of Computers in Agriculture and Natural Resources, Published by ASAE, Michigan, USA. Paper presented in the conference held at Iggassu Falls, Brazil from September 19-21, 2001. p. 864-870.
9. Singh, R.V., **S.R. Bhakar**, B.Singh and R. Kumar (2000). Evaluation of Hydraulic Characteristics of Synthetic drain envelopes. 8th ICID International Drainage Workshop, 31th January to 4th February 2000. Held at New Delhi (India) 4:127-135.
10. Singh R.V., A.S. Solanki, **S.R. Bhakar**, A. Chandra and M.S. Chauhan. 1997. Raising awareness of canal water utilization among tribals of Jakham Irrigation Project. Proceedings of the 9th World Congress of International Water Resources Association held at Montreal, Canada from September 1 to 6 1997. p. 10.

III PAPERS PUBLISHED IN THE PROCEEDINGS OF NATIONAL CONFERENCES

1. Bhakar, S.R. and R.C. Purohit. 2010. Estimation of ground water in hard rock areas. Workshop on Developing Techniques on water use efficiency and conservation. Held during 10-11 Feb. 20 at Swami Keshwanand Rajasthan Agricultural University, Bikaner.
2. Bhakar, S.R., V. Nimkale and R.C. Purohit. 2008. Performance Evaluation of micro-sprinkler under various operating conditions. Proceedings of All India Seminar on “Micro-irrigation for agriculture growth and sustainability of natural resources” held at The Institutions of Engineers, Andhra Pradesh State Centre, Vishvaraya Bhavan, Hyderabad during 18-19 December, 2008 P:19-24.
3. **Bhakar, S.R.**, Neeraj Chhajed and A.K. Bansal. 2007. Stochastic modeling of monthly evaporation at Kota region. Proceedings of 20th National Convention of Agricultural Engineers and National Seminar on Farm mechanization for Diversification of Agriculture, Held at PAU, Ludhiana, Punjab during 19-20 January. p. 126-136.
4. Neeraj Chhajed, **S.R. Bhakar**, Anil K. Bansal 2006. Stochastic modelling of sunshine at Udaipur. Proceedings of National Seminar on Non-Conventional Energy Development in India: Need, Plan & Prospects held at Western U.P. Chamber of Commerce of Industry, Meerut, Cantt- U.P. during 18th March, 2006: 26-39.
5. **Bhakar S.R.**, Raj Vir Singh, Neeraj Chhajed and Anil Kumar Bansal. 2006. Stochastic modelling of minimum and maximum temperature at Banswara. Proceedings of Nineteenth National Convention of Agricultural Engineers & National Seminar on Role of Information technology in Hi-tech Agriculture and Horticulture held at IE (India), Karnataka State Centre, Bangalore during 27-28, January, 2006: 51-63.
6. **Bhakar S.R.**, Anil Kumar Bansal and Neeraj Chhajed. 2006. Rainfall analysis for crop planning in Udaipur Region, Rajasthan. Proceedings of 40th Annual Convention and Symposium of ISAE, Soil & Water Engineering, Section – I, held at Agricultural Engineering College & Research Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003, Tamil Nadu, during 19-21, January. Sec- Hydrology and Watershed Management: 84-88.
7. **Bhakar S.R.**, Neeraj Chhajed and Anil Kumar Bansal. 2006. Stochastic modelling of evaporation at Udaipur. Proceedings of 40th Annual Convention and Symposium of ISAE, Soil & Water Engineering, Section – I, held at Agricultural Engineering College & Research Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003, Tamil Nadu, during 19-21, January. Sec- Hydrology and Watershed Management: 109-119.

