

Profile of Prof. Anil Kumar Sahu



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6 Educational Qualifications:

S No	Exam	Year	University	Subject	%age	Division
1.	BE	1987	Allahabad, University	Civil Engineering	72.4	First
2.	ME	1989	Allahabad University	Soil Mechanics & Foundation Engg	76.0	First Hons
3.	PhD	2006	Bundelkhand University	Civil Engineering	Awarded	

7 Academic Experience:

SN	Organisation	Designation	Scale (Rs)	Duration		Assignment
				From	To	
1.	DTU(DCE), Delhi	Professor	PB 4, AGP 10000	31.03.2009	Continued	Teaching, Research, Consultancy & Allied Duties
1	DCE, Delhi	Assistant Professor	12000-18300	01.3.2004	30.3.2009	Teaching, Research, Consultancy & Allied Duties
2	CAET, Etawah(CSA UNIV Kanpur)	Associate Professor	12000-18300	31.3.2001	29.2.2004	Teaching, Research, Consultancy & Allied Duties
3	BIET, Jhansi	Senior Lecturer	10000-13500	01.4.2000	30.3.2001	Teaching, Research, Consultancy & Allied Duties
4	BIET, Jhansi	Lecturer	8000-13500	01.4.1995	31.3.2000	Teaching, Research, Consultancy & Allied Duties
5.	MNREngg College, Allahabad	Research Scholar	2850/- Consolidated	22.6.1990	01.7.1991	Teaching & Research
6.	MNREngg College, Allahabad	Project Officer	750/- Consolidated	Jan 1989	June 1989	Geotechnical Consultancy

*Field Experience- From 3.6.1994 to 31.03.1995 worked with Central Water Commission, New Delhi and from 1.01.1992 to 1.01.1994 worked as Assistant Engineer with Private organization.

8. Relevant Information:

- (A) Research Publication : IJ/ NJ=21,Conf/Seminar =39,Total=60(Annexure I)
(B) M.E. Thesis Supervised : 26
(C) B.E. Project Supervised : 40
(D) PhD Supervised : 1. Mr. Alok Verma (now Professor at DTU) on the topic entitled "Influence of Aggressive Environment on Concrete" from UPTU, Lucknow
2. Mr. Sanjeev Kumar Chaturvedi (Joint Director, NCCBM, Faridabad) on the topic entitled "Strength and Durability of Multi Blend Cement and Concrete containing Non Conforming Fly Ashes and Lower Grade Limestone" from DTU, Delhi.
3. Mr. R S Kesarwani (Consultant, Allied Engineers Delhi) on the topic entitled "Load Deformation Behaviour of Sandy soil Blended with Coarse Aggregate" from JMI, New Delhi
4. Mr Sanjeev Kumar on the topic entitled " Ground Modification using Geofiber and Geocell" submitted to I.K.G. Punjab Technical University, Kapurthala, India
(E) Membership of Professional Bodies:
Member, American Society of Civil Engineer (M-411489)
Associate Member, Institution of Engineers (AM-63307)
Member, Indian Geotechnical Society (M-2866)
Member, Institution of Civil Engineers
Member, Indian Society of Technical Education
Member, Indian Society of Rock Mechanics.& Tunneling Technology (LM-177)
Life Member, Indian Society of Construction Materials & Structure.(LM-22625)
(F) Proceeding & Resource Materials Co-Edited: 07,
(G) Consultancy Projects Undertaken: 35,
(H) Research & Development Projects:
R & D Project entitled "Engineering of Composite Clay Liners" awarded by AICTE,Delhi
(I)Conference & Seminars Organised : 06,
(J)Training/Short Term Courses Organised : 08,
(K) Subject Taught at UG & PG level : 20,
(L) Contribution Towards Laboratory Development : Purchased Equipment and Lab Manuals
(M) Contribution Towards Course Development: M Tech (GeoTech)
(N) Participation in Short Term Course: 16
(O) Participation in Conference / Seminar: 15
(P) Examinership of Prestigious Bodies: 11
(Q) Additional Responsibilities Performed: Dean, Head, Warden, Chairman of various committee, etc

ANNEXURE-I

LIST OF RESEARCH PUBLICATIONS

1. Modeling Of Macro Pores Formation With Respect To Shear Mechanism (Published In National Workshop On Ground Improvement, Nov. 11-12, 1991, CRRRI New Delhi, Pp 261-267)
2. Strength Prediction Studies On Geotextile Reinforced Alluvial Soils. (Published In National Workshop On Ground Improvement, Nov., 11-12, 1991 ,CRRRI, New Delhi, Pp-36-45).
3. Model Studies On Geotextile Reinforced Earth Retaining Wall (Published In Indian Geotechnical Conference Dec., 19-22, 1991, Surat, Pp 183-186).

