

CURRICULUM VITAE

Dr. R. VIJI

Assistant Professor

Department of Civil Engineering

UCE – BIT Campus, Tiruchirappalli 620 024

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➤ **Research Area:**

- Water Resources Management
- Hydrological Modelling
- Remote Sensing and GIS

➤ **Educational Qualifications:**

Qualification	College/University	Year of completion	Percentage	Class
Ph.D. (Civil Engineering)	Anna University Chennai	2016		
PG (Irrigation Water Management)	CEG, Anna University Chennai	2008	81	I
UG (Agrl.Engg.)	AEC&RI, Kumulur, TNAU, Coimbatore	2006	85	I

Experience:

Name of Company / Institutions	Designation of Post	From	To	Experience in Year
Centre for Water Resources, CEG, Anna University Chennai	Teaching Research Associate	11-08-2008	02-03-2009	0.5
UCE – BIT Campus, Tiruchirappalli	Assistant Professor	19.08.2009	Till date	14

➤ **Awards / Honours Received:**

1. Awarded the Certificate of Appreciation for producing 100% result for the Academic year 2021-2022, UCE, BIT Campus Anna University Tiruchirappalli
2. Appreciation Certificate for valuable contribution and outstanding performance as a Member of the Scientific Committee of the 3 Conference of the Arabian Journal of Geosciences (CAJG), Springer, part of Springer Nature held online, on 2–5 November 2020.
3. Awarded the Certificate of Appreciation for producing 100% result for the Academic year 2018-2019, UCE, BIT Campus Anna University Tiruchirappalli.
4. Best paper award presented the paper entitled “Environmental Impact Assessment of Prosopis Juliflora by assessing soil parameters near to its roots”, TEQIP II & CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, March 10-12, 2017.

➤ **Additional / Academic Responsibilities at University:**

S.No.	Position	Department/Center
1	Student Association Coordinator	Civil Engineering
2	IQAC Coordinator	Civil Engineering
3	Coordinator (SAP- Water Management)	UCE BIT Campus Anna University Tiruchirappalli
4	Class Advisor (2020-2024 batch TM)	Civil Engineering
5	FM lab In charge	Civil Engineering
6	Survey lab In charge	Civil Engineering
7	QIC Coordinator	Civil Engineering
8	Cultural Coordinator	Civil Engineering
9	Member Anti Ragging Committee (Woman)	Civil Engineering
10	Member Inspection Committee Affiliation	Anna University Chennai

➤ **Membership of Scientific and Professional Societies:**

1. Life member of Indian Society of Remote sensing from the date of 1st October 2016
Membership no: L-4687.

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 40 Nos
- b. Number of UG Project Completed: 50 batches

➤ **Research Guidance (M.S/Ph.D.) (Ongoing):**

Sl. No	Name of the scholar	Tentative Title of the thesis	Year of registration	Status
1.	Erosemiah D	Reservoir operation policy on development of multipurpose resource project in Thamirabarani River basin by using RS and GIS	Jan 2019	Confirmation completed
2.	Selvabharathi V	Hydrological modeling with soil and water conservation techniques in Cauvery river basin by using remote sensing and GIS	Jan 2019	Confirmation completed
3.	Samuel Prabakaran J	GIS and Remote Sensing applications in the ground water potential modeling	July 2019	Confirmation completed
4.	Ajitha T T	Analysis and design of water distribution network in Athivilai village of TamilNadu India	Jan 2020	Confirmation completed

• **PUBLICATIONS:**

1. D. Erosemiah and R. Viji, Study on Drainage Network Pattern and Morphometric Analysis by Using Hydrology Support Algorithm, *Jour. Geol. Soc. India* (2023) 99:1006-1014.
2. Jenefa, C., & Viji, R. (2023). Ground Water Quality Assessment of Lalgudi Block, Tiruchirappalli District by Using Gis India. *J Environ Pollut Control*, 6(1), 101.
3. EvanyNithya, S., JenoBlessy & Viji, R. (2021). Flood Vulnerability Mapping using Frequency Ratio Model and Dempster Shafer Theory: A Case Study on Devikulam and Udumbancholataluks of Idukki district, Kerala, India, *Indian Journal of Ecology*, 48(4), 982-989.
4. Samuel Prabakaran, J., & Viji, R. (2020). Evaluation of Groundwater Quality Using Remote Sensing and GIS Techniques in Tirunelveli District, India, *Journal of Xidian University*, 14(4), 3624 – 3630.
5. Indhirajith, B., Sangeetha, M., & Viji. R. (2020). Study on Removal of Oil in Seawater using Agricultural Waste Ashes. *Comprehensive Advanced Specific Summarized Studies*, 04(1), 11-19. Addendum 02.
6. PavithraBai, N., & Viji, R. (2019). Environmental Impact Assessment of Tire Industry Effluent on Water & Soil Quality in Perambalur District, *International Journal of Engineering Research & Technology (IJERT)*, 7(2), 2019.
7. Erosemiah, D., Sakthieswaran, N., & Viji, R. (2019). Microstructural Analysis of A Reactive Powder Concrete at Elevated Temperature, *International Journal of Engineering Research & Technology (IJERT)*, 7(2), 2019.
8. Rajkumar, R., & Viji, R. (2019). Runoff Depth Estimation using RS & GIS - NRCS-CN Method, *International Journal of Engineering Research & Technology (IJERT)*, 7(2), 2019.
9. Aravind Vasudevan., & Viji, R. (2019). Feasibility Study on Chemical Recovery of Polymeric Waste Products and its Impacts on the Environment, *International Journal of Engineering Research & Technology (IJERT)*, 7(2), 2019.
10. Pradeep, K., & Viji, R. (2019). Effect Of Silica Fume Ash And GRF On The Strength And Durability Properties Of Concrete, *International Research Journal of Engineering and Technology (IRJET)*, 6(2), 1559 – 1561.
11. EvanyNithya S., Sabeek Mohamed., & Viji R. (2018). Removal of Chromium(VI) from Aqueous Solution using AzollaCarolinia as Adsorbent, *Indian Journal of Ecology*, 2(45).

