

# Curriculum Vitae

**Dr. KUMAR G**

Associate Professor

Department of Civil Engineering

Vel Tech Deemed to be University

Avadi, Chennai – 600 062.

Mobile:- (P) +91 – 9578303084

E-Mail:- [kumarggeo@gmail.com](mailto:kumarggeo@gmail.com)



## OBJECTIVE

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- Looking for challenging assignment in the area of **GEOLOGY, REMOTE SENSING & GIS** (Geographic Information System), which form out my personal and professional growth and helps me to effectively contribute my knowledge to fortify institution.

## ACADEMIC QUALIFICATION

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Degree	Subject	Institution/University	Year	% of marks	Ranks
Ph.D	Geology	Bharathidasan University	2018	---	Awarded
M.Tech	Geological Remote sensing and GIS	Bharathidasan University, Centre for Remote Sensing.	2006-08	77.63	I <sup>st</sup> class
M.Sc	Applied Geology	Bharathidasan University, National College.	2004-06	77.40	I <sup>st</sup> class
B.Sc	Geology	Bharathidasan University, National College.	2001-04	64.63	I <sup>st</sup> class

## PROJECT DETAILS

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### ➤ Ph.D Research Work

Remote sensing and GIS in hydrogeological and Groundwater management studies in kallar watershed, Tamil Nadu, India.

### ➤ M.Tech. Project work

Litho logical discrimination and hydrothermal alteration mapping of Mamandur area using Aster data, Indian **Institute of Technology at Powai**, Mumbai.

### ➤ M. Sc. Project Work

Carried out six months major project work on “Well Logging by Using Electrical Resistivity Method”, Tanjore District.

**Software’s used: Arc GIS 9.1, ERDAS 8.6, ENVI 4.2.**

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## EXPERIENCES

<b>Institution/University</b>	<b>Designation</b>	<b>From (mm/yyyy)</b>	<b>To (mm/yyyy)</b>	<b>Total Experience</b>
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Assistant Professor, Dept. of Civil Engineering	June 2016	Till Now	4 Years & 4 Months
SVS College of Engineering, Coimbatore	Assistant Professor, Dept. of Civil Engineering	June 2013	June 2016	3 Years
Roever College of Engineering and Technology, Perambalur	Assistant Professor, Dept. of Civil Engineering	June-2011	May 2013	2 Years

## WORKSHIOP / RESEARCH PROGRAMME / SHORT TERM COURSES ATTENDED

- ⊙ 21 days online course on “Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials” which was conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, during 13-06-2020 to 01-07-2020.
- ⊙ Five days FDP on “QCAD & QGIS” organized by department of Civil Engineering, SKN Sinhgad College of Engineering, Pandharpur from 22<sup>nd</sup> to 26<sup>th</sup> June 2020.
- ⊙ One days Workshop on “Total Organic Carbon Analysis of Solid and Liquid Samples (TOCSLS-2020)” organized by Environmental, Water Resources and Transportation Engineering in collaboration with Swan Environmental, Hyderabad at Vellore Institute of Technology Chennai during 28th Feb 2020.
- ⊙ Two days Workshop on “hydrogeochemical analysis & Ground water flow and contaminant transport modelling” organized by Water Institute – Centre of Excellence in Collaboration with Department of Civil engineering at Karunya Institute of Technology and Sciences, Coimbatore during 12 & 13 December 2019.
- ⊙ Participated five days short term course on “Advances in Urban Water Engineering and Management” conducted by **IIT Bombay** during December 10-14, 2018.
- ⊙ Two days Hands on training on Geographical Information Systems for Municipality Engineers and Town Planners held at Centre for Geographical Information Systems, Dr. Mahalingam Collee of Engineering and Technology, Pollachi on Nov 24<sup>th</sup> & 25<sup>th</sup>, 2017.

