



JSS Mahavidyapeetha



JSS Academy of Technical Education


Dr. Vishnuvardhan Road, Srinivasapura post, Bangalore, 560060

www. Jssateb.ac.in

FACULTY PROFILE

Department: Civil Engineering

1. Personal Details

NAME	Dr. Sanjay Shekar N C	
DEPARTMENT	Civil Engineering	
DESIGNATION	Associate Professor	
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Date of Joining (JSSATEB)	07-02-2020	

2. Experience

Total Experience in Years	Teaching: 11 Years	Research: 9 Years
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION/DEPARTMENT	UNIVERSITY
B.E.	Construction Technology and Management	2010	Sri Jayachamarajendra College of Engineering, Mysore	Visvesvaraya Technological University, Karnataka, India
M.Tech.	Remote Sensing and GIS	2012	Department of Water Resources and Ocean Engineering	National Institute of Technology Karnataka, India
Ph.D.	Water Resources Engineering	2020	Department of Water Resources and Ocean Engineering	National Institute of Technology Karnataka, India

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 6	National: –
Papers Published in SCOPUS indexed Journals	International: 2	National: –
Papers Published in other Journals	International: 1	National: –
Papers Presented in Conferences / Symposium	International: 1	National: 1

5. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	DOI and Year	WoS/ Scopus	Impact Factor	Publisher
1	Modeling bulk surface resistance and evaluation of evapotranspiration using remote sensing and MATLAB	Sanjay Shekar N. C. and Kumar Raju B C	Water Supply	https://doi.org/10.2166/ws.2022.036 Year 2023	Both WoS/ Scopus	2.061	International Water Association
2	Real silk textile wastewater treatment using 2-D electrochemical coagulation and estimation of electrical energy consumption	Hemalatha H.N. and Sanjay Shekar N. C	Brazilian Journal of Chemical Engineering	https://doi.org/10.1007/s43153-022-00236-4 Year 2022	Both WoS/ Scopus	1.648	Springer Nature
3	Performance Comparison of Penman–Monteith and Priestley–Taylor Models Using MOD16A2 Remote Sensing Product	Sanjay Shekar N. C. and Hemalatha H.N.	Pure and Applied Geophysics	https://doi.org/10.1007/s0024-021-02780-5 Year 2022	Both WoS/ Scopus	2.141	Springer Nature
4	Evaluation of the Priestley–Taylor method to estimate latent heat flux by triangular and trapezoidal approaches using remote sensing data	Sanjay Shekar N. C. and Hemalatha H.N.	Tropical Ecology	https://doi.org/10.1007/s42965-021-00186-x Year 2021	Both WoS/ Scopus	1.672	Springer Nature
5	Performance of HEC-HMS and SWAT to simulate streamflow in the sub-humid tropical Hemavathi catchment	Sanjay Shekar N. C. and Vinay D C	Journal of Water & Climate Change	https://doi.org/10.2166/wcc.2021.072 Year 2021	Both WoS/ Scopus	3.035	International Water Association
6	Penman-Monteith Evapotranspiration Model with Bulk Surface Conductance Derived from Remotely Sensed Spatial Contextual Information	Sanjay Shekar N. C. and Lakshman Nandagiri	International Journal of Remote Sensing	https://doi.org/10.1080/01431161.2019.1668074 Year 2020	Both WoS/ Scopus	3.752	Taylor and Francis
7	Evaluation of ArcSWAT model for streamflow simulation in the humid	Sanjay Shekar N. C. and Abhishek Pathak	Advances in Sustainability Science and Technology	https://doi.org/10.1007/978-981-16-7535-5_8	Scopus	-	Springer Nature

	tropical Netravathi catchment			Year 2022			
8	Actual Evapotranspiration Estimation using a Penman-Monteith Model	Sanjay Shekar N. C. and Lakshman Nandagiri	International Journal of Advances in Agricultural and Environmental Engineering (IAAEE)	http://dx.doi.org/10.15242/IJAAEE.AE0316212 Year 2017	Scopus	-	International Institute of Chemical, Biological & Environmental Engineering (IICBEE)
9	Land use and Land Cover Characteristics using Bhuvan and MODIS Satellite Data	Sanjay Shekar N. C. and Hemalatha H.N.	International Journal of Recent Technology and Engineering (IJRTE)	https://www.ijrte.org/wp-content/uploads/papers/v9i5/F5322039621.pdf Year 2020	Scopus	-	Intelligence Engineering and Sciences
10	Estimating and assessing actual evapotranspiration on a large scale using geospatial technologies	Sanjay Shekar N. C. and Kumar Raju B. C.	Cognitive Systems Research	Under review	Both WoS/ Scopus	3.523	Elsevier