8. **Bhakar, S.R.** and Raj Vir Singh 2005. Stochastic modelling of rainfall at Udaipur. (In: Urban Lakes in India: Conservation, Management and Rejuvenation edited by K.K.S. Bhatia and S.D. Khobragade). p.38-48.
9. Bhardwaj G. S. and **S.R. Bhakar.** 2005. Hydro-environmental perspective of mining activities. Proceeding of National Seminar on Environmental Planning and Management in Mining and Mineral - Industries.
10. **Bhakar, S. R.** and Raj Vir Singh. 2004. Artificial ground water recharge through Nadi and Khadin in Western Rajasthan. Proceeding of National Workshop on "Ground Water Recharge and Management through ASR Technology" held at CCS Haryana Agricultural University, Hisar during 15-17 April, 2004. P 89-94.
11. Jat M.L., Raj Vir Singh, **S.R. Bhakar** and Arun Gupta 2004. Stochastic modelling of water deficit under climatic conditions of Pali. Proceedings of the National Seminar on Recent Trends in Water Management, Jan 21-22 at Deptt of Civil Engineering., Alagappa Chettiar College of Eng. and Tech., Karaikudi. P 6-15.
12. **Bhakar S.R.,** R.V. Singh. 2003. Estimation of reference evapotranspiration under the sub-humid climatic conditions of Rajasthan. Proceedings of 37th ISAE Annual Convention, Soil & Water Engineering, Section – II, held at College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, during 29-31, January. Vol-II sec. II: pII-81-II-92.
13. Gupta A.K., R.V. Singh, **S.R. Bhakar** and K.K.Garg. 2003. Prediction of water table fluctuations by Thornthwaite and Mather's water balance method: a case study. Proceedings of 37th ISAE Annual Convention, Soil & Water Engineering, held at College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, during 29-31, January. Vol-II Sec-I: p I-83-I-88.
14. Rohitashw Kumar, **S.R Bhakar,** R.V Singh and Virendra Kumar. 2003. Evaluation of drain spacing equations in Indira Gandhi canal command. Proceedings of 37th ISAE Annual Convention, Soil & Water Engineering, Section-II, held at College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, during 29-31,January.Vol-II Sec-III:p III-26-III-31
15. Sharma, D. K., **S.R. Bhakar** and R. V. Singh. 2003. Modelling of maize evapotranspiration under climatic conditions of Udaipur. Proceedings of 37th ISAE Annual Convention, Soil & Water Engineering, Section – II, held at College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, during 29-31, January. Souvenir p 83.
16. **Bhakar S.R.,** P.C. Kanthalia and Arvind Verma. 2002. Resource characterization of water balance for maize crop under climatic conditions of Udaipur. Proceedings of National Seminar on Water Management and Conservation held at Water and land management Institute, Bhopal, MP during 27-28 December. P-6.
17. Kanthalia, P.C., Arvind Verma and **S.R. Bhakar.** 2002. Assessment of suitability for rainfed maize using soil and water balance parameters in Chittorgarh district of Rajasthan. Proceedings of National Seminar on Water Management and Conservation held at Water and land management Institute, Bhopal, MP during 27-28 December. P-6.
18. Singh, R.V. and **S.R. Bhakar.** 2002. Remedial measures for protection of ground water from pollution. Proceedings of XI National Symposium on Environment on "Environmental Challenges in the twenty first Century". Held at RCA, MPUAT, Udaipur during June 5-7. p.31-35.

19. Singh, R.V. and **S.R. Bhakar**. 1996. Harvesting of rain water for rural water supply in Rajasthan. IWRS, Proceedings of National Seminar on India: Water Resources management in 21st Century, Roorkee. December 27-28, 1996. pp. 167-173.

