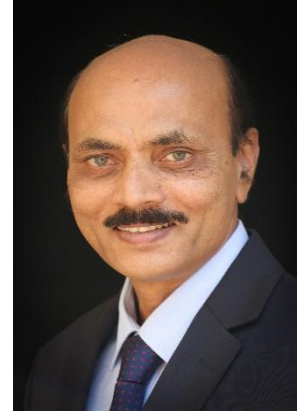


Dr. Dwarakish. G. S.
Professor [HAG]
Former HOD, Dean [P &D] & Dean [Academic Programs]
Dept. of Water Resources and Ocean Engineering
National Institute of Technology Karnataka, Surathkal
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Dr. Dwarakish G. S. hails from Mandya taluk and district, completed his early education in B. Gowdagere and received his B.Tech. degree in Civil Engineering in 1990 and M.Tech.[Hydraulics] in 1993, both from The National Institute of Engineering, Mysore, University of Mysore, Karnataka, and Ph.D. degree in 2001 from Institute of Remote Sensing, Anna University, Chennai, India.

He has started his teaching career during 1993 as Assistant Lecturer and currently he is serving as Professor [HAG], in the Dept. of Water Resources and Ocean Engineering, NITK, Surathkal.

His areas of specialization are Coastal Engineering, Remote Sensing, Digital Image Processing and GIS. He has guided 20 B.Tech. Projects, 64 M.Tech. Dissertations, 8 M.Sc. projects and 19 Ph.D. Scholars and 1 Post-Doctoral Fellow. Currently guiding 2 batches of B.Tech. Students, 4 M.Tech. Students and 4 Ph.D. Scholars.

He has completed 6 R & D projects funded by MHRD, DST, ISRO/RESPOND, ICMAM-PD & MoEF and currently executing 1 project. He has published 320 plus technical papers in International/National journals and conferences. He is a Guest Editor-In-Chief of special issue on *Remote Sensing and GIS Applications* of International Journal of Earth Sciences and Engineering and Guest Editor of Aquatic Procedia, published by Elsevier.

Dr. Dwarakish has also served as Associate Dean [Students' Welfare], Dean Planning and Development, Dean [Academic Programs], Faculty In-charge Testing & Consultancy, Dy. Coordinator NIT Goa, Head of the Department Water Resources and Ocean Engineering, Chairman Institute Grievances Redressal Committee and Chairman Staff Recreation Club.

He is a Fellow of Institution of Engineers, India, Fellow of Indian Water Resources Society, life member of ISTE, ISG, ISRS, IAH, ISH, Environmental Research Foundation, Viveka Sampada and Kannada Sahithya Parishath. He is also one of the four members of Panel of National Experts, to review the ADB coastal erosion protection projects.

He had visited Austria, Canada, Germany, Italy, Japan, Malaysia, Sri Lanka and USA for research interactions and for presenting research papers.

He is recipient of prestigious Prof. Satish Dhawan Young Engineers State Award for the year 2013, instituted by the Government of Karnataka in recognition of outstanding contribution in the field of Engineering Sciences, Indo-US Consortium for Engineering Education [IUCEE] Faculty Award 2016, for the outstanding teaching and academic achievements and Sir. M. Visveswaraya Engineer Award 2019 by Association of Civil Engineers, Mandya.

Dwarakish G. S.

Professor (HAG)

Department of Water Resources and Ocean Engineering

(Formerly known as Dept. of Applied Mechanics & Hydraulics)

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+91-9483647308 [Mobile]

Education

Ph. D., (Coastal Engineering, Remote Sensing & GIS), Institute of Remote Sensing, Anna University, Chennai, India (2001).

M.Tech. (Hydraulics) (1993), National Institute of Engineering, Mysore University, Mysore, India. Completed in First class with distinction.

B.Tech. (Civil Engineering) (1990), National Institute of Engineering, Mysore University, Mysore, India. Completed in First class with distinction.

College Education, National College, Basavanagudi, Bangalore, India.

High School Education, Ryots Education High School, Hanakere, Mandya, Karnataka, India.

Primary Education, Govt. Higher Primary Boys School, B. Gowdagere, Mandya, Karnataka, India.

Professional Experience

29/10/2024	Till Date	Member, Board of Governors
07/11/2023	07/05/2026	Dean Academic
01/01/2018	31/07/2018	Dean Planning and Development
30/08/2017	29/08/2019	Chairman, Institute Grievance and Redressal Committee
27/03/2015	14/03/2017	Professor and Head of Department
09/03/2015	Till Date	Professor [4-Tier Faculty Structure]
17/02/2010	09/03/2015	Professor
17/02/2006	17/02/2010	Associate Professor
17/02/2003	17/02/2006	Assistant Professor
17/02/2000	17/02/2003	Senior Lecturer
17/02/1995	17/02/2000	Lecturer
08/08/1993	17/02/1995	Assistant Lecturer
1990	1991	Site Engineer

Life Membership of Professional Bodies

Member	Indian Society of Remote Sensing (MISRS)	www.isrsindia.org
Member [LM 712]	Indian Society for Hydraulics (MISH)	www.e-ish.net
Member [LM 628]	Indian Society of Geomatics (MISG)	www.isgindia.org
Member [LM 52236]	Indian Society of Technical Education (MISTE)	www.isteonline.com
Member [92950546]	Institution of Electrical and Electronics Engineers [IEEE]	www.ieee.org
Member	Indian Association of Hydrology (MIAH)	www.iah/index.html
Member [88543]	Kannada Sahithya Parishath	
Member [LM 513]	Ocean Society of India	www.oceansociety.in
Member [LM 2022-7924]	Indian Water Resources Society	www.iwrs.org.in
Member [F-1276715]	Institution of Engineers (India)	www.ieindia.org

Courses Taught

Undergraduate Level

Post Graduate Level

Engineering Mechanics

Strength of Materials

Mechanics of Materials

Fluid Mechanics

Irrigation Design and Drawing

Remote Sensing & Geographical Information
System

Geomatics Applications in Civil Engineering

Digital Image Processing

Strength of Materials Lab.

Fluid Mechanics Lab.

General Oceanography

Principles of Remote Sensing

Geomatics Applications for Water Resources
Engineering

Geomatics Applications for Coastal Engineering

Digital Image Processing

ICZMP

Digital Image Processing Lab.

Remote Sensing & Geographical Information
System Lab.

Sponsored Research Projects Undertaken [7+2]

Period	Title of the Project	Amount (Rupees) and Sponsored Agency	Status
1999 – 2001	Modelling of Suspended Sediment Concentration off Mangalore Coast (As Research Scholar)	5.0 Lakhs RESPOND Programme Indian Space Research Organisation, Dept. of Space, Govt. of India.	Completed
2003 – 2005	Nearshore Processes Information System for Mangalore Coast- A RS and GIS Approach. (Principal Investigator)	10 Lakhs Ministry of Human Resources and Development, Govt. of India.	Completed
2003 – 2006	Management of Tidal Inlets along West Coast of India (Co-Investigator)	45 Lakhs Integrated Coastal Marine Area Management – Project Directorate (ICMAM-PD), Department of Ocean Development (DOD), Govt. of India	Completed
2004 – 2011	Integrated Coastal Zone Management Plan for Karnataka Coast (Principal Investigator)	23 Lakhs Ministry of Environment and Forestry, Govt. of India.	Completed
2006 – 2011	RS & GIS Application for Sustainable Management of Sacred Grooves in Kodagu District (Principal Investigator)	11.65 Lakhs DST, Govt. of India.	Completed
2006 – 2011	Analysis of Satellite Derived Wind and Wave Parameters of Karnataka Coast (Principal Investigator)	12.5 Lakhs RESPOND Programme Indian Space Research Organisation, Dept. of Space, Govt. of India.	Completed
2014	To strengthen the post-graduate teaching and research facilities in the Department. (As H.O.D)	220 Lakhs DST, Govt. of India.	Ongoing
2016	Coastal Ocean Technology [COT]	29 Lakhs Ministry of Earth Sciences (MoES), Govt. of India.	Ongoing
2017	National Post Doctoral Fellowship [N-PDF] (As Mentor)	19 Lakhs DST- SERB, Govt. of India.	Completed

Bachelor's Degree (B.E./B.Tech.) Project Guided [23]

Master's Degree (M.Tech.) Dissertation Guided [78+4]