12. Vasanthakumar, N., Viji. R., & EvanyNithya, S. (2017). Environmental impact assessment of *Prosopisjulifloraby* assessing soil parameters, *Eco. Env. & Cons*, 23, S5-S9.
13. Viji, R., & Dr. Rajesh Prasanna, P. (2017). Assessment of Soil Erodibility by using Geographic Information System, *Asian Journal of Research in Social Sciences and Humanities*, 7(1), 483-491. ISSN 2249-7315.
14. Sheik Mohammed Shibl, A., Viji, R., & Dharaniraj. B. (2016). Abattoir wastewater treatment using *Cicerarentinum* seed powder as natural coagulant, *Journal of Chemical and Pharmaceutical Sciences*, 9(4), 2610-2612. ISSN: 0974-2115.
15. Gayathri, K.S., & Viji, R. (2016). Removal of colour from paper mill waste water using neem leaf powder, *International Journal of Applied Engineering Research*, 11(3), 7-13. ISSN 0973-4562.
16. Rajalakshmi, S M., & Viji, R. (2016). Surface water quality assessment using multivariate statistical technique, *Indian journal of Environmental protection*, 36(3), 199-205.
17. Silambarasan, M., & Viji, R. (2015). Batch study on removal of organic pollutant from land leachate by Zinc Oxide, *Indian journal of Environmental protection*, 35(11), 906-910.
18. Viji, R., Dr.RajeshPrasanna, P., & Dr.Ilangovan, R. (2015). Modified SCS-CN and Green-Ampt Methods in Surface Runoff Modelling for the Kundahpallam Watershed, Nilgiris, Western Ghats, India. *Aquatic Procedia*, 4, 677 – 684.
19. Viji, R., Rajesh Prasanna, P., & Ilangovan, R. (2015). GIS Based SCS - CN Method For Estimating Runoff In Kundahpalam Watershed, Nilgries District, Tamilnadu, *Eart Sci. Res. J.* 19(1), 59- 64.
20. Viji, R., Ilangovan, R., & Rajesh Prasanna, P. (2015). Green-Ampt runoff model for the ungauged Kundahpallam watershed, Nilgiris, Western Ghats of India, *International Journal of Applied Engineering Research*, 10(51), 35-45. ISSN 0973-4562.
21. Viji, R., & Dr. RajeshPrasanna, P. (2012). Assessment of water holding capacity of major soil series of Lalgudi, Trichy, *Journal of Environmental Research & Development*, 7(1A), 393 – 398. ISSN – 0973-6921.

➤ **Sponsored Research Projects:**

1. TNSCST sponsored student project scheme titled “Characteristics study on tiles by partially replacing cement as fly ash” Lr.No.TNSCST/SPS/AR/2021-2022 dated 11.03.2022, Value Rs. 7500.
2. TNSCST sponsored student project scheme titled “Assessing the Distribution and Impacts of *Prosopis Juliflora* by Using GIS in Tirupur District” Lr.No.TNSCST/SPS/AR/2019-2020 Dated 20.03.2020, Rs: 7500.
3. CTDT sponsored student innovative project entitled “Study on Removal of Oil in Seawater using Agricultural Waste Ashes”, proceeding no: P-1819S4334/CTDT date:8.05.19 Rs. 25000 July 2019 to December 2019
4. CTDT sponsored student innovative project entitled “Environmental Impact Assessment on Vaigai River Basin in Madurai City”, proceeding no: P-1819S4391/CTDT date:8.05.19. Rs.25000
5. TNSCST sponsored student project scheme titled “Feasibility Study on Chemical recovery of Polymeric Waste products and its impacts on the Environment”, TNSCST/SPS/AR/2018-2019, V, Rs.7500
6. TNSCST sponsored student project scheme titled “Environmental impact assessment of *Prosopis juliflora* by assessing soil parameters”. Ref. TNSCST/SPS/AR/2016-2017. Rs. 10000
7. TEQIP II sponsored student project scheme titled “Bus shelter by using inverted hyperbolic parabolic roof shell structure”. Lr.No:BIT/Dean/TEQIP/2014-081 Dated 10.3.2015, Rs.10000
8. TEQIP II sponsored student project scheme titled “Study on performance characteristics of partial replacement of cement by Egg shell powder”. Lr.No:BIT/Dean/TEQIP/2014-081 Dated 10.3.2015, Rs.10000

• **List of Seminar / Short Term Course /FDP/ Workshop organized:**

• **WORKSHOP ORGANIZED**

1. One-day workshop organized on Sustainable Agriculture and its impact on Environment, Department of Civil and Chemistry, held at BIT campus, Anna University Tiruchirappalli on 3rd Oct 2019.