- ⊙ Workshop Computer Aided Structural Design by ETABS organized by department of civil engineering SVS College of Engineering, Coimbatore on 28<sup>th</sup> & 29<sup>th</sup> July 2017.
- ⊙ Workshop on 3d modelling & analysis using revit & staad pro organized by department of civil engineering veltech dr.rr & dr. SR university on 28/02/2017.
- ⊙ Workshop on coupling the grand challenges for engineering with CDIO organized by IQAC at Veltech dr.rr & dr. SR university on 07/03/2017 – 07/03/2017.
- ⊙ Faculty orientation program on “ effective Teaching” organized by HRDC at Veltech dr.rr & dr. SR university on 04/04/2017.
- ⊙ Faculty development programme on Modern Instructional Practices for Teaching and Learning organized by National Institute of Technology, Tiruchirappalli on 30 & 31 Jan 2017.
- ⊙ Faculty Enablement programme on Business communication and Team Work by Vel Tech University, Chennai 62 on 23 - 25 Nov 2016.
- ⊙ Training Programme on Geo Informatics Technology in Civil Engineering applications organized by Centre for Advanced Research in Environment, SASTRA University, Thanjavur on 4<sup>th</sup> & 5<sup>th</sup> Oct 2013
- ⊙ Remote sensing and GIS Techniques in Geology 9 & 10 August 2013 National College, Trichy.
- ⊙ Workshop on Image Processing and GIS Techniques in Geology organized by Department of Geology, National College, Trichy on 2<sup>nd</sup> & 3<sup>rd</sup> Aug 2013
- ⊙ Work shop on Seawater Intrusion in Coastal Aquifers organized by Central Ground Water Board, Chennai on 15<sup>th</sup> Mar 2013
- ⊙ R & D session of Indian National Committee for Groundwater organized by Ministry Of Water Resources, Government of India at CGWB, Chennai on 07<sup>th</sup> Feb 2013
- ⊙ GDP Programme on Nurturing The Next Generation organized by Roever College of Engineering and Technology, Perambalur on 7<sup>th</sup> & 8<sup>th</sup> Dec 2012
- ⊙ Geospatial Technologies and its Applications, Summer programme organized by Department of Civil Engineering, PSNA College of Engg & Technology, Dindigul on 2<sup>nd</sup> to 22<sup>nd</sup> May 2012
- ⊙ Workshop on Geological and Geotechnical Engineering organized by Department of Civil Engineering, Dr. Sivanthi Aditanar College of Engg, Thiruchendur on 5<sup>th</sup> ,6<sup>th</sup> Jan 2012
- ⊙ To identify the Groundwater potential by using Remote Sensing and GIS in Nandhiyar Watershed, Thiruchirapalli district- Presented in Karpagam College of Engineering, Coimbatore.

## PUBLICATIONS IN JOURNALS/CONFERENCES

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### JOURNALS:

S. Baskar and **G. Kumar**, “Land Suitability Assessment Using Remote Sensing And Geographical Information System In Mannargudi Block, South India”, International Journal Of Scientific & Technology Research, ISSN 2277-8616, Vol 8, Issue 11, **Nov 2019**.

**Kumar G**, R. Saravanakumar and J. Anne Mary, “Strength Behavior of Pumice Stone Lightweight Concrete Beam in Contrast with Reinforced Concrete Beam” International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-3, **Sep 2019**

**G. Kumar** and S Baskar “Geospatial Technology to Assess the Site Suitability of Solid Waste Management in Salem Corporation, South India”, International Journal of Emerging Technologies and Innovative Research (JETIR), ISSN-2349-5162, Vol.6, pp- 446 – 452, Issue 6, **June 2019**.

**G. Kumar**, R. Saravanakumar and J. Anne Mary “Experimental Study on Partial Replacement of Cement by Fly Ash, Jour of Adv Research in Dynamical & Control Systems”, Vol. 10, pp-1339-1347, 08-Special Issue, 2018.

S. Selvakumar, N. Chandrasekar and **G. Kumar** “Hydrogeochemical characteristics and groundwater contamination in the rapid urban development areas of Coimbatore, India” Journal of water resources and Industry 17 (2017) 26-33 Published by Elsevier. B. V

**Kumar G\*** and Srinivasan D ”Evaluation of Groundwater Potential Index (GWPI) using geophysical Survey in Kallar Watershed, Tamil Nadu, India”, International Journal of Earth science and Engineering, ISSN 0974-5904, Volume 09, **October 2016**.

**Kumar G\*** and Srinivasan D ”Climatic Water Balance Study and Drought assessment in Kallar Watershed, Tamil Nadu, India” International Journal of Earth science and Engineering, ISSN 0974-5904, Volume 09, No. **03June 2016**, P.P. 958-962.

Selvam. G, Prabakaran. K, Srinivasan. D and **Kumar. G**, (2015) “Assessment of Groundwater Quality in And Around Manapparai Block, Tamilnadu (India)”, International Journal of Recent Scientific Research, Vol. 6, Issue 3, pp. 2903-2907, ISSN NO.0976-3031.

**Kumar G\***, Srinivasan D and Selvakumar R “Geospatial modeling for demarcation of groundwater poten-tial zone using WIO and CIS techniques in Kallar water-shed, South India” International journal of innovative science, engineering & technology, vol. 1 Issue 10, Dec 2014. ISSN 2348 – 7968.

**Kumar G\*** and Srinivasan D “Remote sensing and GIS techniques for identification of artificial recharge sites in Kallar watershed, Tamil Nadu, India” International journal of Geology, Earth & Environmental sciences ISSN: 2277-2081 2014 vol. 4 (3) Sep-Dec, pp. 173-182.