Sl. No.	Title of Thesis	Name of the student	Year	Placement of the Student
1.	Soil Conservation and Watershed Management using Remote Sensing and GIS Techniques: A Case Study	M. Anisha	1995 – 1996	Assistant Executive Engineer, Govt. Of Andra Pradesh, Hyderabad, India
2.	Beach Sediment Characteristics Along Mangalore Coast	Raghavendra Majaker	1995 – 1996	Working in PWD, Kerala State
3.	A Study of Sediment Characteristics of Netravathi- Gurpur River Estuary and Neighbouring Beaches	V. Raghupal Reddy	1997 – 1998	Working as a Marine engineer in Royal Haskoning- NewBombay
4.	Shoreline Change Detection Through an Integrated Approach: A Case Study	Mallikarjuna Rao I.	1998 – 1999	Tata Consultancy Services, Present placement at USA
5.	Modelling of Sediment Dynamics of Mangalore Coast through MIKE 21 and Remote sensing	Sankar Babu K.	2001 – 2002	After completing his Ph.D. from IIT, Madras, now working in coastal engg. Deptt. Govt. Of Dubai.
6.	Harbour Area Information System (HIS) Using RS and GIS	Suresh Naik	2003 – 2004	Working as a Design Engineer in coastal Engineering Software company, Pune
7.	Coastal Zone Information System for Mangalore Coast using RS, GIS, and V.B.6.0.	Rajaram	2005 – 2006	Working as a Marine engineer in Royal Haskoning, New Bombay
8.	Integrated Coastal Zone Management Plan for Udupi Coast Through RS and GIS	Vinay S.	2006 – 2007	Working as a Marine engineer in Royal Haskoning, New Bombay
9.	Effect of Coastal Dams on Coastal Processes	Babita M. K.	2007 – 2008	Working for L & T construction company, Chennai
10.	EIA Studies in Mangalore Coastal Zone	Angel Zeba	2007 – 2008	Working for Chemical Company in Chennai
11.	Proximity Analysis for Mangalore City using Remote Sensing, GIS, GPS, and VB 6.0	Namratha V.	2007 – 2008	Working for GIS Company at UK

12.	Development of Sediment Yield Model for Periyar River Basin Through RS, GIS & GPS	Preethi Jacob	2008 – 2009	Working as faculty at Dayanand Sagar College of Engineering, Bangalore
13.	Modelling of Shoreline Configuration Along NITK and Cochin Coast	Indu Shekhar	2008 – 2009	Working for Coastal Structures Construction Company
14.	Modelling of Coastal Sediment Dynamics: A Case Study	Amruth Karjagi	2009 – 2010	Working for L & T, Chennai
15.	Study of Shoreline Configuration Using Multi-date Satellite Data for NITK Beach	Mohan Kumar	2009 – 2010	Working for GIS Company, Bangalore
16.	Numerical Modelling of Shoreline Configuration – A Case Study	Ms. Arya Ratish	2010 – 2011	Working for L & T, Chennai
17.	Applications of RS GIS and GPS for Sacred Groves Monitoring and Management	Harish Kumar S.	2010 – 2011	Working for ITC, Bangalore
18.	Groundwater Level Fluctuation Along Mangalore Coast Through Conventional and Modelling Approach	Suman B. S.	2010 – 2011	Looking after his own construction company, Shimoga
19.	Numerical Modelling of Sediment Dynamics: A Case Study	Pavithra N. R.	2011 – 2012	Working as a faculty in BIT, Bangalore
20.	Shoreline Configuration Through Conventional Methods	Sabarimon	2011 – 2012	Working as a site Engineer, Kerala
21.	Developments in Capital and Maintainance Dredging : NMPT	Sameer	2011 – 2012	Working as a site Engineer, Kerala
22.	Study of Sediment Dynamics Around Mulki-Pavanje Rivermouth Through Statistical Analysis	Mrinal S. Murali	2012 – 2013	Working as Faculty
23.	Planning of Marine Facilities for an LNG Terminal– A Case Study for the Development of an LNG Terminal in India	Rushith M. D.	2012 – 2013	Working as Site Engineer
24.	Prediction of Tides Along Karwar Coast Using Artificial Neural Networks	Shetty Rakshith	2012 – 2013	Working as Design Engineer for TCE
25.	Flood Risk Assessment in the Bagmathi and Adhwara River Basins, North Bihar Plains, India	Tilak N.	2012 – 2013	Working as Faculty

26.	Development of Flood Alert System	Uday Kumar	2012 – 2013	Working as a RS specialist
27.	Development of Algorithm for the Study of Sediment Dynamics Through Sediment Trend Analysis: A Case Study of Mangalore Coast, West Coast of India	P. Sri Ram Kumar	2013 – 2014	Working for L & T, Chennai
28.	Wave Forecasting Along Karnataka Coast Using Artificial Neural Networks	Deepthi I. Gopinath	2013 – 2014	Working as Assistant Professor
29.	Application of Neural Network Model for LU/LC Classification of Satellite Image	Nujuma Nazimudhin	2013 – 2014	Working as Assistant Professor
30.	Impact of Regional Economic Growth on Spatial Development, Case Study of Dakshina Kannada and Udupi Districts (Karnataka)	S. D. Suman	2013 – 2014	Working for Software company in Bangalore
31.	Prediction and Analysis of Land Use/Land Cover Dynamics with Respect to Driving Factors in Netravati and Harangi River Basin	Gayathri K. Devi	2014 – 2015	Working as Assistant Professor
32.	Flood Inundation Mapping for Bangalore Urban Area	Rajeesh R.	2014 – 2015	Working as Assistant Professor
33.	Prediction of Tides along Karnataka Coast Using PSO and Support Vector Machine	Akhil M.	2014 – 2015	Working as Assistant Professor
34.	Wave Forecasting Along Karnataka Coast Using PSO and Support Vector Machine	Liju K. V.	2014 – 2015	Working for Software company
35.	Assessment of Wave Energy Potential Along West Coast of India through Numerical Modelling	Justin Thomas T.	2014 – 2015	Working for Software company
36.	Shoreline Change Configuration and Coastal Protection Along Undivided Dakshina Kannada Coast- An Integrated Approach	L. Revanth Reddy	2015 – 2016	Working as an Engineer in L & T, Chennai.
37.	Coastal Sediment Dynamics through Numerical Modelling	Shabnum Suhura Shamsudeen	2015 – 2016	Working as Assistant Professor
38.	Hydromechanics Study for Netravathi Catchment Area	Fashamol T. M.	2015 – 2016	Working as Assistant Professor

39.	Prediction and Forecasting of Ocean Parameters Through Soft Computing Techniques - A case study	Nithyapriya B.	2015 – 2016	Pursuing her Ph.D. At IIT Bombay, Mumbai, under IITB-Monash Programme.
40.	Pollutant Identification & Mapping Using RS & GIS	Vineet Kumar Powal	2016 – 2017	Working in MNC in Delhi
41.	Runoff Estimation Using Advanced Geospatial Hydrologic Modelling Tools	Jubina C. K.	2016 – 2017	Working as Assistant Professor in College of Engineering Vadakara
42.	Development of a QGIS Plugin for the Application in RS & GIS	Barane Prathamesh K.	2016 – 2017	Working as JRF in Symbiosis Institute of Geoinformatics, Pune
43.	Hydrodynamic Analysis of Offshore Floating Wind Turbine Along Rameshwaram Kanyakumari Coast of Tamil Nadu	S. Sharad Kumar	2016 – 2017	Working as Technical Trainee in Chennai
44.	Aerosol Optical Studies Using Spaceborne Measurements.	M. Gopika	2016 – 2017	Working as Business Analyst in Bengaluru
45.	Shoreline Monitoring and Management Through an Integrated Approach- A Case Study	Bhavya	2017 – 2018	Working as Faculty
46.	Analysis Climate Impacts on Costal Karnataka	S. B. Gowthami	2018 – 2019	Completed
47.	Application of Geoinformatics for Prioritisation of Watersheds in Netravathi Catchment, Karnataka, India	Waleed Makhdumi	2018 – 2019	Pursuing his Ph.D. at NIT Karnataka, Surathkal
48.	Coastal Vulnerability Assessment of the Kasaragod Coast in Kerala, West Coast of India	Anjita N. A.	2019 – 2020	Pursuing her Ph.D. At IIT Bombay, Mumbai
49.	Development of Graphical User Interface Spreadsheet to Perform Sediment Trend Analysis: A Case Study of Mangalore Coast	Aseem V.	2019 – 2020	Assistant Engineer at Rashtriya Gram Swaraj Abhiyan
50.	Automated Shoreline Detection from Satellite Imagery Using Image Processing Techniques and its Change Analysis Along Mulki-Pavanje River Mouth	Linda Regi	2019 – 2020	Geo Analytics at WRI Indis's Sustainable Cities and Transport program
51.	Statistical and Hydrological Evaluation of Satellite Precipitation Products in Two	M. Satish Kumar	2019 – 2020	Software Systems Engineer at TATA