2. Anna University BIT campus sponsored one day workshop on “ Environmental Policies and Legislation” on 22.03.2018, Department of Civil Engineering, BIT campus Tiruchirappalli.
3. Anna University BIT campus sponsored one day workshop on “ Remote Sensing and GIS applications in Civil Engineering” on 20.03.2018, Department of Civil Engineering, BIT campus Tiruchirappalli.
4. TEQIP II sponsored two days workshop on Applications of GIS in Civil Engineering (AGCE’13) from 07.10.13 and 08.10.13

• **SEMINAR ORGANIZED**

1. Online live webinar Series 4 on “Software Application in Structural Design" on 09.08.2020 Department of Civil Engineering, University College of Engineering, BIT Campus, Tiruchirappalli
2. National Seminar sponsored by TEQIP II Anna University, BIT campus from 23.08.2016 to 24.08.2016 (2 Days) on “Advanced Design and Construction Techniques in Civil Engineering (ADCTCE’16)”

• **FDP ORGANIZED**

1. One Week Short Term Training Programme (STTP) On Disaster Risk Management (Phase I - Online) Sponsored by All India Council for Technical Education, New Delhi Organized by Department of Civil Engineering Anna University, UCE- BIT Campus Tiruchirappalli, Tamilnadu, India, 29.11.2021 To 04.12.2021.
2. One Week Short Term Training Programme (STTP) On Disaster Risk Management (Phase III - Online) Sponsored by All India Council for Technical Education, New Delhi Organized by Department of Civil Engineering Anna University, UCE- Bit Campus Tiruchirappalli, Tamilnadu, India, 13.12.2021 To 18.12.2021
3. One Week Online Faculty Development Programme on “Remote Sensing and GIS Applications in Sustainable Environmental Management” from 10.08.2020 to 14.08.2020, Department of Civil Engineering, University College of Engineering, BIT Campus, Tiruchirappalli

• **COORDINATOR CULTURAL FEST**

1. Event coordinator for drawing and fine arts, in Annual cultural fest FIESTA’ 2020, “Festivity of Talents” held at UCE, BIT campus, Anna university, Tiruchirappalli.

2. Event coordinator for Civil Engineering Department in Annual cultural fest FIESTA' 2022, "Festivity of Talents" held at UCE, BIT campus, Anna university, Tiruchirappalli

- **INDUCTION PROGRAMME**

1. Organized two weeks induction programme for I year Civil Engineering students from 14.11.2022 to 26.11.2022, Department of Civil Engineering, University College of Engineering, BIT Campus, Tiruchirappalli

- **List of Seminar / Short Term Course /FDP/ Workshop attended:**

SEMINAR PRESENTATION AND PARTICIPATION

1. One day PoSH awareness programme held on 10th February 2023 at UCE, BIT campus, Anna University Tiruchirappalli.
2. Terzaghi memorial seminar on Dynamics of soils and foundations, organised by Indian Geotechnical Society, Trichy Chapter in association with Department of Civil Engineering, National Institute of Technology, Tiruchirappalli on 14th October 2017.
3. TEQIP sponsored national seminar on research paper, dissertation and project proposal preparation, BIT, Anna University, 14th Feb 2014.
4. Regaraj & viji, Development of infiltration modelling for Pachamalai in Tiruchirappalli, National seminar on Geoinformatics in Land and Water Resources Studies, 1-2 Mar 2013.
5. R. Viji, national seminar on strategic teaching quality management for technical teachers, 16 mar, Anna University trichy.
6. Prethive raj & viji, Design and layout of waste water disposal in Suriyur village in Tiruchirappalli, National seminar on Geoinformatics in Land and Water Resources Studies, Mar 2013.
7. M.Saravanan & viji, Design of Arch Buttress Check Dam, National seminar on Geoinformatics in Land and Water Resources Studies, Mar 2013.
8. Mrs.R.Viji and Dr.P.Rajesh Prasanna Environmental life implications of Ethanol Production from sugarcane, National seminar on Spatial Strategies for sustainable Management, Department of Environmental Management ,Bharathidasan University, Trichy , Feb 2011.
9. National seminar on Research Methodology, Centre for Research, Anna University, Tiruchirappalli, Sep 2011.