4. Role Of Geosynthetics In Environmental Protection. (Published In National Conference On Cost Effective Techniques And Materials In Construction, Sept., 6-8, New Delhi, Pp 1-7).
5. Evaluation Of Soil Chemistry And Its Role In Highway Embankment Erosion-A Case Study (Published In International Conference On Implications Of Ground Chemistry /Microbiology For Construction, July, 1992, University Of Bristol, England Pp 283-292).
6. Evaluation And Applicability Of Strength Criteria For Rocks- Sand Stones And Quartzite Of Mirzapur Region, (India)- Published In Regional Symposium On Rock Slopes Organised, Dec., 7-11, 1992, ISRM, CBIP New Delhi, Pp 117-127).
7. Global Warming- An Impending Threat. (Published In International Conference On Man And Environment, Dec. 14-16, 1991, MNREC Allahabad, Pp 287-291).
- 8. Ecological Balance- Its Restoration In Highway Projects. (Published In International Research Journal Of Biological Science- Flora And Fauna- Vol. I, No.2, Dec, 1995, Jhansi, Pp 173-175).**
9. EIA - A Strategy For Quality Management Of Environment (Published In National Convention on Quality For Survival, Organised By HRD Foundation, May 14-16, 1992, New Delhi, Pp 225-229).
- 10. Model Study On Geotextile Reinforced Pavements (Published In Journal Of Indian Highway, Vol. 23 NO.9 Sept. 95 Indian Road Congress New Delhi, Pp 31-39).**
11. Urban Waste Disposal-Environmental And Geotechnical Aspects (Published In Third International Conference On Environmental Planning And Management, Feb. 24-26, 1996, VRCE Nagpur, Pp 542-544).
12. Strength And Deformation Behaviour Of Grout Jointed Indian Quartzite And Sand Stones- A Laboratory Study. (Published In Conference On Design And Construction Of Underground Structures, Feb. 23-25, 1995, New Delhi Pp 123-132).
13. Evaluation Of Weatherability Of Rocks (Published In Conference On Design And Construction Of Underground Structures, Feb 23-25, 1995, New Delhi-Pp 63-71).
14. A Review Of Techniques For Ground Improvement For Foundations Of Structures (Published In The National Seminar On High Rise Structures, Nov. 14-16, 1995, MNREC Allahabad, Pp IX-14-29).
15. Geotechnical Investigation To Assess Slope Erosion Problems At Kalinjar Fort Site (Banda, U.P.), (Published In Indian Geotechnical Conference, Dec. 17-20, 1997, Baroda, Pp 567-570).
16. Performance Of Stone Dust As A Fine Aggregate Replacing Sands In Concrete And Mortar. (Published In National Seminar On Advances In Special Concrete, Jan. 23-24, 1998, Bangalore, Pp 241-248).
17. Economics Of Fibre Concrete Machine Bases (Published In Annual Technical Session -21st A.G.M. Organised By Institution Of Engineers (India), Nov. 8-9, 1997 Lucknow, Pp. 48-49)
18. Study On Stabilization Of Soil Using Waste Products In Bundelkhand Region (Published In Indian National Conference On Geoenvironment, April 10, 1998, MNREC Allahabad, Pp 1-102 To 1-103).
19. Geotechnical Evaluation Of Oil Contaminated Soils. (Published In National Seminar On Environmental Aspects Of Engg. Practices, April 17-18, 1998 Jhansi, Pp 99-109).
20. Environmental Friendly Utilisation Of Flyash In Construction: A State Of Art" (Published In 28th ISTE Convention, PAU, Ludhiana).
21. Design Of Compacted Clay Liner Using Alluvial Soil And Industrial Waste (Published In National Seminar On Geotechnical And Environmental Aspects Of Managing Municipal Solid Waste, Oct. 29-30, 1999, Allahabad Pp III 57-65).
22. Impact Resistance Of Fiber Reinforced Concrete (Published In National Seminar On Advances In Cement And Concrete, March 10-11, 2000 Jhansi, Pp 78-89)
23. Studies On Strength And Behaviour Of Concrete By Using Stone Dust As Fine Aggregate (Published In National Seminar On Advance In Cement And Concrete, March 10-11, 2002, Jhansi Pp 38-11)
24. Effect Of Aggressive Environment On Concrete Structures (Published In National Seminar On Environmental Pollution And Water Resources Management, June 5, 1998 Institute On Of Engineers (India), Allahabad Pp 196-200)