ii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Publisher
1	Latent Heat Flux Estimation in a Sub-Humid Tropical Region using a Satellite-Based Penman-Monteith Model	Sanjay Shekar N. C. and Lakshman Nandagiri	International Conference on Civil, Environment and Waste Mgmt. (CEWM), Mauritius, 2016	International Institute of Environmental Engineering
2	Actual Evapotranspiration Estimation using satellite imagery	Sanjay Shekar N. C.	35 th National Convention of Environmental Engineers and National Conference, 2019	The Institution of Engineers (India)
3	Evaluation of ArcSWAT model for streamflow simulation in the humid tropical Netravathi catchment	Sanjay Shekar N. C. and Abhishek Pathak	International Conference on Sustainable Water Resources Management, 2020 IIT, Guwahati	Springer Nature

iii. Workshops/Conferences/Webinars (Organised)

Sl. No.	Name of the workshop / Conference	Organised by	Date	Role
1	Workshop on "Advances in Landslide Risk Assessment & Mitigation"	JSS Academy of Technical Education Bangalore	11th to 15th Sept 2023	Organizer
2	Workshop on "Geospatial Analytics"	JSS Academy of Technical Education Bangalore	26th to 30th Sept 2022	Organizer
3	Faculty Development Programme on Image and Signal Analysis	JSS Academy of Technical Education Bangalore	04 th to 09 th January 2021	Organiser
4	35 th National Convention of Environmental Engineers and National Conference, 2019	The Institution of Engineers (India)	17 th and 18 th August 2019	Souvenir Committee Coordinator
5	Workshop on Sustainable Development and Management of Water	Dayananda Sagar College of Engineering Bangalore	22 nd March 2018	Program Coordinator

iv. Workshops/Conferences (Attended)

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Drone and Photogrammetry Applications in Civil Engineering	Presidency University	21 st to 25 th August 2023
2	International Geoinformatics Summer School	Wuhan University, China.	21 st to 27 th August 2022
3	Recent Algorithms for Remote Sensing Applications	National Institute of Technology Karnataka (NITK), Surathkal	12th to 16th July 2022
4	One-week FDP on Climate Change and Carbon Issues	BMS College of Engineering, Bangalore	06 - 10 Jul 2020
5	One-week FDP on BIM.	Dayananda Sagar College of Engineering Bangalore	03 - 10 Aug 2018
6	Three days workshop on Revit Architecture	Dayananda Sagar College of Engineering Bangalore	03 - 05 Oct 2018

6. Details of MOOC/Coursera courses completed

Sl. No.	Name of the courses completed	University/Institute course credentials hyperlink	Grade / Marks
1	Introduction to GIS Mapping	University of Toronto, Ontario, Canada https://www.coursera.org/account/accomplishments/specialization/certificate/VCG3WP6XJB5T	77
2	GIS Data Acquisition and Map Design	University of Toronto, Ontario, Canada https://www.coursera.org/account/accomplishments/specialization/certificate/VCG3WP6XJB5T	87
3	Spatial Analysis and Satellite Imagery in a GIS	University of Toronto, Ontario, Canada https://www.coursera.org/account/accomplishments/specialization/certificate/VCG3WP6XJB5T	88
4	GIS, Mapping, and Spatial Analysis Capstone	University of Toronto, Ontario, Canada https://www.coursera.org/account/accomplishments/specialization/certificate/VCG3WP6XJB5T	88
5	Fundamentals of Management	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	86
6	Effective Problem-Solving and Decision-Making	University of California, Irvine, USA	83