WORKSHOP PARTICIPATION

1. Workshop on “Hands on training on software Applications in Civil Engineering” organized by Department of Civil Engineering, BIT campus, Tiruchirappalli on 21st Mar 2018.
2. National workshop on Intelligent Systems Engineering during 27-28 July 2017 organised by National Institute of Technology, Tiruchirappalli.
3. National workshop on Water Resources System Modelling held on 9th and 10th march 2017 supported by UGC – Centre of Advances Study-I and Department of Civil Engineering, College of Engineering Guindy, Organised by the Centre for Water Resources, Anna University, Chennai.
4. Strategic planning, Anna university, BIT, Trichy, Mar 2013.
5. NRDMS-DST sponsored National level workshop on Geospatial Technology, Department of Civil Engineering, Jayam College of Engineering & Technology, Dharmapuri, from 28-30 June 2012.
6. Challenges ahead in the GW sector of TN, Central GW board, Chennai, 9th Feb 2011.
7. Spatial Techniques for Environmental sustainability, Department of Environmental Management, Bharathidasan University, Trichy, Feb 17-18, 2011.
8. Indo us workshop on forensic Engineering, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli & the Department of Civil and Environmental Engineering, University of North Carolina at Charlotte, USA, from 15-17 Dec 2010.

AICTE SPONSORED TWO WEEKS FACULTY DEVELOPMENT PROGRAMME PARTICIPATION

1. Two weeks (40 hrs) online FDP on “Data Science for All” jointly organized by electronics and ICT Academies, NIT Warangal, IITDM Jabalpur and NIT Patna supported by the Ministry of Electronics and Information Technology, Govt. of India during 27 July to 8 August 2020.
2. AICTE - QIP sponsored One Week Faculty Development Programme on “Principles of Corrosion and Corrosion Prevention in Engineering Industries” during the period from 27.11.17 to 03.12.17 under QIP, Organised by dept. of civil Engineering, Alagappa College of Engineering, Karaikudi.
3. Developing Pedagogical Skills for Teachers through Active Learning Techniques

Organized by Dept. of Management Studies, M.A.M. College of Engineering from 10.06.13 to 22.06.13

TEQIP II sponsored Two weeks faculty development programme participation

1. Two weeks FDP on “CE8491-Soil Mechanics” at Muthayammal College of Engg., Rasipuram from 03.12.2018 to 14.12.2018.
2. Enhancing class room communication Organised by dept. of English, BIT campus, Tiruchirappalli
Duration: 18.07.16 to 31.07.16
3. Prefabricated Structures Organised by dept. Of civil Engineering, BIT campus, Tiruchirappalli
Duration: 04.06.16 to 17.06.16

ONE WEEK FACULTY DEVELOPMENT PROGRAMME PARTICIPATION

1. AICTE sponsored 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 14th March, 2022 to 18th March, 2022.
2. One week FDP on “Python Programming with Industry Perspective” jointly organized by electronics and ICT Academies held from Dec 2- 6, 2019 through National Knowledge Network under “the Scheme of financial assistance for setting up of electronics and ICT Academies” by the Ministry of Electronics and information Technology (MeitY), Government of India. Programme is endorsed by AICTE/UGC/NBA.
3. Six-day faculty development training programme on “CE8302 Fluid Mechanics” conducted by the Department of Civil Engineering at Department of Civil Engineering, BIT campus, Trichirappalli from 24.06.2019 to 29.06.2019.
4. TEQIP II sponsored one week faculty development programme Role of Renewable Energy in Indian power sector Organised by dept. of Electrical and Electronics Engineering, BIT campus, Tiruchirappalli Duration: 21.09.15 to 27.09.15
5. TEQIP II sponsored one week faculty development programme Application of GIS and Remote sensing” from 24. 04 2015 to 30.04.2015 organized by department of Civil Engineering, BIT campus, Tiruchirappalli.
6. TEQIP II sponsored one week faculty development programme Advanced software application in civil engineering Organised by dept. Of civil Engineering, BIT campus, Tiruchirappalli
Duration: 12.12.13 to 18.12.13

7. TEQIP II sponsored one week faculty development programme Advances in Building Technology Organised by dept. Of civil Engineering, BIT campus, Tiruchirappalli Duration: 19.08.13 to 25.08.13

ONLINE MODULES OF MOOCS IN SWAYAM AS PER THE AICTE TEACHER TRAINING POLICY [CONDUCTED BY NITTTR]

1. Module 6 - Student Assessment and Evaluation of National Initiative for Technical Teachers Training, Feb 2023.
2. Module 7 - Creative Problem Solving, Innovation and Meaningful R and D of National Initiative for Technical Teachers Training, Feb 2023.
3. Module 8 - Institutional Management and Administrative Procedure of National Initiative for Technical Teachers Training, Feb 2023.
4. Ministry of HRD, Government of India sponsored MOOCs Mode (12 weeks course) Faculty Development Programme on “Geographic Information System”, NPTEL-AICTE, IIT Roorkee from 23.01.2023 to 14.04.2023.
5. Ministry of HRD, Government of India sponsored MOOCs Mode (12 weeks course) Faculty Development Programme on “Remote Sensing: Principles and Applications”, NPTEL-AICTE, IIT Bombay from 23.01.2023 to 14.04.2023.
6. Ministry of HRD, Government of India sponsored MOOCs Mode (12 weeks course) Faculty Development Programme on “Municipal Solid Waste Management”, NPTEL-AICTE, IIT Guwahati from 25.07.2022 to 14.10.2022.
7. Ministry of HRD, Government of India sponsored MOOCs Mode (8 weeks course) Faculty Development Programme on “Remote Sensing and GIS”, NPTEL-AICTE, IIT Guwahati from 25.07.2022 to 16.09.2022.
8. Ministry of HRD, Government of India sponsored MOOCs Mode (8 weeks course) Faculty Development Programme on “Environment and development”, NPTEL-AICTE, IIT Guwahati from 25.07.2022 to 16.09.2022.
9. Ministry of HRD, Government of India sponsored MOOCs Mode (8 weeks course) Faculty Development Programme on “Natural Hazards”, NPTEL-AICTE, IIT Kanpur from 18.01.2021 to 12.03.2021.