**Kumar.G\***, Prabakaran.K and Selvam.G “Assessment of groundwater quality for Veppanthattai Taluk, Perambalur District, Tamil Nadu using remote sensing and GIS techniques” International Journal of Recent Scientific Research ISSN: 0976-3031 Vol. 6, Issue, 3, pp.3142-3146, March, 2015.

### **PROGRAMME ORGANIZED**

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- One day Seminar on 3<sup>rd</sup> Generation Waste Biomass Degradation and Solid Waste management using GIS in Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology on 10<sup>th</sup> October 2019.
- One day Hands-on Training on Geographical Information System (QGIS) in Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology on 30<sup>th</sup> March 2019.
- Two Days National Seminar on “Research Issues and Application of Remote Sensing (RIARS)” in Association with Vel Tech ICI Student Chapter on 25<sup>th</sup> & 26<sup>th</sup> October, 2018.
- One day Workshop on 3d modelling & analysis using revit & staad pro by CADD CAM solutions on Feb 28, 2017.
- ICA Model Building out of Rubbish Modeling Truss Bridge with Weight Test 5th – 23rd June, 2017.

### **CONFERENCES:**

- Assessment of heavy metal distribution and its seasonal variation of surface water in Adyar river, Tamil Nadu, India, International Conference on Sustainable Development in Energy and Environment by Kamaraj College of Engineering and Technology, Virudhu Nagar on 18 to 20 July 2019.
- Experimental investigation on partial replacement of cement using glass powder in 3<sup>rd</sup> National Conference on Global Environmental Changes and Sustainable Development organized by Department of Civil Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.
- Experimental investigation on partial replacement of mucking sand as fine aggregate in concrete in 3<sup>rd</sup> National Conference on Global Environmental Changes and Sustainable Development organized by Department of Civil Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.
- Role of chemical admixtures in enhancing fresh and hardened concrete properties in 3<sup>rd</sup> National Conference on Global Environmental Changes and Sustainable Development organized by Department of Civil Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

- Experimental study on partial replacement of cement by GGBS and partial replacement of fine aggregate by Vermiculite in concrete” in 2<sup>nd</sup> International Conference on Sustainable Practice in Civil Engineering organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore on 10<sup>th</sup> & 11<sup>th</sup> April 2017.
- Studies on corrosion of reinforcement geopolymer concrete beams” in 2<sup>nd</sup> International Conference on Sustainable Practice in Civil Engineering organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore on 10<sup>th</sup> & 11<sup>th</sup> April 2017.
- Investigation of concrete reformed by partial replacement of Rish Hush Ash” in National Conference on Global Environmental Changes and Sustainable Development at Veltech University, Chennai.

### RESEARCH SUPERVISION/GUIDANCE

S. No	Name	Area of Interest	Status
1	Jemal Aliy Gobena	Geotechnical Engineering	Ongoing
2.	Uppin Sangamnath	Remote sensing and GIS	Ongoing
3.	Anil Sangamnath Lagade	Remote sensing and GIS	Ongoing

### MEMBERSHIP IN PROFESSIONAL BODIES

BODY	STATUS	MEMBERSHIP ID
The Institute of Engineers (India)		
Associate Membership in Institute of Engineers (AMIE)	Life Membership	<b>AM168452-6</b>
Indian Geotechnical Society (IGS)	Life Membership	<b>CBE LM 98</b>
Indian Society for Technical Education (ISTE)	Life Membership	<b>LM79703</b>

### REFERENCES

- **Dr. D. Srinivaan**, Associate professor, Department of Geology, National College, Trichy-1. Email: geodsrinivasan@gmail.com, Mobile: 9442359716.
- **Dr. E. Perumal Pillai**, Director – HRDC, Professor & Head, Department of Civil Engineering, Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai – 600 062. Email: [ebppillai@yahoo.co.uk](mailto:ebppillai@yahoo.co.uk)

➤ **Dr. S. Kandasamy**, Assistant professor, Department of Civil Engineering, Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai – 600 062. Email: [drskandasamy@veltech.edu.in](mailto:drskandasamy@veltech.edu.in), Mobile: +91-8825545170.

## PERSONAL DETAILS

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- Name : G. Kumar
- Father's Name : C. Govindasamy
- Date of Birth : 01:12:1983
- Nationality : Indian
- Languages Known : English, Tamil, Hindi (Speak).
- Passport No : T6589082
- Address : 1/231 MGR Nagar,  
Neikuppai Post,  
Veppanthattai Taluk,  
Perambalur District,  
Tamil Nadu – 621 116.

## DECLARATION

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This is to certify that I the undersigned, Dr. Kumar. G hereby declares that the information given above is true and correct to the best of my knowledge and belief.

**Signature**

**Date** : 22-10-2020

**Place** : Chennai