IV. ABSTRACT PUBLISHED IN THE PROCEEDINGS OF NATIONAL CONFERENCES

1. Reddy, G.V.S., M. Manjunatha, **S.R. Bhakar** and R.C. Purohit. 2009. Dry and wet week probabilities over different agro-climatic zones of Karnataka. Proceedings of 43rd ISAE annual convention & symposium (ISAE09/SWE/HG/08) held at Birsa Agricultural University, Kanke, Ranchi during February 15-17, 2009. p.157-158.
2. Reddy, G.V.S., M. Manjunatha, **S.R. Bhakar** and R.C. Purohit. 2009. Rainfall analysis over different agroclimatic zones of Karnataka. Proceedings of 43rd ISAE annual convention & symposium (ISAE09/SWE/HG/09) held at Birsa Agricultural University, Kanke, Ranchi during February 15-17, 2009. p.158-159.
3. **Bhakar, S.R.**, Dilip Singh and Vikash Sharma. 2009. Performance evaluation of Border Irrigation system at farmer's field. Proceedings of 43rd ISAE annual convention & symposium (ISAE09/SWE/IWM/38) held at Birsa Agricultural University, Kanke, Ranchi during February 15-17, 2009. p. 224.
4. **Bhakar, S.R.** and R.V. Singh. 2005. Stochastic modelling of minimum and maximum air temperature for Udaipur. Proceeding of 39th ISAE annual convention and symposium, Soil and Water Engineering, held at A.N.G.R. Agricultural University, Hyderabad, during 9-11 March, 2005. Sec. I HR-47: p 128.
5. Wadatkar, S.B., **S.R. Bhakar** and R.V. Singh. 2005. Stochastic modelling of pan evaporation under climatic conditions of Nagpur. Proceeding of 39th ISAE annual convention and symposium, Soil and Water Engineering, held at A.N.G.R. Agricultural University, Hyderabad, during 9-11 March, 2005. Sec. I HR-48: p 129.
6. Pandey, P.K., R.V.Singh and **S.R. Bhakar** 2004. Probability analysis of evapotranspiration for irrigation planning. Proceedings of 38th ISAE annual convention and symposium, Soil and Water Engineering, held at C.A.E.T., Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra, during January 16-18, 2004. SWE-2004-IM-27: p 176.
7. Satpute, G.U., R.V.Singh, **S.R. Bhakar** and A. Sharma 2004. Water balance studies and incidence of drought at Akola. Proceedings of 38th ISAE annual convention and symposium, Soil and Water Engineering, held at C.A.E.T., Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra, during January 16-18, 2004. SWE-2004-HD-20: p 207.
8. **Bhakar, S.R.** and R.V. Singh. 1997. Design of Nadi for water Harvesting in arid regions. Souvenir, 32nd annual convention of Indian Society of Agricultural Engineers. Held at College of Agricultural Engineering, Punjab Agricultural University, Ludhiana. Punjab. P-83.
9. Singh, R.V. and **S.R. Bhakar**, 1994. Harvesting of water for domestic water supply in Western Rajasthan. Water Congress. 3-4 May, Kozikode, Kerala p. 1-5.
10. Chauhan M.S., R.C. Purohit and **S.R. Bhakar**. 1993. Social Aspects of Tribal People Development Through Adaptive Research in the Jakham Irrigation Project, Proceedings of the workshop on social Development from 25 to 26 Feb. 1993, held at RAJAD, Kota, Rajasthan.

V. BOOKS Published

1. Jat, M.L., P. Singh, S.R. Bhakar and S.K. Sharma. 2010. Drought Management. Kalyani Publishers, Ludhiana. Pp 428.
2. Jat, M.L. and **S.R. Bhakar**. 2009. Ground Water Hydrology, Theory and Practice. Agrotech Publishing Academy, Udaipur. Pp 552.
3. Rao, Y.P. and **S.R. Bhakar**. 2008. Irrigation Technology: Theory and Practice. Agrotech Publishing Academy, Udaipur pp. 460.
4. Sharma, A., P.K. Dashora, S.M. Narulkar **S.R. Bhakar** and Mahesh Kothari, 2008. Stochastic Hydrology for Use in Agriculture. Himanshu Publications, Udaipur. Pp 360
5. Singh, Raj Vir and **S.R. Bhakar**. 2007 Sinchai ke Sidhanth (Principles of Irrigation) Yash Publishing House, Bikaner. Pp 516.
6. Kumar, V, Jaspal Singh and **S.R. Bhakar**. 2005. Drainage and Irrigation Water Management. Himanshu Publications, Udaipur.