INDUSTRIAL TRAINING

1. Three weeks industrial training on “Telecom Tower Construction” at BSNL, Tiruchirappalli, from 08.06.2020 to 26.06.2020, organized by Rajiv Gandhi memorial telecom training centre, Bharat Sanchar Nigam Limited (A Govt. of India Enterprise), Meenambakkam, Chennai.

➤ NATIONAL / INTERNATIONAL CONFERENCES ORGANIZED / PARTICIPATED:

• CONFERENCE_ORGANIZED

1. A National conference on Recent Trends in Civil and Environmental Engineering, Anna University, Tiruchirappalli, Apr 2013.

• PAPERS PRESENTED IN INTERNATIONAL CONFERENCES

1. Jenefa C, R. Viji, analysis of ground water contamination for permeable soil in Lalgudi taluk, Tiruchirappalli District”, 3rd international conference on innovations in thermal, manufacturing, structural and Environmental Engineering, organized by department of Mechanical and Civil engineering, Kongunadu College of Engineering and technology Trichy from 22.04.2022 to 23.04.2022.
2. Jenefa C, R. Viji, “Review On Ground Water Contamination for Permeable Soil in Lalgudi Taluk, Tiruchirappalli District”, two days international conference on multi disciplinary research in science, Technology and humanities on 22-23 December 2021, organized by department of applied science, sage university, Indore.
3. B.Indhirajith, R .Viji, Environmental Impact Assessment On Deforestation By Using Remote Sensing And GIS, Online Live (Virtual) National Conference on Recent Trends in Civil and Environmental Engineering (NCRTCEE’20) organized by Department of Civil Engineering, University College of Engineering - BIT Campus, Tiruchirappalli on 26.08.2020.
4. B.Indhirajith , M.Sangeetha , R.Viji, Study on Removal of oil in seawater using Agricultural Ashes, international conference on modern Engineering, Science & Technology, organized by Dr.Kalam Institute of Engineering Research, Chennai, 17th February, 2020, Ooty, TN, India
5. Er. K. Pradeep, R. Viji, Experimental Investigation on strength of concrete by partial replacement of fine Aggregate by copper slag and quarry dust, DST – SERB sponsored international conference on Innovations in science, Engineering and Technology for sustainable

Development, Muthayammal Engineering college, Rasipuram held on 30.03.2018 and 31.03.2018.

6. N. Pavithra Bai, Dr. R. Viji, Environmental Impact Assessment of Tire Industry Effluent on Water & Soil Quality in Perambalur District, International conference on recent trends in Nano material for energy, environmental and engineering applications, organised by department of Civil, Mechanical, science and human technology, K Ramakrishnan College of technology, during march 14 -15 2019.
7. D. Erosemiah, Dr. N. Sakthieswaran, Dr. R. Viji, Microstructural Analysis of A Reactive Powder Concrete at Elevated Temperature, International conference on recent trends in Nano material for energy, environmental and engineering applications, organised by department of Civil, Mechanical, science and human technology, K Ramakrishnan College of technology, during march 14 -15 2019.
8. R. Rajkumar, Dr. R. Viji, Runoff Depth Estimation using RS & GIS - NRCS-CN Method, International conference on recent trends in Nano material for energy, environmental and engineering applications, organized by department of Civil, Mechanical, science and human technology, K Ramakrishnan College of technology, during march 14 -15 2019.
9. Aravind Vasudevan, Dr. R. Viji, Feasibility Study on Chemical Recovery of Polymeric Waste Products and its Impacts on the Environment, International conference on recent trends in Nano material for energy, environmental and engineering applications, organized by department of Civil, Mechanical, science and human technology, K Ramakrishnan College of technology, during march 14 -15 2019.
10. Vinothini.V and Viji.R (2018), "Modelling of Erosion And Sediment Yield Of Cauvery Basin With EPM, Using GIS", International conference on energy, environment and industrial safety organized by Department of Applied Science and Technology, A.C.Tech, Anna University, Chennai, during February 22-23, 2018. ISBN no: 978-93-5291-459-3
11. Nandhini.K and Viji.R (2018), "Management Of Non-Biodegradable Material By Using Microbes In Clay Soil", International conference on energy, environment and industrial safety organized by Department of Applied Science and Technology, A.C.Tech, Anna University, Chennai, during February 22-23, 2018. ISBN no: 978-93-5291-459-3