	Diverse Contrasting River Basins: Nethravathi and Ponnaiyar			Consultancy Services Pvt Ltd
52.	Future Land Use Land Cover Prediction of Netravati River Basin Through Cellular Automata Markov Chain Model	Nayana N.	2019 – 2020	Completed
53.	Port Performance Analysis Using DEA: A Case of NMPT Port	S. Chekatla	2019 – 2020	Planning Engineer at Meka Infrastructure Pvt Ltd
54.	Flood Frequency Studies of Sita Catchment, Karnataka, India	Soumya S. Nyamathi	2019 – 2020	Working at ATKINS
55.	Selection of Algorithm for Land Use Land Cover Classification and Change Detection	Arnab Chowdhury	2020 – 2021	Pursuing his Ph.D. at IIT Roorkee, Uttarakhand
56.	Oil Spill Trajectory Detection by GNOME and SAR	G. Masthan Wali	2020 – 2021	GeoSpatial Analyst at Satsure
57.	Drought Forecasting by Using Support Vector Machine Approach	Molaka Maruthi	2020 – 2021	Completed
58.	Rapid Mapping of Cyclone Amphan (2020) Induced Flooding in Parts of West Bengal, India Using Automated Thresholding Algorithms on SAR Images	Rasheeda Soudagar	2020 – 2021	Pursuing his Ph.D. at IIT Roorkee, Uttarakhand
59.	Ground Subsidence Monitoring with SAR Differential Interferometry in Chennai	S. Jyotna	2020 – 2021	Completed
60.	Oceanic Impact of Cyclone Phailin in The Bay of Bengal	Shrestha Rout	2020 – 2021	Completed
61.	Shoreline Change Detection Using Coastsat and QGIS along Kasaragod Coastline, Southwest Coast of India	G. Pavan Sai	2021 – 2022	Completed
62.	Evaluation and Determination of Reliability on Advanced Neural Network models for Prediction of Soil Moisture	Nagashree G. E.	2021 – 2022	Pursuing Ph.D. at IIT Roorkee, Uttarakhand
63.	Shoreline Change Analysis Along Thrissur Coast, Kerala Using MIKE 21	Angayarkkani R.	2022 – 2023	Working at TechnipFMC
64.	Prediction of Groundwater Levels Using MODFLOW	Sagar Agarwal	2022 – 2023	Completed

65.	Impact of Land Use Land Cover Change on Runoff Characteristics of Kali River Basin, Karnataka	Sreejith K. S.	2022 – 2023	Working at WSP
66.	Prioritisation of Sub-Watersheds for Soil and Water Conservation Practices – A Case Study of Upper Swarnamukhi Basin, Andhra Pradesh	Suraga M. R.	2022 – 2023	Working at WSP
67.	Automated Delineation and Species Identification of Individual Tree Crowns Using Mask R-CNN and UAV RGB Imagery	Gopalkrishna S.	2023 – 2024	Working at HSBC bank
68.	One Dimensional Flood Modelling of River Kaveri Using HEC-RAS	Jyoti Prasad Gupta	2023 – 2024	Pursuing PhD from IIT Kharagpur
69.	Study on Influence of Breakwater Structure on Flow Characteristics Using Numerical Modelling.	Nisarga Amin	2023 – 2024	Technip
70.	Urban pluvial flood modelling through SWMM and MIKE+ for Chennai city	Sindam Snikitha	2023 – 2024	Working at ATKINS
71.	Tidal Height Prediction Through Numerical Modelling	Sneha Krishnan	2023 – 2024	Working at OEDEC Engineering Consultancy
72.	Wave Energy Assessment and Wave Tide Dynamics along Central Coast of Kerala	Amegha Pratheraj	2024 – 2025	Working at WSP
73.	Wave Prediction using Artificial Neural Network	Athena Murali P.	2024 – 2025	Worley
74.	A Parametric Study on the Effects of Integrating Oscillating Water Columns with a Floating Wind Turbine Semi-Submersible Platform	Subrahmanian Namboodiri K	2024 – 2025	Technip
75.	Application of Machine Learning and HEC-RAS Model for Flood Inundation Mapping in Harangi Basin	Navya S.	2025 – 2026	Working at WSP
76.	Dinsar-Derived Glacier Dynamics Using Remote Sensing Data For Uttarakhand Glacier Region	Aniket Yadav	2025 – 2026	Working at Suhora
77.	Design and analysis of an Offshore wind turbine jacket integrated with Oscillating water column	Aswathi K. M.	2025 – 2026	Working at Eka Infrastructure

78.	Coastal Erosion and Shoreline Change along the Indian Coast: Evidence, Engineering Impacts, and Management Implications	Sreerag P. Kaimal	2025 – 2026	Site Engineer
79	Marine Structure	Anagha Babu	2026- 2027	Ongoing
80	Offshore structures	Pranav V Prakash	2026- 2027	Ongoing
81	Climate Resilience assessment of Indian cities using Remote sensing	P. Anoop Sreevas	2026- 2027	Ongoing
82	Climate change impact	Vivek S	2026- 2027	Ongoing

Master' s Degree (M.Sc.) Dissertation Guided [10]

Sl. No.	Title of Thesis	Name of the student	Year	Placement of the Student
1.	Web Based Information System for New Mangalore Port Trust	Shwetha Nayak	2004 – 2005	Working as a faculty in Udupi
2.	Coastal Zone Information System for D. K. Coast	Nisha	2005 – 2006	Working as a faculty in Mangalore University
3.	NITK Information System	Shakila	2005 – 2006	Working in a Software company
4.	Coastal Zone Information System for Udupi Coast	Amrithkala M. Shetty	2006 – 2007	Working as a faculty in Mangalore University
5.	Integrated Modelling Approach for Shoreline Monitoring and Management	Aashvija	2008 – 2009	Working for KSRSAC, Mangalore
6.	Integrated Modelling Approach for Sediment Yield Estimation for Periyar River Basin	Supriya J. Anchan	2008 – 2009	Working for SOI, Bangalore
7.	A Study on Beach Morphology and Shoreline Changes Along Dakshina Kannada Coast	Vijay Laxmi	2013 – 2014	Mangalore University, Mangalore
8.	Sediment Dynamics Along Mangalore Coast	Bharat N.	2022 – 2023	Completed (Mangalore University)
9.	Shoreline Change Detection Through Geo-informatics	Gopika C.	2022 – 2023	Completed (Mangalore University)

10.	Rainfall Runoff Modelling Using Remote Sensing and Conventional Data	Swathi K. K.	2022 – 2023	Completed (Mangalore University)
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Ph.D. Research Supervision [19+4]

Sl. No.	Name of Student	Reg. Year and Status (FT/PT)	Title of Dissertation	Other Supervisor	Completed [placement]/ Ongoing
1.	Jagadeesha Pai B.	Full Time Institute Scholar 2004 – 2009	Retrieval of Wind and Wave Parameters Over Indian Ocean Region Using Synthetic Aperture Radar Data	Prof. A. Vittal Hegde.	Completed and working as a faculty at MIT Manipal.
2.	Ashok Kumar T.	Part Time 2004 – 2010	Advanced Image Processing Techniques and Algorithms for Classification of Semi-Urban Land Use/Land Cover Features Using High-Resolution Satellite Data	Prof. Shivaprakash Koliwad MCE – Hassan.	Completed and working as a Principal of VCET, Puttur.
3.	Rajagopal B.	Q.I.P. Full Time [Polytechnic] 2005 – 2013	Studies on Land Use/Land Cover Changes and Water Quality Due to Urbanization Along the Coastal Areas Of Dakshina Kannada District, Karnataka, India	Dr. Srihari. S	Completed and working as a Principal in Polytechnic College in A.P.
4.	Abdu Rahiman K. U.	Q.I.P. Full Time [KUSAT] 2006 – 2009	River Runoff and Sediment Flow Changes Induced by Dams in Periyar River Basin, Kerala, India	-	Completed and working as a faculty at CUSAT, Cochin
5.	Shushma S. B.	Part Time (Under Project) 2008 – 2015	RS and GIS tools to Support Conservation and Sustainable Management of Sacred Groves in Kodagu District	Dr. K. B. Kiran	Completed and working as a Scientist in Mines and Geology
6.	Gumageri Nagaraj	Institute Fellowship – Full Time 2009 – 2013	Study of Geomorphology and Dynamics of Shoreline Associated with Mulki-Pavanje River Mouth, Dakshina Kannada Coast, Karnataka, India	-	Completed and working as a faculty in BIT, Mangalore
7.	Gowthaman R.	Part Time 2010 – 2016	Modelling of Shoreline Configuration Along Rameshwaram Island, East Coast of India	-	Completed and working as a Scientist, NIO, Goa