25. Utilization Of Fly Ash And Stone Dust For Soil Stabilization Using Roth Futch's Method (Published In National Seminar On Environmental Aspects Of Engineering Practices, April 17-18, 1998 Jhansi Pp 52-58).
26. Correlation Between Free Swell Index And Swelling Pressure (Published In Indian Geo-Technical Conference Dec, 14-16,2001 Indore (M.P.) Pp 388-390).
27. Stabilization Of Black Cotton Soil Using Crusher Dust- A Waste Product Of Bundelkhand Region (Published in Indian Geotechnical Conference-2002, Dec20-22,2002, Allahabad Pp :308-310).
- 28. Crushed Stone Waste As Fine Aggregate For Concrete (Published In Indian Concrete" Journal Jan., 2003 Issue).**
29. An Experimental Investigation On Effect Of Recycled Aggregate On Concrete Properties (Published In National Conference On Advances In Civil Engg.;Perspectives Of Developing Countries. Feb 15-16,2003 Kanpur Pp 246-250).
30. Quantification Of Macropores In Granular Material Using Iam Data In 'C'Language (Published In National Conference On Advances In Civil Engg.;Perspectives Of Developing Countries. Feb 15-16,2003 Kanpur Pp 355-362).
31. A Dynamic Approach in Rain Water Harvesting for India (Published in International Conference on Water & Environment. Dec 15-18, 2003, Bhopal Pp 232-237)
32. Mathematical Modelling of Rainfall and Runoff Process for a Himalayan Watershed (Published in International Conference on Water & Environment. Dec 15-18, 2003, Bhopal Pp 232-237)
- 33 Electrokinetic Remediation of Contaminated Soils (Published in National Conference on Geotechnics in Environmental Protection April 9-10, 2005,Allahabad, Pp24-27)
- 34 Influence Of Fertilizer On Geotechnical Properties Of Soil (Published in All India Seminar on Advances in Geotechnical Engg Nov 2005, RourKela Pp 102-105)
- 35 Stabilization Of Chromium Contaminated Soil by Lime (Published in Indian Geotechnical Conference Dec 17-19,2005, Ahmedabad, Pp 257-259)
36. Influence of Aggressive Chemical Environment on High Volume Fly Ash Concrete (Published in National Seminar on Ready mix Concrete, Indian Concrete Institute, Sept 9th , 2007,Allahabad Pp II 41-46)
- 37 Application of Visual Observations in The Assessment of Sulphate Attack on Cement Based Materials (Communicated to Magazine of Concrete Research UK)**
38. Use of Superplasticizers in Concrete and Their Role in Impairing Resistance Against Sulphate Attack (Published in National Seminar on Emerging and Sustainable Techniques in Civil Engineering Oct, 18-19, 2010, Udaipur)
39. . Ettringite Formation and Its Effect on Concrete Under Sulphate Attack (Published in in National Seminar on Emerging and Sustainable Techniques in Civil Engineering Oct, 18-19, 2010, Udaipur)
- 40. Use of superplasticizers in concrete and their compatibility with cement (Published in International Journal of Civil Engineering & Technology, India, Vol. 4, Issue 1, Jan-Feb 2013,pp138-158.)**
- 41. Effect of number of classes in a visual rating for sulphate attack, (Published in International Journal of Civil Engineering & Technology, India, Vol.4, Issue 1, Jan-Feb 2013,pp165-181)**
- 42. Effect of aggressive chemical environment on setting characteristics of plain and blended cement (Published in International Journal of Structural and Civil Engineering Research, India, Vol2, No.2, May 2013,pp 77-83)**
43. Potential of fly ash as future cementing materials(International Conference on Innovative Materials & Construction, during 8-9 April 2013,Tamil Nadu, India)
- 44. Application of fuzzy logic to visual examination in the assessment of sulphate attack on cement based materials(Published in International Journal of Fuzzy Logic Systems (IJFLS) Vol.3,No.2, April 2013,pp 49-61)**
- 45. Influence of aggressive chemical environment on high volume fly ash concrete (Published in International Journal of Concrete Research Letters, Malaysia Vol.4(1)-March2013)**