VI. CHAPTER WRITTEN IN BOOK

1. **Bhakar, S.R.** and Raj Vir Singh 2005. Stochastic modeling of rainfall at Udaipur. Urban lakes in India: Conservation, management and Rejuvenation. Page 38-48.
2. **Bhakar, S.R.** and Raj Vir Singh 2005. Estimation of Reference Evapotranspiration under the sub-humid climate condition of Rajasthan. In: Drainage and Irrigation Water Management Edited by Virendra Kumar, Jaspal Singh and S R Bhakar. Page 170-185.
3. Rohitashw Kumar, **S. R. Bhakar**, Raj Vir Singh and Virendra Kumar 2005. Evaluation of Drain Spacing Equation in Indra Gandhi Canal Command. In: Drainage and Irrigation Water Management Edited by Virendra Kumar, Jaspal Singh and S R Bhakar. Page 193-203.
4. Gupta A.K., R.V. Singh, **S.R. Bhakar** and K.K. Garg 2005. Prediction of water table fluctuation by Thornthwaite and Mather Water Balance Method: A case study. In: Command Area Development and Management Edited by Virendra Kumar, Mahesh Kothari & R C Purohit. Page 127-135.
5. **Bhakar, S.R.** and R.V. Singh. 2002. Design and Management of Khadins for water harvesting in western Rajasthan. (Chapter thirteen in Management of Environmental Pollution. Ed. Anju Kohli, Sadhana Kothari and A.P. Choudhary). Book Enclave, Jaipur. P. 152-159.
6. Chauhan M.S., R.C. Purohit and **S.R. Bhakar**. 1993. Social aspects of tribal people development through adaptive research in the Jakham Irrigation Project. (Chapter eight in Irrigation. Agriculture and Social Development. Ed. By Hooja, R. R.C. Bower and S.N. Mundra.), Himanshu Publications. P. 80-87.

VII. PRACTICAL MANUAL WRITTEN

1. **Bhakar, S.R.** and R.V. Singh. 2003. Laboratory Manual on Drainage Engineering. Department of Soil and Water Engineering, College of technology and Engineering, Maharana Pratap University of Agriculture and technology, Udaipur –313001. p-80
2. **Bhakar, S.R.** 1993. Laboratory Manual on Land Reclamation and Drainage Engineering. Department of Soil and water Engineering, College of Technology and Engineering, Udaipur. P. 145.

VIII. REVIEW/RESEARCH/ FEASIBILITY REPORTS

1. Kanthaliya, P. C., **S.R. Bhakar** and Arvind Verma 2003 Assessment of Soil-Site Suitability for Rainfed Maize in South Eastern Rajasthan. MPUAT, Udaipur p. 89 (Co-PI).
2. Resources characterization and social-economic constraints analysis of productivity in the maize based crop production system (NATP – RNPS – 18) final draft report submitted by Lead Center. MPUAT, Udaipur. (Co-PI).
3. Report of core group on water management submitted to Directorate of Research, MPUAT, Udaipur by Department of Soil and Water Engineering, CTAE, Udaipur (Member).

IX. TECHNICAL LECTURES DELIVERED

1. S.R. Bhakar. 2006. On farm water measurement and irrigation efficiencies. Invited lecture delivered in National Level Model training Course on Micro Irrigation system and Water Conservation Equipments held at MPUAT, Udaipur during 9th-16th January, 2006.
2. S.R. Bhakar. 2006. Hydraulic conductivity of soil. Invited lecture delivered in National Level Model training Course on Micro Irrigation system and Water Conservation Equipments held at MPUAT, Udaipur during 9th-16th January, 2006.
3. S.R. Bhakar. 2005. Application of remote sensing and GIS for water management in rainfed area. Invited lecture delivered in three week winter school on Rainwater Harvesting: Sustainable Interventions in Rainfed Agro-Eco-System held at MPUAT, Udaipur during 7th to 26th November, 2005.
4. S.R. Bhakar. 2005. Planning & designing of traditional water harvesting structures of arid region. Invited lecture delivered in three week winter school on Rainwater Harvesting: Sustainable Interventions in Rainfed Agro-Eco-System held at MPUAT, Udaipur during 7th to 26th November, 2005.
5. S.R. Bhakar. 2004. Use of GIS in agriculture. Invited lecture delivered in three week winter school on Communication Technologies and Extension Methodology held at MPUAT, Udaipur during 1st to 21st December, 2004.
6. S.R. Bhakar. 2004. Application of GIS Technology in Communication. Invited lecture delivered in three week winter school on Communication Technologies and Extension Methodology held at MPUAT, Udaipur during 1st to 21st December, 2004.