		https://www.coursera.org/account/accomplishments/specialization/certificate/ZE5VWLZSRJBW	
7	The Art of Negotiation	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/ZE5VWLZSRJBW	88
8	Communication in the 21st Century Workplace	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	82
9	High-Impact Business Writing	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/ZE5VWLZSRJBW	95
10	Project Management: The Basics for Success	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	96
11	Finance for Non- Financial Professionals	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	91
12	Work Smarter, Not Harder: Time Management for Personal & Professional Productivity	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	81
13	Essentials of Entrepreneurship: Thinking & Action	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	94
14	Career Success Project	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	85
15	Fundamentals of Management	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/V8KPJ4DSU6HP	88
16	Write Professional Emails in English	Georgia Institute of Technology, Atlanta, USA https://www.coursera.org/account/accomplishments/specialization/certificate/PL8REKHRVZ43	98
17	Speak English Professionally: In-Person, Online & On the Phone	Georgia Institute of Technology, Atlanta, USA https://www.coursera.org/account/accomplishments/specialization/certificate/PL8REKHRVZ43	95
18	Build Your Professional ePortfolio in English	Georgia Institute of Technology, Atlanta, USA https://www.coursera.org/account/accomplishments/specialization/certificate/PL8REKHRVZ43	94
19	Take Your English Communication Skills to the Next Level	Georgia Institute of Technology, Atlanta, USA https://www.coursera.org/account/accomplishments/specialization/certificate/PL8REKHRVZ43	92
20	Initiating and Planning Projects	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/2JBD5CVSCMKR	95
21	Budgeting and Scheduling Projects	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/2JBD5CVSCMKR	86
22	Managing Project Risks and Changes	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/2JBD5CVSCMKR	81
23	Project Management Project	University of California, Irvine, USA https://www.coursera.org/account/accomplishments/specialization/certificate/2JBD5CVSCMKR	86

7. Membership of Professional Bodies:

Associate Membership in Institution of Engineers – AM180416
Life Membership in International Association of Hydrological Sciences - LM18068
Life Membership in Indian Society of Hydraulics – LM1511
Life Membership in Indian Society for Technical Education – LM117049

Life Membership in Indian Water Works Association – LM9919
Life Membership in Indian Water Resources Society – LM7869
Life Membership in International Association of Engineers – LM269161
Life Membership in Association of Agrometeorologists – LM1744
Life Membership in Indian Society of Remote Sensing – LM5573
Life Membership in Indian Society of Geomatics – LM2246
Life Membership in Association of Consulting Civil Engineers – 7652L

8. Any other information you will like to share about your professional experience

- Coordinator for NAAC at Civil Engineering Department, JSSATE, Bangalore.
- Coordinator for NBA at Civil Engineering Department, DSCE, Bangalore.
- Coordinator for Indian Institute of Remote Sensing (IIRS), ISRO outreach programme.
- Coordinator for framing Scheme and Syllabus for the proposed new B.Tech in Computer Science and Spatial Analytics course, JSSSTU, Mysore
- R & D committee member (Institute Level)
- Academic monitoring committee member (Institute Level)
- Cultural committee member (Institute Level)
- Coordinator for Internal Assessment Question Paper and Scheme quality assurance.
- Having experience as a Coordinator for conducting Conference/Workshop/Seminar/Symposia.
- Incharge HOD & Coordinator for B.Engg (Hons)- Civil Engineering awarded by the University of Technology, Mauritius (UTM).
- Certified trainer in Mauritius to enhance skills in Civil Engineering specializations.
- Deputy Chief Superintendent (DCS) for Examinations.
- Having experience as a Coordinator for conducting Conference/Workshop/Seminar/Symposia.
- Trained students to prepare for PWD exams, Government of Karnataka at JSS Training Institute for Competitive Exams
- Resource person on 5th day 27/11/2020 for the AICTE sponsored One-week Training Program on Applications of GIS & Remote sensing in Civil Engineering organized by Sri Siddhartha Institute of Technology, Tumkur from 23rd to 28th November 2020.
- Resource person on 1st day 10th July 2021 for the One-week Student Development Program on Geoinformatics; Prospective in Civil Engineering organized by PES Institute of Technology & Management, Shimoga from 10th to 14th July 2021.
- Visited countries like USA, China, Singapore, Thailand, Malaysia, Dubai & Mauritius for interaction and learned outside world experiences life values for personal growth.

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