46. Performance of fly ash and stone dust blended concrete in acidic environment (Published in International Journal of Concrete Research Letters, Malaysia Vol.4(1)-March2013)

47. "Emerging technologies for use of fly ash in cement concrete in aggressive chemical environment", Published in All India Seminar in Emerging Technology for Sustainable Resource Management, March 13-14 Institution of Engineers (India) Pant Nagar

48. Effect Of Lime And Stone Dust In The Geotechnical Properties Of Black Cotton Soil(published in international journal of GEOMATE, Dec,2014,Vol 7,No.2, Japan)

49. Reaction Mechanism Of Multi Blend Cementious System-A Review (published in Indian concrete journal, July 2014, Vol. 88, No. 7, pp 75-83)

50. Effect Of Geogrid Orientation Shear Strength Of Reinforced Soil (published in national conference on Strategic Perspective and Advancements in Civil Engineering, Nov 2014, Mathura India pp 106-110.)

51. Performance Characteristics of Cement Mortars based on Activated Fly Ashes (published in European journal of Scientific Research, Feb 2015, Vol. 129, No. 4, pp 360-366)

52. "CBR Value of Sandy Subgrade Blended with Coarse Aggregate", published in international journal of GEOMATE, April, 2016, Vol 10, No. 2, pp 1743-1750, Japan

53. Pullout Capacity of Modeled Footings Embedded in Poorly Graded Sand(Published in National Conference on Advances in Geotechnical Engineering, AMU India, 8th-9th April 2016, pp 217-224.)

54. Load Settlement Behaviour of Sandy Soil Blended with Coarse Aggregate, Published in international journal of Asian Scientific Research, 2015(11), pp 499-512.

55. Performance Characteristics of Cement Mortars based on Activated Fly Ash, Published in European journal of Scientific Research, Feb 2015, Vol. 129, No. 4, pp 360-366

56. Characterization and Evaluation of Fly Ash at Higher Fineness Levels, Published in European journal of Scientific Research, Dec 2015, Vol. 136, No. 4, pp 364-376

57. Numerical Study on Response of Laterally Loaded Piles in Soils, Published in imperial journal of Interdisciplinary Research, 2016, Vol 2, Issue-8 pp 1131-1140.

58. Shear Strength Behavior of Sandy Soil Blended With Coarse Aggregate, Published in Electronics Journal of Geotechnical Engineering, Vol. 21 (2016) , Bund, 09, Pp 2919-2936.

59. Effect of Skin Resistance and Enlarged Base on Pull Out Capacity of Modeled Piles, Published in Electronics Journal of Geotechnical Engineering, Vol. 21 (2016) , Bund, 23, pp 7503-7416

60. Performance of Multi Blend Cement Containing Fly Ash, Granulated Furnace Slag and Lime Stone, Published in international journal of GEOMATE, Jan, 2017, Vol 12, Issue 29, pp 2857-2862, Japan

61. A case study: sustainable development of ground water in Beganganj block of Bina river basin, Madhya Pradesh, published in international conference on 3rd Go Green Summit 2018, 24-25 Mar 2018, Manila, Philippines.

62. Influence of natural polymer on geotechnical behaviour of soil, published in international conference on smart cities with focus on environmental challenges, 10-11 April 2018, New Delhi.

63. Performance of FAL-G bricks in aggressive chemical environment, published in international conference on smart cities with focus on environmental challenges, 10-11 April 2018, New Delhi.