X. POPULAR ARTICLES

- 1- विरेन्द्र कुमार एवं सीताराम भाकर 2005 + बुँद बुँद सिचाई विधि की क्षमता एवं सम्भावनाएँ, राजस्थान खेती-प्रताप, मार्च 2005. p: 19-20.
2. सीताराम भाकर एवं विरेन्द्र कुमार 2009 वर्षा जल संग्रहण हेतु बनायें नाड़ी व टांका, राजस्थान खेती-प्रताप, जून 2009. p: 16-17.

1. PhD THESIS SUPERVISED

1. Reddy G.V.S. 2009. Characterization of drought under different agro-climatic zones of Karnataka. Thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, MPUAT, Udaipur.

2. Sood, Vinod Kumar 2009. Modelling of groundnut evapotranspiration under agro-climatic conditions of Anand. Thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, MPUAT, Udaipur.
3. Wadatkar, S.B. 2005. Modelling of Evaporation over Maharashtra. Thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, MPUAT, Udaipur.
4. Deora, B.S. 2005. Characterization of drought under different agro-climatic zones of Gujarat. Thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, MPUAT, Udaipur.
5. Satpute, G. U. 2004. Characterization of drought under different agro-climatic zones of Maharashtra. Thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, MPUAT, Udaipur.

2. MASTER'S THESIS SUPERVISED (Major Advisor)

1. Deepa Ashokan, 2010. Stochastic Modeling of Groundnut Evapotranspiration under climatic condition of Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
2. Geetanjali Mishra, 2009. Development of Rotational Water Allocation Plan for Rajsamand Reservoir. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
3. Nirmal Sharad Vinod, 2006. Geo-Electrical Investigations for groundwater in CTAE Watershed, Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
4. Verma, R.P. 2005. Groundwater Assessment and Planning Appropriate Strategy for its Utilization in Phyllite Hard-Rock Area at Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
5. Jadhav, K. A. 2005. Modelling of groundnut and gram evapotranspiration under climatic conditions of Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
6. Ojha, Santosh 2004. Estimation of evapotranspiration for some crops using artificial neural network. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
7. Kumar, A. 2003. Modelling of okra evapotranspiration under climatic conditions of Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
8. Pandey P.K., 2002. Modelling of black gram evapotranspiration under climatic conditions of Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
9. Kumar, D. 2001. Modelling of maize evapotranspiration under climatic conditions of Udaipur. M.E. (Ag.) thesis submitted to Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
10. Rohitashw Kumar. 1999. Evaluation of drain spacing equations and synthetic envelopes in Indira Gandhi Canal Command. M.E. (Ag.) thesis submitted to Department of Soil and Water Conservation

Engineering, College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.

11. Kote, R.C. 1997. Optimal planning for a community managed lift irrigation scheme in Banswara District. M.E. (Ag.) thesis submitted to Department of Soil and Water Conservation Engineering, College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
12. Singh, N.K. 1995. Laboratory studies for the evaluation of synthetic drain envelopes. M.E. (Ag.) thesis submitted to Department of Soil and Water Conservation Engineering, College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
13. Maruka R.N. 1993. Study of the effect of vertical drainage on water table in Chambal Command Area. M.E. (Ag.) thesis submitted to Department of Soil and Water Conservation Engineering, College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.

MASTER'S THESIS SUPERVISED (Advisor)