- | | | | | | |
|-----|----------------------------|--|--|----------------------|--|
| 8. | Raju A. | Institute
Fellowship –
Full Time
2011 – 2014 | Development of Contrast
Enhancement Algorithms for
Coastal Applications Using
Satellite Images | Prof. D. V.
Reddy | Completed and
working as a faculty
in Japan |
| 9. | Ganasri B.
P. | PGRA-
Institute
Fellowship –
TEQIP –
Full Time
2012 | Impact of Land Use Changes on
Hydrological Response of Humid
and Sub-humid Catchments in
Karnataka State, India | - | Completed and
working in USA |
| 10. | Arega Mulu
Adal | Ethiopian
Government
Fellowship
2013 – 2016 | Simulation of Hydrological Effects
of Land Use /Land Cover, Climate
Change and Effect of Dam at
Gilgel Abay River Basin, Ethiopia | - | Completed and
working as faculty in
Ethiopia |
| 11. | Preeti Jacob | Part Time
2014 | Experimental Study on Effect of
Aggregate Size on the Hydraulic
Properties of Pervious Concrete | - | Completed and
working as faculty in
CMR Institute of
Technology |
| 12. | Dayanand
Shetty | Part Time
2015 – 2019 | Optimisation of Vessel Turnaround
Time in a Seaport with a Special
Reference to New Mangalore Port
Trust | - | Completed and
working as an
engineer in NMPT |
| 13. | Arunkumar
Yadav | Institute
Fellowship –
Full Time
2015 – 2020 | Shoreline Dynamics in Response
to River Sediment: A Case Study | Dr. B M
Dodamani | Completed and
working as faculty in
MAHE Bengaluru |
| 14. | Abiot
Ketema
Demmsie | Ethiopian
Government
Fellowship
2016 – 2021 | Simulation of the Hydrological
Impacts of Climate and Land Use /
Cover Change on Tikur Wuha
Watershed in Ethiopia | - | Completed and
working as faculty in
Ethiopia |
| 15. | Dinu Maria
Jose | Institute
Fellowship –
Full Time
2017 | Temporal Analysis of Land Use
Land Cover and Climate Change
on Streamflow and Sediment Yield
of Netravathi River Basin, India | - | Completed and
working as GIS
Engineer in Verisk,
Hyderabad |
| 16. | Waleed
Makhdumi | Institute
Fellowship –
Full Time
2019 | Soil Erosion Modelling,
Assessment and Watershed
Prioritisation in Netravati
Catchment, Karnataka, India | Dr. Shwetha
H. R. | Completed |
| 17. | G. Praveen
Kumar | Institute
Fellowship –
Full Time
2020 | Impact Assessment of Climate
Change and Land Use Land Cover
Change on Streamflow in Kali
River Basin, Karnataka, India | - | Completed and
working as Project
Scientist-I, ESSO-
National Center for
Earth Science
Studies,
Thiruvananthapuram. |

18.	Mukul Kumar Sahu	Institute Fellowship – Full Time 2020	Hydro-geospatial Analysis and AI-based Flood Modelling and Mapping in Cauvery River Basin, India	Dr. Shwetha H. R.	Completed and working as Assistant Technical Specialist, Sustainability RMSI, Noida.
19.	Parvathy M. M.	Part Time 2020	Coastal Vulnerability Assessment to Climate Change Impacts for the State of Kerala, South – West Coast of India	-	Completed and working in Irrigation Department of Kerala, Thiruvananthapuram
20.	Anurag Labh Aman	Institute Fellowship – Full Time 2021	Kosi River Dynamics Through Hydrodynamic Modelling	-	Ongoing
21.	Avinash R.	Institute Fellowship – Full Time 2022	Assessing the Impacts of Climate Change and Groundwater Withdrawal on Streamflow	-	Ongoing
22.	Vinod P. N.	Part Time 2023	Surface water Hydrology	Dr. Subrahmanya K.	Ongoing
23.	Vinayak N.	Part Time 2024	Drought and Flood Analysis	Dr. Subrahmanya K.	Ongoing

List of Publications (327)

Book Chapters	16	
	International	National
Journal papers	88	13
Conference/workshop/Symposium	129	81

Book Chapters/Proceedings [16]

- 2025** Aman, A. L., and **Dwarakish, G. S.** (2025) “Comparative Analysis of Braiding Intensity of Kosi River Using Remote Sensing and GIS. In: Pandey, M., Jayakumar, K.V., Pal, M., Singh, V.P. (eds) *Soft Computing and Geospatial Techniques in Water Resources Engineering*. HYDRO 2023. Lecture Notes in Civil Engineering, vol 397. Springer, Singapore. https://doi.org/10.1007/978-981-97-7467-8_35
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- 2005** **Dwarakish, G. S.**, Mayya, S. G., Hegde, A. V., Nayak, S., Pai, J. B. and Rajani, K. S. (2005). "Web based system for New Mangalore Port Trust." All India National seminar on Ports & Ships Partners in Marine Transport, 12-13th November 2005, NMPT, Mangalore. PP. 86-92.

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2003 Dwarakish, G. S., Babu, S. K., and Kumar, J. S. (2003). "Modeling of Sediment Dynamics off Mangalore Coast through Remote Sensing and MIKE 21." Hydraulics, Water Resources & Ocean Engineering – HYDRO 2003, Pune, December 2003, pp.301-307.

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Dwarakish, G. S. (2003). "RS and GIS and Visualization Capabilities for Interlinking of Rivers." National Workshop on Interlinking of Rivers: Concerns and Issues, UVCE, Bangalore, pp 98-111.

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2000 Dwarakish, G. S., Natesan, U., Jegankumar, R., and Rao, M. I. (2000). "Geomorphology and Confluence Width Changes of Rivermouths by Remotely Sensed Data – Mangalore Coast." National Conference on Geoinformatics 2000, Coimbatore, November 2000, pp.1-5.

Rao, N. B. S., **Dwarakish, G. S.,** and Rao, M. I. (2000). "Shoreline Change Detection through an Integrated Approach: A Case Study." National Conference on Hydraulics and Water Resources (HYDRO 2000), Kurukshetra, October 2000, pp.351-357.

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Dwarakish, G. S., Anisha, M. and Bannur, C. R. (2000). “Soil Conservation and Watershed Management Using Remote Sensing and GIS Techniques: A case study.” National Symposium on Remote Sensing for Natural Resources and Watershed Management, Indian Society of Remote Sensing, ORSAC, Bhubaneshwar, India.

1999 **Dwarakish, G. S.,** and Anisha, M. (1999). “Prioritization of Micro watersheds by Remote Sensing and GIS Techniques: A case study.” National Seminar on Watershed Management for Sustainable Development, Tirupathi, March 1999.

Dwarakish, G. S., Natarajan, T., Natesan, U. and Reddy, R. (1999). “Analysis of sedimentary processes through sediment trend matrix.” National Conference on Hydraulics – HYDRO 99, Nagpur, 1999.

1997 Dattatri, J., Rao, N. B. S., Rao, S. **Dwarakish, G. S.,** and Kumar, N. B. (1997). “Beach Profile Studies along Dakshina Kannada Coast of Karnataka State .”Second Indian National Conference on Harbour and Ocean Engineering (INCHOE-97), Thiruvananthapuram, December 1997, pp.1135- 1144.

Dattatri, J., Rao, N. B. S., Kumar N. B., Rao, S. and **Dwarakish, G. S.** (1997). “Coastal Erosion along Dakshina Kannada Coast, Karnataka, India.” National Seminar on Coastal Zone Environment Management: An Appraisal of the Contemporary Research and Development, Mangalore, India, February 1, 1997.

Conferences / Seminars / Workshops attended

2025	HYDRO International 2025 - 30 th International Conference on Hydraulics, Water Resources, River and Coastal Engineering	Chairperson
2024	Sustainable Groundwater Management for Water Security, June 21, 2024, held at the Karnataka Science and Technology Academy (KSTA) Office.	Coastal Aquifers in the Context of Integrated Coastal Zone Management (Invited Talk)
2023	New Horizons in Civil Engineering (NHCE-2023) October 13-14, 2023 MIT Manipal.	Role of Geoinformatics in Coastal Engineering (Invited Talk)
	Innovative Concepts in Ocean Engineering, July 28, 2023, NITK, Surathkal.	---
	International Conference on Sustainable Infrastructure: Innovation, Opportunities and Challenges (SIIOC-2023), April 20-21, 2023, NITK, Surathkal.	Paper Presentation
2021	HYDRO 2020 International, March 26-28, 2021, NIT Rourkela.	Geoinformatics Applications in Coastal and Ocean Engineering (Key Note)
2016	National Conference of Advanced Trends in Civil Engineering & Sustainable Development (ATCESD-16) on 26 th & 27 th February 2016	Flood Risk Assessment: A Review
	National Conference of Advanced Trends in Civil Engineering & Sustainable Development (ATCESD-16) on 26 th & 27 th February 2016	A Review on Hard option to Prevent Beach Erosion: Do they Really Work?
	National Conference of Advanced Trends in Civil Engineering & Sustainable Development (ATCESD-16) on 26 th & 27 th February 2016	Applications of Remote Sensing & GIS for Flood Alert System using a case study of Adhwara Basin
	10 th International Symposium on Lowland Technology (ISLT 2016), during September 15-16, 2016	Chairperson
	10 th International Symposium on Lowland Technology (ISLT 2016), during September 15-16, 2016	Paper Presentation
2015	8 th KSTA Annual Conference on Science and Technology for GenNext Urban Space held between 5 th and 6 th November	Coastal Erosion Mitigation Measures – State-of-the-Art