64. A Review on Stone Columns Used for Ground Improvement of Soft Soil, published in international conference Geotechnical Research and Engineering. Also 4th World Congress on Civil, Structural and Environmental Engineering, 7-9 April 2019, at Rome Italy.

65. Lecture note on “Ground Improvement Using Municipal Solid Waste Ash, published by Springer and indexed by Scopus in proceeding of Advances in Sustainable Construction Materials and Geotechnical Engineering.

66. Influence of Jute Fibre on CBR Value of Expansive Soil, Sanjeev Kumar, **Anil Kumar Sahu**, Sanjeev Naval, Civil Engineering Journal, Vol. 6, No. 6, June, 2020 pp 1180-1194, <http://dx.doi.org/10.28991/cej-2020-03091539>

67. Performance of Circular Footing on Expansive Soil Bed Reinforced with Geocells of Chevron Pattern” Sanjeev Kumar, **Anil Kumar Sahu**, Sanjeev Naval, Civil Engineering Journal, Vol. 5, No. 11, November, 2019, pp2333-2348, <http://dx.doi.org/10.28991/cej-2020-03091539>

68. A STUDY ON MODELLED GRANULAR COLUMN OF VARIOUS DIAMETERS IN SOIL Ankush Chaudhary, Rahul, A.K.Sahu, S.M.Abbas, LECTURE NOTES IN CIVIL ENGINEERING, selected proceeding of ICSC, pp 669-682 Vol.58,2019, pp 669-682, published by springer <http://dx.doi.org/10.1007/978-981-15-2545-2>

69. Effect of grouted granular column on the load carrying capacity of expansive soil, Pallavi Verma and A.K.Sahu, International Journal of recent technology and engineering, Vol. X, Issue X, July 2019, pp 1-7, ISSN: 2277-3878. Peer reviewed and Scopus indexed

70. Load settlement behavior footing on sand reinforced with coir geocell” Ekansh Agarwal and **Anil Kumar Sahu**, presented in 2nd ASCE India Conference on challenges of resilient and sustainable infrastructure development in emerging economics (CRSIDE 2020), March 2-4, 2020, Kolkata

71. Study on the Swelling Behaviour of Clayey Soil Blended with Geocell and Jute Fibre” Sanjeev Kumar, **Anil Kumar Sahu**, Sanjeev Naval, Civil Engineering Journal, Vol. 7, No. 8, Aug, 2021 pp 1-15, <http://dx.doi.org/10.28991/cej-2021-xxxxxxx>

72. Numerical Analysis of Railway Sub structure with Geocell- Reinforced Ballast, Amninder Singh Nayyar and **Anil Kumar Sahu**, Geomechanics and Geoengineering- An international Journal, published by Taylor and Francis, May 2021, pp1-11, <https://doi.org/10.1080/17486025.2021.1928770>

73 Slope stability and factor of safety analysis on different region of soil by using Geo Studio slope/W software, Vishal Rathore and A.K. Sahu, Journal of Geotechnical Engineering, Vol 7, Issue 3, ISSN : 2394-1987, pp 13-23

74. Load settlement response of geotextile encased granular pile in expansive soil, Amit Dabas, Devraj Rathi, Nikhil Prasad and **Anil Kumar Sahu**, International Research Journal of Engineering and Technology, Vol 08 Issue 05, May 2021, pp 965-965.

75. Simulation of solute mass flux in an earth dam, Sushant Kumar, A.K.Sahu and Munender Kumar, 3rd International Conference on advances in Engineering ,Science and Technology, during 21-22 May 2021 Organised by Uttaranchl Institute of Technology, Uttranchal University, Dehradun.

76. Modeling the effect of central impervious core and downstream filter geometry on seepage through earth dams, Sushant Kumar, **Anil Kumar Sahu** and Munendra Kumar, Ain Shams Engineering Journal, June, 2021 pp 1-11, <https://doi.org/10.1016/j.asej.2021.05.024>

77. "Heat and water flux modeling in an earth dam" Sushant Kumar, A.K.Sahu, Munendra Kumar, Water Science & Technology, June, 2021 pp 1-20, <https://doi.org/10.2166/wst.2021.241>