1. Monika Gupta, 2003. Modelling of Evaporation under Different Climatic Conditions of India. Thesis in Irrigation Water Management Engineering. Maharana Pratap University of Agriculture and Technology, Udaipur.
2. Jha, Vanita. 2002. Stochastic Modelling of Soil Moisture of Udaipur. Thesis in Irrigation Water Management Engineering. Maharana Pratap University of Agriculture and Technology, Udaipur.
3. Chandra, Subhash. 2001. Evaluation of Irrigation System Capacity of Dora Minor of Mahi Canal. M.E.(Ag.). Thesis in Irrigation Water Management Engineering. Maharana Pratap University of Agriculture and Technology, Udaipur.
4. Getachew, Seyom. 1999. Evaluation of Microirrigation System for Chilli under Arid Climatic Condition. M.E. (Ag.). Thesis in Irrigation Water Management Engineering, Rajasthan Agricultural University, Bikaner.
5. Pilare, V.R. 1997. Geostatistical Modelling of Pan Evaporation Network Over India. M.E.(Ag.) Thesis in Irrigation Water Management, Rajasthan Agricultural University, Bikaner.
6. Ayyangowdar, M.S. 1996. Spatial and Temporal Pattern of Infiltration. M.E.(Ag.) Thesis in Irrigation Water Management, Rajasthan Agricultural University, Bikaner.
7. Polisgowdar, B.S. 1996. Rainfall Modelling Under Climatic Conditions of Udaipur. M.E.(Ag.) Thesis in Irrigation Water Management, Rajasthan Agricultural University, Bikaner.
8. Sarma, Arnab. 1993. Testing of Evaporation Models Under Climatic Conditions of Udaipur Region. M.E.(Ag.) Thesis in Irrigation Water Management, Rajasthan Agricultural University, Bikaner.

3. BACHELOR'S THESIS SUPERVISED

1. Kamal, B.K. and Shivraj 2008. Determination of rainfall erosivity index for Udaipur. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
2. Singh Dilip and Vikash Sharma 2007. Performance evaluation of border irrigation system at Farmer's field. B.E. (Ag.) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
3. Devenda, M and M. Iqbal 2006. Probability analysis of rainfall at Kota. B.E. (Ag) thesis submitted to

- the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
4. Verma D. and K. Kumar. 2005. Testing of open well in hard rock area. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 5. Ranwah A. and A.K. Jhaharia. 2005. Performance evaluation of agricultural weather forecasting at Udaipur. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 6. Dhaker, K.L. and V.K. Agrawal. 2004. Characterization of drought under climatic conditions of Banswara. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 7. Nagar, M.P. and D.S. Saini. 2003. Comparison of different infiltration equations on different land covers. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 8. Gupta M and M.Z. Qureshi. 2003. Analysis of Mustard evapotranspiration. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 9. Sharma, G.P. and G.P. Singh. 2002. Modelling of soil temperature at Udaipur. B.E. (Ag) thesis submitted to the Department of Soil and Water Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur.
 10. Singh, B and R. Kumar. 1997. Evaluation of hydraulic characteristics of synthetic drain envelopes. B.E. thesis submitted to College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
 11. Srivastava N and T. Bhatanagar. 1996. Design of Anicut for southern Rajasthan. B.E. thesis submitted to College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
 12. Prasad, R. and R. Verma. 1995. Planning and design of surface drainage system in Udaipur region. B.E. thesis submitted to College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
 13. Parmar, S.K. and B.S. Tenguria, 1995. Design of Nadi for Water harvesting in Jalore district. B.E. Thesis submitted to College of Technology and Agricultural Engineering, Rajasthan Agricultural University, Bikaner.
 14. Bisnoi, B. and H.K. Solanki. 1995. Planning and design of a micro watershed in Udaipur District. B.E. Thesis submitted to College of Technology and Agricultural Engineering, Rajasthan Agricultural University, Bikaner.
 15. Abdullah K. and J. Singh. 1994. Prediction of short term evaporation. B.E. thesis submitted to College of Technology and Agricultural Engineering, Udaipur, Rajasthan Agricultural University, Bikaner.
 16. Ray H.L. and K.B. Verma. 1993. Design of Khadin for water harvesting in Western Rajasthan. B.E. Thesis submitted to College of Technology and Agricultural Engineering, Rajasthan Agricultural University, Bikaner.
 17. Tungaria, B. 1993. Design of improved Tanka for Nagaur District. B.E. thesis submitted to college of Technology and Agricultural Engineering, Rajasthan Agricultural University, Bikaner.