8 th KSTA Annual Conference on Science and Technology for GenNext Urban Space held between 5 th and 6 th November	Assessing the Dynamic Changes in Land Use and Land Cover and Hydrological Processes in Netravati River Basin, Karnataka,
8 th KSTA Annual Conference on Science and Technology for GenNext Urban Space held between 5 th and 6 th November	Study of Mulky-Pavanje River Mouth Dynamic, Mangalore Coast, West Coast of India: An Integrated Approach
8 th International Conference on Asian and Pacific Coasts (APAC 2015) held on 7 th and 10 th September	Weekly Prediction of Tides using Neural Networks
Dfi-NITK Workshop on Recent Trends in Piling and Ground Improvement on 31 st July and 1 st August 2015.	---
National Conference on Geospatial Information & Technology Advancement (GITA-2K15)	Application of Neural Network model for LU/LC classification of satellite images of Netravathi river basin.
4 th International Conference on Emerging Trends in Engineering, Science & Technology (ICETEST). 9-11 December, 2015	Chairing a session
i-managers International Conference on Engineering and Technology on 10 th and 11 th April	GIS and Open Geosuite for Sacre Groves of Kodagu District
2014 Introduction to CAD/CAM and STAAD, Centre for Continuing Technical Education in Karnataka, Batwal on 3 July 2014	RS and GIS for Civil Engineering,
Introduction to CAD/CAM and STAAD, Centre for Continuing Technical Education in Karnataka, Batwal on 23 June 2014	Effective Teaching Methodologies/Engineering Mechanics
Certificate Course on Mining Survey (CCMS), Dept. Of Mining Engineering, NITK, Surathkal, during 09, July 2014	CCMS on Remote Sensing and GIS
Annual Conference on Innovations and Developments in Civil Engineering (ACIDIC-2014), Department of Civil Engineering, NITK, Surathkal, 19-20 May 2014	Geoinformatics for Civil Engineering
Faculty of Science, Technology, Engineering and Mathematics (FOSTEM), INTI International University, Kaula Lumpur, Malaysia on 16 April 2014	Geoinformatics for Coastal Engineering

3 days technical fest SRISHTI 2K14, Department of Civil Engg., LBS College of Engineering, Kasaragod on 13,14 and 15 March 2014	Remote Sensing and GIS in Civil Engineering
2014 IEEE Region 10 Technical Symposium, during 14-16, 2014, Kaula Lumpur, Malaysia	Satellite Image Contrast Enhancement Algorithm based on Plateau Histogram Equalization
Short-term Course on Advances and Latest Developments in Mining Geology and Rock Mechanics (STCMGRM-2014), during 02-04, April 2014	Geoinformatics for Civil and Mining Engineering
National Workshop on Civil Engineering Challenges in 21 st Century (CEC21-2014), Department of Civil Engineering, Mangalore Institute of Technology and Engineering (MITE), Moodabidri. Mangalore during 21-22 February, 2014	Geoinformatics for Civil Engineering
Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014), NIO, Goa, 5-7 February 2014	Study of Coastal Sediment Dynamics and Sand Spit Morphology Around Netravati – Gurpur Rivermouth Through Integrated Approach
3 rd World Conference on Applied Sciences, Engineering and Technology, 27-29 September	Histogram Equalization Based Mean Self-Adaptive Plateau Histogram Equalization for Brightness Preserving and Contrast Enhancement.
3 rd World Conference on Applied Sciences, Engineering and Technology, 27-29 September	Relocation of Waste bins: A GIS Approach.
2013 National Conference on New Horizons in Civil Engineering (NHCE-2013), Department of Civil Engineering, Manipal Institute of Technology, Manipal, Karnataka, 12-13 April, 2013	Sediment Trend Analysis and Determination of Sediment Movement Patterns Along Coastline in the vicinity of Mulki-Pavanje River Mouth
National Seminar on Coastal Environments and their Management, Department of Marine Geology, Mangalore University, 22-23 January, 2013	Coastal erosion and mitigation measures along Mangalore Coast, South West Coast of India
International Conference on Conserving Biodiversity for Sustainable Development (INCCBSD 2013), DBME, NIT Rourkela, during 16-18, August 2013	RS and GIS Tools to Support Conservation and Sustainable Management of Sacred Groves in Kodagu District, Karnataka, India
2012 National Workshop on Conservation of West Flowing Rivers in Coastal Karnataka, Department of Applied	Geoinformatics for Water

	Mechanics and Hydraulics, NITK, Surathkal and Dept of Civil Engg., VCET, Puttur, during 14-15 December 2012	Resources Engineering
2011	National Conference on Coastal Hazards, Resources & Management, Department of Marine Geology, Mangalore University, Mangalagangothri, Karnataka, India, 25 & 26 March, 2011.	Integrated Coastal Zone Management [ICZM] – An Indian Scenario.
	National Conference on Coastal Hazards, Resources & Management, Department of Marine Geology, Mangalore University, Mangalagangothri, Karnataka, India, 25 & 26 March, 2011.	Development of DEM Using ERDAS Imagine 9.0 and ArcGIS 8.3 for Mangalore Coastal Zone, Dakshina Kannada District, Karnataka, India.
	National Conference on Coastal Hazards, Resources & Management, Department of Marine Geology, Mangalore University, Mangalagangothri, Karnataka, India, 25 & 26 March, 2011.	Spit Evolution in the vicinity of Mulky-Pavanje Rivermouth, West Coast of India.
2010	National Conference on Sustainable Water Resources Management [SwaRM 2010], NITK-Surathkal, India, 7th -9th January 2010.	Determination of Global Water Quality Indices for River Nethravati, South India.
	National Conference on Sustainable Water Resources Management [SwaRM 2010], NITK-Surathkal, India, 7th -9th January 2010.	Variable Source Area Watershed Model for Konganahole Catchment Area in Western Ghats
	National Conference on Coastal Processes, Resources and Management, CESS, Thiruvananthapuram, Kerala, India, 5-7th February 2010.	A study on Variations in the Sediment Dynamics along the Dakshina Kannada Coast, West Coast of India.
2009	Theme meeting on retrofitting & Rehabilitation of Structures (TMRRS) and International Seminar on Structural Rehabilitation, NITK Surathkal, 30-31 March 2009.	---
	International Conference in Ocean Engineering [ICOE-2009], IIT Madras, India, 1-5th February 2009.	Interference of Dams in Periyar River Basin, Kerala, on Coastal Sedimentation.
	National Workshop on Present and Future Trends in Marine Geology and Geophysics, Mangalore University, India, 21-22nd April 2009.	---
	KSCST- 32nd Series of Student Project Programme [SPP], Seminar cum Exhibition, NITK-Surathkal, India, 4-5th September 2009.	---

	24th Indian Engineering Congress, NITK-Surathkal, India, 10-13th December 2009.	Land Use Land Cover Change Detection Using Digital Image Processing
	39th ISTE Annual Convention, NITK-Surathkal, India, 18-20th December 2009	---
2008	KU-NITK Joint seminar 2008- Recent Advances in Engineering & Technology, June 26, 2008, Inamori Auditorium, Kagoshima University, Japan.	---
	International Conference on Content-Based Image Retrieval, PES Institute of Technology, Bangalore, India, 16-18th July 2008.	Decision tree: A non-parametric approach for classification of High-resolution remote sensing data.
	3rd International Conference on Advanced Computing & Communication Technologies, Asia Pacific Institute of Information Technology SD India, Panipat, 08-09th November 2008.	Effectiveness of decision tree algorithm in classification of semi-urban land cover classes 2-5m resolution satellite imagery.
	National Conference on Hydraulics, Water Resources & Environment HYDRO 2008, Anuvrat Vishwarbharti, Jaipur, India, 15-16th December 2008.	Changes in Hydrology and coastal sedimentation by Dams – A case study.
2007	Indo-Japan workshop on Coastal Problems and Mitigation Measures – Including the effects of Tsunami, IIT Madras, 16-17 th July 2007.	---
	SPIE Remote Sensing International Conference, Florence, Italy, September, 17-21, 2007.	Integrated Coastal Zone Management Plan and Coastal Zone Information System for Udupi Coast, West Coast of India
2006	Initiative for Research and Innovation in Science [IRIS-2006]	Assessment of potential locations for offshore wind energy
	SPIE- 5 th Asia Pacific Remote Sensing International Symposium, Marriot Hotel, Panjim, Goa, India, 13-17 th November 2006.	Integrated Coastal Zone Management system for Mangalore Coast west coast of India
	SPIE- 5 th Asia Pacific Remote Sensing International Symposium, Marriot Hotel, Panjim, Goa, India, 13-17 th November 2006.	Comparative study of ocean wave spectrum using ENVISAT SAR data and wave rider buoy data

National conference on Rehabilitation Measures for the ---
Tsunami affected Coasts of Tamilnadu, Andhra
Pradesh, Kerala, Pondicherry and Andaman & Nicobar
Islands, IIT Madras. 11-12 December 2006.