12. Jamuna.V and R.Viji (2018), “Flood Hazard And Risk Assessment In Thanjavur District Using Remote Sensing And GIS Techniques”, International conference on energy, environment and industrial safety organized by Department of Applied Science and Technology, A.C.Tech, Anna University, Chennai, during February 22-23, 2018. ISBN no: 978-93-5291-459-3
13. Saranya P and Viji R (2018), “Experimental investigation on strength of concrete by partial replacement of fine Aggregate by copper slag and quarry dust”, international conference on recent trends in Mechanical and Civil Engineering, organized by department of Mechanical and Civil Engineering, during April 4th 2018.
14. K.Bhuvaneshvaran and R. Viji, Urban forestry – An emerging Air pollution mitigation method, TEQIP II and CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, pp 292-295 March 10-12, 2017, ISBN- 978-81-933-6304-9.
15. N. Vasanthakumar and R. Viji, Environmental impact assessment of *Prosopis juliflora* by assessing soil parameters near to its roots, TEQIP II and CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, pp 336-339 292-295 March 10-12, 2017, ISBN- 978-81-933-6304-9.
16. A. Noyala Nobil mary and R. Viji, Assessment of ground water quality using water quality index in the Agricultural areas of Thanjavur District, TEQIP II and CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, pp 410-412 March 10-12, 2017, ISBN- 978-81-933-6304-9.
17. K. Roja and R. Viji, An experimental behaviour of fibre reinforced concrete beams strengthened with externally bonded GFRP laminates, TEQIP II and CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, pp 389-392 March 10-12, 2017, ISBN- 978-81-933-6304-9.
18. N. Karthik and R. Viji, Experimental studies on the behaviour of reinforced concrete column with welded wire mesh under axial load, TEQIP II and CSIR sponsored international conference on Energy and Environmental Systems, organized by Department of Mechanical Engineering and Civil Engineering, pp 393-395 March 10-12, 2017, ISBN- 978-81-933-6304-9.

19. B. Dharaniraj and R. Viji, Feasibility study on adsorbents for the removal of toxic metal pollutants from textile waste water, International conference on Advanced Engineering and Technology for sustainable development, organised by the Karpagam college of Engineering, Coimbatore, Feb 19 and 20, 2016, Vol. no. 4, pp. 1-7.
20. Sheik Mohammed Shibel and R. Viji, slaughter house waste water treatment using Azadichta Indica seed powder as natural coagulant, International conference on Advanced Engineering and Technology for sustainable development, organised by the Karpagam college of Engineering, Coimbatore, Feb 19 and 20, 2016, Vol. no. 4, pp. 97-100.
21. V. Priya and R. Viji, Assessment of impact of tourism development on water quality in Kolli hills by using GIS, International conference on Advanced Engineering and Technology for sustainable development, organised by the Karpagam college of Engineering, Coimbatore, Feb 19 and 20, 2016, Vol. no. 4, pp. 101-109.
22. M. Silambarasan and R. Viji, batch study on removal of organic pollutant from landfill leachate by Zinc Oxide, International conference on soft computing techniques in structural and environmental engineering, 20th Mar 2015, Anna university, Dindigul.
23. Mrs.R.Viji, Dr.P.Rajesh Prasanna and Dr.R. Ilangovan, Modified SCS-CN and Green-Ampt Methods in Surface Runoff Modelling for the Kundahpallam Watershed, Nilgiris, Western Ghats, India. International Conference on Water Resources, Coastal and Ocean Engineering, 12th–14th MARCH, 2015, NIT, Suratkal, Karnataka, doi: 10.1016/j.aqpro.2015.02.087.
24. Mrs.R.Viji, Dr.R. Ilangovan and Dr.P.Rajesh Prasanna, Green-Ampt unoff model for the ungauged Kundahpallam watershed, Nilgiris, Western Ghats of india, International Conference On Advances In Materials And Mechanical Engineering, 8th and 9th May 2015, ISBN No 9789384893231, EGS Pillay Engineering college, Nagapatinum.
25. K.S. Gayathri and R. Viji, Removal of colour from pulp and paper mill waste water using a bio adsorbent – Neem leaf powder – review, TEQIP II International Conference On Environmental Geotechniques, BIT, Trichy 30.10.2014 and 31.10.2014. PP 320-324.
26. S.M. Rajalakshmi and R. Viji, Assessment of surface water quality using multivariate statistical technique at Cavery river basin in TamilNadu- review, TEQIP II International Conference on Environmental Geotechniques, BIT, Trichy 30.10.2014 and 31.10.2014. PP 281-286.