16. Participation in Refresher Courses / Summer institute:

S. No.	Title of course	Duration	Organizing institution
1.	Earthquake risk management for rural and urban housing	25 th Aug. 2008 to 29 Aug. 2008 (6 days)	NITTTR, Chandigarh and MPUAT Udaipur
2.	Short term course on quality assurance in technical education	1 st – 5 th Feb. 2005 (6 days)	NITTTR, Chandigarh and MPUAT Udaipur
3.	National Workshop on Hindi book writing	9-10 June, 2003	MPUAT, Udaipur
4.	Training Course on GIS and its Application	27 th Aug.– 8 th Sept. 2001 (15 days)	RRSSC, Jodhpur
5.	Winter school on Computer Multimedia Applications in Agriculture and Applied Sciences	23 Nov.-13 Dec. 1999 (21 days)	CTAE, Udaipur
6.	Summer school on Techno-economic System Analysis of Water Resources Management	21 June-3 July 1999 (15 days)	CTAE, Udaipur
7.	National Training Course on Computer Applications in Irrigation and Drainage	25 Oct. – 8 Nov., 1993 (15 days)	CSSRI, Karnal
8.	Training course on waterlogging, Drainage and Salinity control in Irrigated Agriculture	29 Jan. – 19 Feb., 1991 (21 days)	CTAE, Udaipur
9.	Training course on field drainage for the control of ground water and soil salinity in Irrigated agricultural Lands of Semi Arid Regions	11 Jan. to 6 Feb., 1988 (27 days)	CSSRI, Karnal, Haryana

17. Participation in Seminar / Conferences/ Workshops / Symposia

S. No.	Title of course	Duration	Organizing institution
1.	All India Seminar on Intelligent Motion Control of Electrical Drives	25-26 Dec. 2010	Department of Electrical Engg. CTAE, Udaipur
2.	Symposium on Natural Resources Management in Agriculture (NARMA-II)	10-11, Dece., 2010	RCA, MPUAT, Udaipur
3.	Workshop on Techno-preneur Promotion Programme	30 April 2009	CTAE, MPUAT, Udaipur
4.	43 rd ISAE Annual convention & Symposium	February 15-17, 2009	Birsa Agricultural University, Ranchi
5.	All India Seminar on Micro Irrigation for Agriculture Growth and sustainability of Natural Resources	Decembar 18-19, 2008	The Institution of Engineers (India), Andhra Pradesh State Centre, Hyderabad.
6.	National Seminar on Sustainable Ground Water Management	February 16-17, 2008	Deptt. of SWE, CTAE, Udaipur and Groundwater Deptt., GOR
7.	22 nd Indian Engineering Congress	December, 14-16, 2007	IE (India), Udaipur Local Centre
8.	Nineteenth National Convention of Agricultural Engineers & National Seminar on Role of Information technology in Hi-tech Agriculture and Horticulture	January, 27-28, 2006	IE (India), Karnataka State Centre, Bangalore
9.	40 th ISAE Convention and Symposium	January, 19-21, 2006	Agricultural Engineering College & Research Institute, Tamil Nadu Agricultural University, Coimbatore
10.	All India seminar on Reclamation of Waterlogged Saline Soils Through Drainage	December, 4-5, 2005	The Institute of Engineers (India), Kota local Centre
11.	National Seminar on Hydrological Aspects of Rejuvenation of Urban Lakes	October 20-21, 2005	NIH Roorkee and MPUAT, Udaipur

12.	39 th ISAE Convention and Symposium	March 9-11, 2005	A.N.G.R. Agricultural University, Hyderabad
13.	Workshop on Hydrological Investigations and Catchment Management for Lakes	Jan. 19-20, 2005	NIH, Roorkee and LWMRTI, Udaipur
14.	Workshop on Water Quality Monitoring and modelling	Aug. 16-17, 2004	NIH, Roorkee, Uttaranchal
15.	Workshop on Groundwater recharge and management through ASR technology	April 15-17, 2004	CCSHAU, Hisar, Haryana
16.	37 th ISAE Convention and Symposium	Jan. 29-31, 2003	MPUAT, Udaipur
17.	National Seminar on Water Management and Conservation	Dec. 27-28, 2002	WALMI, Bhopal, MP
18.	World Congress on Computers in Agriculture and Natural Resources	Sept. 19-21, 2001	ASAE at Igassu Falls, Brazil
19.	7 th National Symposium on Hydrology of arid and semi-arid regions	October 5-7, 1995	Irri. Deptt., GOR, Jaipur
20.	Water Congress, 1994	May 3-4, 1994	Kozhikode, Kerala
21.	Workshop on Irrigation Drainage and social development : Myths and Realities	Feb. 25-26, 1993	RAJAD, Kota, Rajasthan
22.	Workshop on flow measurement and measuring structures	June 21-23, 1991	WREI, Baroda, Gujarat
23.	National follow up workshop on micro computer based library information system	June, 27-29, 1990	IMTI, Trichy
24.	Workshop on preparation and use of Audio Visual Materials	Nov. 30 to Dec. 10, 1987	WALMI, Aurangabad