Books, Monographs, Lab or Design Manuals - Authored/Edited

1. Coastal Land Use/Land Cover and Shoreline Studies for Dakshina Kannada Coast, Karnataka, India Shabnum Suhura, B. Nithyapriya, L. Revanth Reddy, Noelle Philipose, Mary Manisha and **G. S. Dwarakish**. Water Resources Management by the Springer – Nature under the Water Science and Technology Library 78, ISBN 978-981-10-5710-6.
2. Guest Editor – Elsevier Aquatic Procedia-Special Issue on ICWRCOE‘15
3. Guest Editor-In-Chief for Special Issue on RS & GIS Applications, International Journal of Earth Sciences and Engineering
4. Lecture Volume prepared for the Two Days Curriculum Workshop on Geoinformatics in Coastal and Water Resources Engineering. Department of Applied Mechanics and Hydraulics, NITK, from 23-24 September 2013 (Coordinator: **Dr. G. S. Dwarakish**)
5. Lecture volume prepared for the training programme sponsored by TEQIP on ETMS’10 (2010), held at GEC, Goa. (Coordinators: **Dr. G. S. Dwarakish**, Dr. K B Kiran, Dr. B M Dodamani, Dr. V N Shet, Dr. Ulhas Sawaikar and Dr. Vanessa.C)
6. Prepared the complete PPTs for the two subjects namely Remote Sensing & GIS and Digital Image Processing.
7. Contributed to two research papers for the book titled “Coastal Environments: Problems and Perspectives” Edited by K.S.Jayappa and A. C. Narayana, 2009.
8. Lecture volume prepared for the summer School sponsored by AICTE-MHRD on ETMS ’ 10 (2010). (Coordinators: **Dr. G. S. Dwarakish** & Dr. K B Kiran)
9. Lecture volume prepared for the winter School sponsored by AICTE-MHRD on GIRBD ’ 09 (2009).
10. Lecture volume prepared for the winter School sponsored by AICTE-MHRD on GICZMP ’ 09 (2009).
11. Written a complete chapter on Geographical Information System (GIS) in the textbooks, one on “Applied Geology” and another on ‘Engineering Geology’ by Prof. D. Venkat Reddy.
12. Lecture Volume prepared for the “Workshop on Wetland Monitoring and Management” sponsored by TEQIP, conducted in our department.
Coordinators: Prof. Arkal Vittal Hegde and **Dr. G. S. Dwarakish**).
13. Lecture volume prepared for the workshop on ‘ICZMP-D.K and Udupi Coast’ Sponsored by MOEF, ‘RS & GIS’ Course and GPS Course sponsored by TEQIP, MHRD, Govt. Of India.

Technical Reports (External & Internal)

Authors	Title of Report	Particulars (Sponsored R&D/ Consultancy/ Status Reports, etc.)
Dr. G. S. Dwarakish (P.I.)	Simulating the Impact of Land Use Changes on Hydrological Response of Humid and Sub-Humid Catchments in Karnataka State, India	The final report was prepared & Submitted to the ISRO RESPOND
Dr. G. S. Dwarakish (Research Co-ordinator)	Proposal for Creation of Ocean and Atmospheric Science and Technology Cell (OASTC), Centre for Ocean Technology (COT)	The final report was prepared & Submitted.
Dr. G. S. Dwarakish (P.I.) Dr. S.G. Mayya (Co-P.I.)	Nearshore processes information system for Mangalore coast - A RS & GIS Approach	The final report was prepared & Submitted.
Dr. G. S. Dwarakish (P.I.) Prof. G. Srinikethan (Co-P.I.)	Integrated Coastal Zone Management Plan for Karnataka Coast	The first Draft of the Final report was Prepared and Submitted
Dr. Subba Rao Dr. Kiran G Shirlal Dr. G. S. Dwarakish (Co-P.I.) Mr. Subramanya K.	Management of Tidal Inlets along West Coast of India	The final report was Prepared and Submitted
Dr. G. S. Dwarakish (P.I.) Mr. K. B. Kiran (Co-P.I.)	RS and GIS tools for sustainable management of Sacred Groves in Kodagu district	The annual progress report was prepared
Dr. G. S. Dwarakish (P.I.)	Analysis of satellite derived wind and wave parameters for coastal waters off Karnataka	The annual progress report was prepared

Continuing Education Programmes / Short Term Courses/ Workshops / Seminars Etc. Organized

Date	Title of Programme	Funding Agency
11/04/2014	Special Lecture by Dr. M. Baba	Institute Fund, NITK, Surathkal
21/09/2013	Special Lecture by Prof. Venkatlakshmi, University of South Carolina (USC)	Institute Fund, NITK, Surathkal
05/09/2013	Special Lecture by T. N. Singh	Institute Fund, NITK, Surathkal
17/12/2012	Special Lecture by Prof. J. Dattatri	Institute Fund, NITK, Surathkal
13/06/2011 - 17/06/2011	Effective Teaching Methodologies [ETM 10]	TEQIP, NITK, Surathkal, Govt. Of India, New Delhi. [Conducted at NIT Goa, GEC Campus]
11/05/2010 - 14/05/2010	Effective Teaching Methodologies - Statics [ETMS' 10] - Summer School	MHRD, Govt. Of India, New Delhi.
15/02/2010 - 19/02/2010	NURTURANCE Programme for NTS Awardees	NCERT, Govt. Of India, New Delhi.
29/12/2009 - 02/20/2010	INSPIRE - Winter Science Camp	DST, Govt. Of India, New Delhi
20/07/2009 - 31/07/2009	Geoinformatics for Integrated River Basin Development [GIRBD] - Summer School	MHRD, Govt. Of India, New Delhi.
19/01/2009 - 30/01/2009	Geoinformatics for Integrated Coastal Zone Management Plan [GICZMP] - Winter School	MHRD, Govt. Of India, New Delhi.
26/04/2007	One day workshop on Integrated Coastal Zone Management Plan [ICZMP-2007]	MoEF, Govt. Of India, New Delhi.
24/03/2007	One day awareness programme on Global Positioning System [GPS]	MHRD, TEQIP, NITK, Surathkal.
10/03/2007	One Day Awareness Program on Remote Sensing & Geographic Information System for College Students	MHRD, TEQIP, NITK, Surathkal

02/02/2005 Workshop on Wetland Monitoring and Management” sponsored by TEQIP, conducted in our department. (Coordinators: MHRD, TEQIP, NITK, Surathkal Dr. Arkal Vittal Hegde and **Dr. G. S. Dwarakish**).

Professional Training Received / Summer / Winter Schools attended [06]

Year	Nature of Training	Duration	Organization where training was provided
2010	Summer School on “Field methods and eco-hydrological models for integrated water management in rural areas” sponsored by DAAD, 16 - 29 September 2010, Germany	Two weeks	Department of Hydrology and Water Resources Management, Ecology Center, Kiel, Germany.
2009	Short-term training program on “Isotope Tracer Techniques for Water Resources Development and Management” 15 - 20 June 2009.	One week	CWRDM, Calicut, Kerala, India.
2009	Indo-US Engineering Faculty Leadership Institute. June 29 - July 3, 2009.	One week	Infosys Mysore Center
2008	RISAT-UP Radar Remote Sensing and Applications. 1 - 2 December 2008.	Two weeks	SAC, ISRO, DOS, Ahmedabad, India
2005	Introduction to Statistics using SPSS. 19 January 2005	One day	NITK Surathkal, by SPSS South Asia
2005	GIS training programme. 22 June 2005	One week	ESRI India, Bangalore
2004	Integrated Water Resources Management using Numerical Methods, Remote Sensing and GIS	One week	IIT, Bombay
2004	Planning, Development and Management of Modern Urban Core Infrastructure Solutions for India	Two weeks	NITK, Surathkal
2004	Satellite Oceanography	Two weeks	DOD, ICMAM-PD, Chennai
2004	Computer-Aided 3-D Modelling and Animation	One week	MIT, Manipal
2003	Remote Sensing and Geographic Information System for Resources Management	Two weeks	KREC, Surathkal

2003	Coastal Erosion Areas (CEA)- Protection and Management	Two weeks	NITK, Surathkal
2003	Advances and Latest Trends in Engineering Geology and Geotechnology	Two weeks	NITK, Surathkal
2002	Remote Sensing and Geographic Information System for Resources Management	Two weeks	KREC, Surathkal
2000	Engineering Geology and Geotechnology Role in Country Planning and Development	Two weeks	KREC, Surathkal
2000	Introduction to ArcView and Spatial Analyst	One week	ESRI India, New Delhi
1999	Recent advances in Chemical, Electro-chemical and Nuclear Energy Systems	Two weeks	PES College of Engineering, Mandya
1998	Remote Sensing Applications in Marine Sciences	Two days	Anna University Chennai
1998	Site Investigation Techniques for Civil Engineering Constructions and Development of Engineering Geology and Geotechnology in India	Two weeks	KREC, Surathkal
1997	Quality Assurance in Engineering Education	One week	KREC, Surathkal
1996	Remote Sensing for Land and Water Resources Management	Two weeks	IIT, Kharagpur
1995	P. C. Professional Course	One week	KREC, Surathkal
1995	Digital Image Analysis in the Field of Remote Sensing Technology	Two weeks	RRSSC Bangalore

Summary of R & D Projects

RESPOND project

The coastal zone of Mangalore is acquiring an ever-increasing importance due to its rich ocean resources and favourable condition for the development of port-based major industries. All weather New Mangalore Port Trust (NMPT) is the administrative unit of the port which caters to the needs of large, medium and small-scale industries.