27. M. Silambarasan and R. Viji, Solar photo catalytic leachate treatment by using Zinc Oxide – an overview, TEQIP II International Conference on Environmental Geotechniques, BIT, Trichy 30.10.2014 and 31.10.2014. PP 138-142.
28. Mrs.R.Viji and Dr.P.Rajesh Prasanna, modified SCS-CN method in surface runoff modelling for the Kundapallam watershed, Nilgries, Western Ghats, India. TEQIP II International Conference on Environmental Geo-techniques, BIT, Trichy 30.10.2014 and 31.10.2014. PP 213-222.
29. Mrs.R.Viji and Dr.P.Rajesh Prasanna, Surface Runoff Modelling for The Kundahpallam Watershed, Nilgiris, Western Ghats Of India, international conference on Green Technology for Environmental Pollution Prevention and Control, NITT, pp 109-110 Trichy 27th - 29th Sep 2014.
30. Mrs.R.Viji and Dr.P.Rajesh Prasanna, Generation of curve number for Runoff modeling using Rs & GIS, international conference on Climate Change, territorial classification & Socio economic crises, Centre for remote sensing & department of Economics, Bharathidasan University, Trichy, April 20-23, 2013.pp 96, ISBN 978-93-81899-32-8.
31. Jeya sheeba T. S. and Viji R., Effect of Thermal Pre-treatment on Dairy Sludge for the Production of Biogas by Anaerobic Biodegradability Assay Method, international conference on Advances in biotechnology and Patenting, Department of Biotechnology & Chemistry Bharathidasan University, Trichy, pp 39, Feb 2013.
32. Mrs.R.Viji and Dr.P.Rajesh Prasanna, Rainfall Runoff modelling using satellite data and GIS for Kundapallam watershed in Nilgiris District, TamilNadu, International conference on Disaster management and mitigation, organised by department of Civil Engineering, PSNA college of Engineering and Technology, Dindig ul, 16-18 December 2009, pp 657-669

• **PAPERS PRESENTED IN NATIONAL CONFERENCES**

1. M.Sangeetha, R.Viji, “Assessing The Distribution And Impact Of Prosopis Juliflora By Using GIS In Tirupur District”, online live (virtual) national conference on Recent Trends in Civil and Environmental Engineering, organized by Department of Civil Engineering, UCE, BIT campus Anna University Tiruchirappalli on 26th August 2020.
2. B.Indhirajith, R.Viji, Environmental Impact Assessment of Deforestation by using remote sensing and GIS, online live (virtual) national conference on Recent Trends in Civil and

Environmental Engineering, organized by Department of Civil Engineering, UCE, BIT campus Anna University Tiruchirappalli on 26th August 2020.

3. B.Indhirajith, R.Viji, "Soil Erosion Mapping For Tiruchirapalli District By Using Remote Sensing and GIS", Second Series of National Conference, organised by Dhanalakshmi Srinivasan Engineering College, Perambalur, TamilNadu on 13th and 14th March 2020.
4. K.Bhuvaneshvaran and R. Viji, Air pollution removal by Urban forestry, TEQIP II sponsored two days national conference on recent trends in Civil engineering and Environmental engineering, organized by Department of Civil Engineering, pp 07-12 August 30&31, 2016.
5. A. Noyala Nobil mary and R. Viji, comparative study of the effect of chemical fertilizer and organic fertilizer on Eiseniafoetida, TEQIP II sponsored two days national conference on recent trends in Civil engineering and Environmental engineering, organized by Department of Civil Engineering, pp 75-81 August 30&31, 2016.
6. N. Vasanthakumar and R. Viji, Environmental impact assessment of *Prosopis juliflora* by assessing soil parameters, TEQIP II sponsored two days national conference on recent trends in Civil engineering and Environmental engineering, organized by Department of Civil Engineering, pp 119-122 August 30&31, 2016.
7. N. Karthik and R. Viji, Experimental study on corrosion prevention in reinforced concrete – A literature review, TEQIP II sponsored two days national conference on recent trends in Civil engineering and Environmental engineering, organized by Department of Civil Engineering, pp 248-254 August 30&31, 2016.
8. S.M. Rajalakshmi and R. Viji, Assessment of surface water quality using multivariate statistical technique at Kallanai distributaries at Thanjavur district, national conference on recent advancement in geotechnical engineering, Apr 17th 2015, GCT, Coimbatore, ISBN: 13 978-81-931273-9-1.
9. K.S. Gayathri and R. Viji, Removal of color from paper mill waste water using a bio adsorbent, national conference on recent advancement in geotechnical engineering, Apr 17th 2015, GCT, Coimbatore, ISBN: 13 978-81-931273-9-1.
10. Mohanasankari & viji, partial replacement of fine aggregate by using red soil in concrete National conference on Recent Trends in Civil & Environmental Engineering, Anna University, Tiruchirappalli, 19th Apr 2013.

11. Ganesan & viji, structural behavior of steel fibre reinforced concrete using flyash, National conferecnce on Recent Trends in Civil & Environmental Engineering, Anna University, Tiruchirappalli, 19th Apr 2013.
12. Sankaran satheesh& viji, partial replacement of fine aggregate by using red soil and flyash in concrete, National conferecnce on Recent Trends in Civil & Environmental Engineering, Anna University, Tiruchirappalli, 19th Apr 2013.
13. Sathik Ibrahim& viji, experimental study on the behaviour of semi grid connections, National conferecnce on Recent Trends in Civil & Environmental Engineering, Anna University, Tiruchirappalli, 19th Apr 2013.
14. Mrs.R.Viji and Dr.P.Rajesh Prasanna, Environmental life implications of Ethanol Product ion from sugarcane, National conference on Recent Trends in Civil & Mechanical Engineering, Department of Civil & Mechanical Engineering, Anna University, Tiruchirappalli, Apr 8&9 2011.
15. Mrs.R.Viji and Dr.P.Rajesh Prasanna, Assessment of water holding capacity of major soil series of lalgudi Taluk, Trichy, National conference on Advances in mechanical sciences, Department of Mechanical Engineering , C.Abdul Hakeem College of Engg & Tech., Vellore, Mar 5, 2011.
16. R.Rajeswari & Viji, Comparison of mix design code IS - 10262:2009 with IS 10262:1982, National conference on Engineering approach for sustainable Development, Anna University, Tiruchirappalli, 27th Oct 2011.
17. M.T.tambiraja & viji ,Economics of Industrial Steel Structures by using revised code – Review, National conference on Engineering approach for sustainable Development, Anna University, Tiruchirappalli, 27th Oct 2011.
18. R.Tamilalagan & viji, Studies on behaviour of RCC Structural clement using basalt composite Rebar's, National conference on Engineering approach for sustainable Development, Anna University, Tiruchirappalli, 27th Oct 2011.
19. N.Shanthi & viji, Study on self compacting concrete with Recron fibers, National conference on Engineering approach for sustainable Development, Anna University, Tiruchirappalli, 27th Oct 2011.