18. Organized Seminar / Conferences/ Workshops / Symposia / Training

S. No.	Title of course	Duration	Sponsoring institution
1.	Three Days Training Program on Participatory Irrigated Cropping System	May 4-6, 2006	RWSRP, Raj. Govt.
2.	Short Term Training on Stochastic Hydrology for Use in Agriculture	June 7-20, 2004	ISTE, AICTE, New Delhi
3.	Interactive Workshop on Resource Characterization and Socio-Economic Constraints Analysis of Productivity in the Maize Based Crop Production System	October 9-10, 2001	NATP (RNPS - 18)
4.	Concluding workshop on Resource Characterization and Socio-Economic Constraints Analysis of Productivity in the Maize Based Crop Production System	September 30, October, 1 2002	NATP (RNPS - 18)

19. Delivered guest lectures in the National / International course:

1. Design of Khadin for Western Rajasthan at Training to Para Engineers at Department of Soil and Water Engineering, MPUAT, Udaipur
2. Application of Drought management for ICAR short course on drought characterization and its management through suitable interventions in the rainfed agro-ecosystem organised by Department of Soil and Water Engineering, College of technology and Engineering, Udaipur during June 5-14, 2003.
3. Application of remote sensing and GIS for management of natural resources with special reference to rainfed area through integrated watershed management at Department of SWE, CTAE, MPUAT, Udaipur.
4. Application of Remote sensing and GIS at Department of Food Processing and Engineering , CTSE, MPUAT, Udaipur.

5. Evapotranspiration at Directorate of Extension Education, MPUAT, Udaipur

20. Contribution to University Corporate Life as:

1. Member, University Sports Board, Maharana Pratap University of Agriculture and Technology since January, 2006 (for a period of three year).
2. Member Board of Studies, Department of Soil and Water Engineering, Faculty of Engineering since May 2003.
3. Member Academic Council, Maharana Pratap University of Agriculture and Technology, Udaipur since November 2001 to November 2003.
4. Chairman, Games Council, CTAE, Udaipur, 25 Aug. to 24 Nov. 2003
5. Warden, CTAE, Hostel since 1989.
6. Member Games and Sports Council, CTAE since 1989.
7. NSS Programme Officer from 1987 to 1990 (Three years).

21. Extra Curricular Activities:

1. All India National Integration Camp on "Spread of Agricultural Technologies" as contingent leader at Konkan Krishi Vidhya Peeth, Dhapoli, Distt. Ratnagiri, Maharashtra, from Dec 2 to 9, 1988.
2. National Service Scheme Programme Training and Orientation Programme attended at BITS, Pilani, Rajasthan, from January 8 to 20, 1987.
3. National Camp on Eco Development and National Integration at Udaipur, Rajasthan, from Nov 21-30 1987.
4. Discuss throw second prize at Inter collegiate tournament 1984-85 of Sukhadia University at Udaipur.
5. Games and Sports Proficiency Certificate 1983-84 for second in hammer throw.
6. Games and Sports Proficiency Certificate 1983-84 for first award for discus throw.
7. Rajasthan State Kabbadi Championship tournament 1978-79 held at Kishangarh, Rajasthan from November 19 to 22, 1978.
8. Summer Camp attended at State Science Training Institute, Udaipur, from 13 June to 16 July 1978.
9. Rajasthan State Scout & Guide Competitive Camp Attended at Nagaur, Rajasthan from Nov. 29 to Dec 3, 1975.
10. Scout Cadet in year 1975-76 at Upper Primary School Roon, District Nagaur, Rajasthan.

S.R. Bhakar