The present study is carried out with a view

- (i) to understand sediment dynamics and interaction of coastal structures with beach morphology,
- (ii) to study the coastal processes in the vicinity of the New Mangalore Port (NMP) breakwaters,
- (iii) to develop an algorithm for the estimation of Suspended Sediment Concentration (SSC) from in-situ and Indian Remote Sensing Satellite (IRS)-P4 Ocean Colour Monitor (OCM) data and
- (iv) to study the change detection of shoreline.

These objectives are addressed using various conventional and satellite data. A 40km stretch of the Mangalore Coast, starting from Talapady in the South and Mulky in the North, along the West Coast of India is the study area.

Survey of India toposheet was used to prepare the base map. The predominant direction of sediment transport was determined by drawing sediment trend matrices based on the statistical parameters of beach face sediments. Sea sledge survey data were used to study the effects of seawalls on beach profile morphology. The performance of breakwaters at NMP was assessed by leadline soundings data. Sea bed sediment data were analysed to detect the source of siltation along the outer approach channels and lagoon of NMP. In-situ measurements in synchronized with the IRS-P4 satellite overpass were used to validate the SSC algorithm developed from OCM data. Shoreline changes were detected using IRS-1A/1B satellite data.

Based on the analysis of conventional and satellite data, it is concluded that the littoral drift in the study area is negligibly small which is supported by the results of other analyses. Net sediment transport along the Mangalore coast is very small. Siltation in the approach channel and lagoon of NMP is due to the offshore-onshore movement of sediments.

The analysis to study the effect of coastal structures with coastal processes shows that seawalls constructed along the Mangalore coast are properly designed and located away from the active zone of the beach and hence they are not affecting the beach profiles and beach recovery processes either in front of it or on the neighbouring beaches. There are no significant changes observed in the bathymetry and shoreline in the vicinity of NMP due to breakwater construction. Analysis of satellite data indicates that there is no large-scale variation in the shoreline configuration, except at the unprotected river mouth. The accuracy of the algorithm developed using IRS-P4 OCM data for the estimation of SSC is satisfactory. Hence, it is concluded that satellite data can be used for studying the coastal processes.

MHRD project

The proposed work mainly concentrates on the nearshore coastal processes of the Mangalore coast. It involves the identification of eroding/accreting critical areas along the Mangalore coast. The performance of coastal structures in the study area will be assessed in the proposed study. The Suspended Sediment Concentration (SSC) model relating remotely sensed data and in-situ data will be developed by considering state-of-the-art technology. It is also proposed to develop a model, which gives the vertical distribution of SSC along the Mangalore coast. The sediment

dynamics in the vicinity of all-weather New Mangalore Port (NMP) are proposed to find out the main reason for the siltation problem in the approach channel and lagoon of NMP. The movements and distribution of dredged material from the dumping site will be tackled through Sediment Trend Analysis (STA). The study will be carried out using both conventional and remotely sensed data and other attribute information of the study area. The nearshore processes information system for the study area will be developed under a Geographical Information System (GIS) environment. This gives online information about the long-term and short-term shoreline configuration, the effect of coastal structure on the coastal processes, surface as well as vertical distribution of SSC and sediment dynamics in the vicinity of the NMP approach channel and lagoon.

MOEF project

The main objectives of this project are:

1. To identify the critical erosion areas of the Karnataka coast using RS & GIS.
2. To prepare area area-specific management plan for mitigation of erosion along the Karnataka Coast.
3. To develop a Critical Erosion Areas Information System (CEAIS) in a GIS environment.

The following are the sub-components of the project work:

- i. Shoreline Change detection using Topo sheets and multi-date Remotely Sensed data.
- ii. Analysis of the data to identify and classify the erosion-prone areas as critical, moderate, and zero-erosion areas.
- iii. Land use/Land cover change detection and analysis.
- iv. Arriving at Area-specific management of erosion areas based on the land use/ land cover analysis.
- v. Integrating all the data generated into the GIS environment.
- vi. Development of a Critical Erosion Areas Information System (CEAIS).
- vii. Final Document / Report generation.

ICMAM-PD, DOD project

This project mainly concentrates on the dynamics of the river mouth along the Karnataka Coast. As an experimental basis, only the Netravati-Gurpur river mouth is selected in the beginning. All the available data such as wind velocity & direction, wave direction, currents, tides, sediment concentration and its distribution, bathymetric details, beach profile, the quantity of sediment brought in by the rivers, high resolution remotely sensed data at frequent intervals will be used to understand the river mouth dynamics and shoreline configuration at Netravati-Gurpur river mouth. Based on the experience gained while conducting the present study for the Netravati-Gurpur river mouth, the same study will be extended to the remaining river mouths of the Karnataka Coast. For this project, major equipments will be given by ICMAM-PD, DOD, Pallikarani, Chennai. This project is challenging since it involves a lot of field data collection both in the estuary as well as in the vicinity of the Netravati-Gurpur River on the ocean side.

DST Project

The DST project titled “RS & GIS Application for Sustainable Management of Sacred Groves” in Kodagu District” is basically for the development of a database for the Sacred Groves in

Kodagu district. The database includes location details, the areal extent of the sacred groves, monitoring agency, temple name and other details, threats to the sacred groves and some development plans for the existing sacred groves. The actual extent of the sacred groves is extracted through the analysis of high-resolution IRS satellite data, using ERDAS Imagine 9.3 software and analysed in Arc View- Master lab kit GIS environment.

RESPOND Project

The second RESPOND project, sponsored by the Indian Space Research Organisation (ISRO) under the RESPOND programme titled “Analysis of Satellite Derived Wind and Wave Parameters of Karnataka Coast”. For the execution of this project, ENVISAT data was purchased from ESA. The programme was written in FORTRAN to extract the wave and wind information. The different activities completed under this project include

- a) Understanding the SAR concepts
- b) retrieval and validation of Wave spectra and Wind speed from SAR
- c) Algorithm to derive level 2 from Level 1 data of wave mode data
- d) preparation of wave spectra and wind speed map for the new datasets purchased from ESA
- e) Completion of the algorithm for wave mode data.

Consultancy works undertaken/ Industry interaction

Only the departmental testing and consultancy works related to strength of materials lab (tension test, bending & re-bending test) and fluid mechanics lab (Calibration of pressure gauges and watermeter) have been undertaken.

I am regularly interacting with New Mangalore Port Trust (NMPT), Panambur, India Meteorological Department (IMD) observatory, Panambur; Minor Irrigation Department, Public Works Department, Port & Harbour Sub-division, Mangalore; KERS, Mangalore Sub-division; RRSSC, KSRSAC, Bangalore; MPT, Goa; IIT Madras, IIT Mumbai, IIT Kharagpur, IIT Delhi, NIT- Calicut, Trichi, Warangal, Nagpur, Surath, Raipur, Rourkela, Pandichery, Goa, NIO Goa; NIOT Chennai; IRS, Anna University, Chennai; GEC, Farmagudi, Ponda, Goa, Anna University, Chennai, Bangalore University, Bangalore, Mangalore University, Mangalore, VTU, Belgaum, College of Engineering, Trivendrum, etc.