20. Rajeshwari & viji, Assessing the impact of Climate change on water Resources, National conference on Recent Trends in Civil & Mechanical Engineering, Anna University, Tiruchirappalli, 8th and 9th Apr 2011.
21. Sivakumar & viji, Subsurface Drip Irrigation as a Water Saving technology for Vegetable crops, National conference on Recent Trends in Civil & Mechanical Engineering, Anna University, Tiruchirappalli, 8th and 9th Apr 2011.

➤ **PROFESSIONAL RECOGNITIONS:** (details like chairperson/member of a committee, reviewer, editor ...etc)

1. Member Inspection Committee Affiliation, Anna University Chennai.
2. Member quality inspection committee, Tamil Nadu Housing Board, Trichy.
3. Member of the Scientific Committee of the 3rd Conference of the Arabian Journal of Geosciences (CAJG), Springer, part of Springer Nature held online, on 2–5 November 2020.
4. Member scrutiny committee TEQIP II sponsored student innovative project scheme.
5. Member Anti Ragging Committee (Woman) Civil Engineering Department, UCE BIT Campus Anna University Tiruchirappalli
6. IQAC Coordinator, Civil Engineering Department, UCE BIT Campus Anna University Tiruchirappalli
7. Coordinator (SAP- Water Management), UCE BIT Campus Anna University Tiruchirappalli
8. QIC Coordinator Civil Engineering Department, UCE BIT Campus Anna University Tiruchirappalli

➤ **GUEST LECTURERS DELIVERED:**

1. Delivered lecture regarding club activities in Two Weeks I Year Induction Programme (14.11.2022 to 26.11.2022) on 24.11.2022, Department of Civil Engineering University College of Engineering Anna University-BIT Campus, Tiruchirappalli – 620 024.
2. Delivered lecture in AICTE Sponsored One Week STTP Programme on Disaster Risk Management (online) (DRM) Phase I (29.11.2021 to 04.12.2021) “Impacts of Soil Erosion on Environment” on 04.12.2021, Department of Civil Engineering University College of Engineering Anna University-BIT Campus, Tiruchirappalli – 620 024.
3. Delivered lecture in AICTE Sponsored One Week STTP Programme on Disaster Risk Management (online) (DRM) Phase III (13.12.2021 to 18.12.2021) “Soil Erosion Study Using

GIS” on 18.12.2021, Department of Civil Engineering University College of Engineering Anna University-BIT Campus, Tiruchirappalli – 620 024.

4. Delivered lecture thorough online webinar in the topic of “3R Concepts on Water Conservation and Management” on 13.04.2022 at Department of Civil Engineering, Kongunadu College of Engineering and Technology, Thottiam, Tiruchirappalli.
5. Delivered lecture thorough online webinar in the topic of “Water Distribution Network Design” on 20.02.2021 at Department of Civil Engineering, Kongunadu College of Engineering and Technology, Thottiam, Tiruchirappalli.
6. Delivered lecture in the topic “Irrigation Engineering – On Farm Development works of Irrigation management” on 16.03.2020 at Department of Civil Engineering, Oxford Engineering College Tiruchirappalli.
7. Delivered lecture in the topic “Hydrological modeling using by Remote sensing and GIS” in one-day workshop on Remote sensing and GIS applications in Civil Engineering on 20.03.2018, organized by Department of Civil Engineering, UCE BIT campus, Tiruchirappalli.
8. Delivered lecture in the topic “Act and Rules on Air, Water and Land Pollution” in one-day workshop on Environmental Policies and legislation on 22.03.2018, organized by Department of Civil Engineering, UCE BIT campus, Tiruchirappalli.
9. One day Guest Lecture on titled “Economic analysis of water resources projects and National water policy” delivered to final year B.E. Civil Engineering students organized by Department of Civil Engineering, K.Ramakrishnan College of Engineering and Technology, Tiruchirappalli on 27.09.2017.
10. One day Guest Lecture on titled “Water resources and Irrigation Engineering” delivered to final year B.E. Civil Engineering students organized by Department of Civil Engineering, K.Ramakrishnan College of Engineering and Technology, Tiruchirappalli on 17.09.2016.