Experience in Administrative Positions, Curriculum and Lab Development, Student Welfare, Professional and Outreach Activities

Administrative Positions

Dean Academic	National Institute of Technology Karnataka, Surathkal
Dean Planning and Development	National Institute of Technology Karnataka, Surathkal
Head of the Department	Water Resources and Ocean Engineering, (Formerly Dept. Of Applied Mechanics and Hydraulics) NITK, Surathkal
Faculty In-Charge	IIP Cell, NITK Surathkal
Deputy Co-ordinator	NIT Goa
Chief Warden [In-charge]	NIT Goa, GEC Campus, Ponda, Goa
Hostel block Warden	NITK Hostels for two terms
Associate Dean (Students' Welfare)	NITK Surathkal
Member	SC/ST Cell, NITK Surathkal
Member	Health Care Centre, NITK Surathkal
Board of Directors	Consumer's Society, NITK Surathkal
Secretary	Consumer's Society, NITK Surathkal
Board of Directors	Credit Society, NITK Surathkal
Member	Provident Fund Committee, NITK Surathkal
Member	Fire Committee, NITK Surathkal
Member	AIEEE Counseling & Admission, NITK Surathkal [2004-05]
Dy. In-charge	Help Centre & Admission Centre, AIEEE' 10 & AIEEE ' 11, NIT Goa
Member	AIEEE Counseling & Admission NIT Goa [2010-11]
Member	Institute Staff Selection Committee, NITK & NIT Goa
Member	Institute Magazine Committee, Vitruvian (Kannada Section)
Faculty In-charge	MUNDAABHIVRUDI SAMANYA SAMITHI [MASS], to develop the Munda Village, under Services to the Community under ENGINEER' 09.

Academics

Member	RPAC
Member	DRPC, DPGC and DUGC
Secretary	DPGC, DRPC
Faculty in-charge	Department timetable for three years
Faculty Advisor	CIVIL Engineering Branch M.Tech. [Marine Structures, RS & GIS]
Faculty In-charge	RS & GIS and Departmental Computer Labs
Member	DAAB committee
Secretary	Civil Engineering Association
Faculty Advisor	First year and Second year - NIT Goa

Others

Co-coordinator	INSPIRE- Winter Science Camp
Co-coordinator	NURTURANCE Programme for NTS Awardees
Co-coordinator	RS & GIS programme
Co-coordinator	GPS programme
Co-coordinator	GICZMP'09, GIRBD'09 & ETMS'10 and ETM'11 at NIT Goa
Member	Annual Convocation
Member	Golden Jubilee Celebrations
Co-convener	Transportation Committee, INCHOE'2007
Convener	Transportation Committee, SwaRM'2010
Member	Stage Committee ISTE Annual Convention, Indian Engineering Congress
Member	ENGINEER [Technical Fest], INCIDENT [Cultural Fest], CRESCENDO [Inter-year cultural competition]
Member	World Coastal Clean-up Day
Coordinator	World Water Day, World Wetland Day and World GIS Day
Returning Officer	Student's Union Elections
Faculty Advisor	Music Club, Kannada Vedike, Artist forum, Ganesha Festival, Holi, Deepavali, New Year's Day celebration
Faculty Advisor	Civil Engineering Model Competitions

Secretary

Staff Recreation Club

Performed in several Kannada Dramas namely Deepadinda Deepa Hacha, Panchabootha, Panchabootha'08, Panchabootha'25 , Devarapalayana

Awards / Recognitions

2025 Awarded **Best Paper** under the theme “Climate Change, Hydroclimate & Drought” presented in International Conference on Wetlands and Water Resources for Sustainable Development held at National Institute of Technology Patna during 29th-31st December, 2025.

Awarded **Best Paper Presentation** for “Assessing the Impact of Rainfall and Groundwater Abstraction on Groundwater Levels Using Statistical Analysis” presented in the Symposium on River Health Evaluation and Protection held on 29th and 30th December 2025.

2024-25 Board of Examiners (BoE), PG, NIE, Mysuru, Karnataka.

2023 Awarded **Best Technical Paper** for “Streamflow Estimation using Deep Learning Approach (CNN and LSTM) for Hemavathi River Basin, Karnataka, India” presented at New Horizons in Civil Engineering (NHCE-2023), October 13-14, 2023 MIT Manipal.

Awarded **Best Technical Paper** for “Comparative Analysis of Topographic Factor (LS Factor) Estimation Methods for Soil Erosion Risk Assessment in the Netravati Watershed, India”, presented at International Conference on Sustainable Infrastructure: Innovation, Opportunities and Challenges (SIIOC-2023), April 20-21, 2023, at NITK, Surathkal.

2021 Awarded **Best Presentation** for “Study of shoreline change along Kasaragod district in Kerala, West Coast of India”, presented at HYDRO 2020 International, March 26-28, 2021, NIT Rourkela.

2018 Awarded **Best Session’ s Paper** for “Shoreline change threat to coastal zone: A case study on Karwar coast”, presented at 2nd International Conference on Climate Change (ICCC 2018), February 18-19, 2018, Srilanka.

2016 Awarded **Best Paper** for “Coastal Inundation Study Using Remote Sensing”, presented at 10th International Symposium on Lowland Technology September 15-17, 2016 at Mangalore, India.

Received **Venus International Faculty Award for the year 2016**, instituted by Venus Education Foundation, Chennai, in recognition of outstanding contribution in the field of Coastal Engineering Sciences.

2015 Guest Editor – Elsevier Aquatic Procedia-ICWRCOE‘15

Received **Young Scientist Award** and **Best Paper Award** for the paper titled “Study of Land Use/Land Cover Dynamics through Classification Algorithms for

Harangi Catchment Area, Karnataka State, India” presented at the International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE '15), 12-14 March 2015 organised by Department of Applied Mechanics and Hydraulics, NITK Surathkal.

2014 Board of Examiners (BoE), PG, UVCE, Bangalore, Karnataka.

2013 Received **Prof. Satish Dhawan Young Engineers State Award** for the year **2013**, instituted by the Government of Karnataka in recognition of outstanding contribution in the field of Engineering Sciences.

Guest Editor-In-Chief for Special Issue on RS & GIS Applications, International Journal of Earth Sciences and Engineering

Awarded **Best Young Scientist** for “Land use/ Land cover changes along D. K. Coast, West coast of India using Remote sensing and GIS ” which was presented during the 8th International Congress on climate change, Territorial Classification and Socio-economic Crisis, organised by Bharathidasan University, Tamilnadu and National Polytechnic Institute, Mexico, Bharathidasan University, Tamilnadu, 23rd-27th April 2013.

Serving as a **Secretary** of Indian Society of Geomatics [ISG]

Executive Member, Kodagu- Dakshina Kannada- Udupi Engineers’ Association

2010 Awarded **Best Paper** for “Sediment Characteristics of Dakshina Kannada Coast, West Coast of India” which was presented during the International Conference on Earth Sciences and Engineering, held at Hyderabad, on 21st August 2010.

Selected as Board of Examiners (BoE), PG, UVCE, Bangalore, Karnataka.

Selected as Board of Examiners (BoE), VTU, Belgaum, Karnataka

Selected as Board of Examiners (BoE), Anna University, Chennai, Tami Nadu.

Selected as Board of Examiners (BoE), Coimbatore Institute of Technology, Coimbatore, Tamil Nadu.

Selected as one of the Committee Members of the Board of Studies (BoS), for NIE, Mysore and NMAMIT, NITTE University, Nitte, and College of Engineering, Thiruvananthapuram.

One of the Editors of International Journal of Earth Sciences and Engineering

Reviewer of International Journal of Earth Sciences and Engineering, India

Reviewer of International Journal of Coastal Research, USA

Reviewer of International Journal of Imaging

Reviewer of Climate Change



Received **Prof. Satish Dhawan Young Engineers State Award for the year 2013**, instituted by the Government of Karnataka in recognition of outstanding contribution in the field of Engineering Sciences.



Received **Venus International Faculty Award for the year 2016**, instituted by Venus

Education Foundation, Chennai, in recognition of outstanding contribution in the field of Coastal Engineering Sciences.



Recognized as **IUCEE Faculty Fellows** for contributions to improving the quality and global relevance of engineering education in India in **The Fourth International Conference on Transformations in Engineering Education (ICTIEE 2017)**

Extra Curricular Activities

Reviewed the textbook titled “An Introduction to Geographic Information Technology” [ISBN: ISBN 81-88237-66-3] written by Sujith Choudhury, Deepankar Chakraborti and Suchandra Choudhury, published by I.K. International Publishing House Pvt. Ltd.

Identified as one of the resource persons in the area of remote sensing, GIS and image processing and delivered invitation talks in several institutes and schools. In addition to this, I have also given lectures in high schools both in Kannada and English, about remote sensing, GIS and GPS

Execution of all the works related to counselling, admission, academic, administration, hostel affairs, and students’ affairs at NIT Goa, under the able guidance and support from the Director, NITK and other Administrative officials of NITK Surathkal and Goa College of Engineering, Ponda, Goa, in addition to taking Engineering Mechanics subject.

Serving as a Secretary of Indian Society of Geoinformatics [ISG]

Chairman of one of the technical sessions of ICOE’09, held at IIT Madras, India, 1-5th February 2009.

Co-Chairman of one of the technical sessions of SwaRM'10 held at NITK, Surathkal, India, 7th -9th January 2010.

Extracurricular activities- Drama, Sports, Singing, Folk Songs

Executive Member, Kodagu- Dakshina Kannada- Udupi Engineers' Association

One of the panel of judges for Dakshina Kannada – Udupi Vijgana Mela held at Vidyadayini School

Served as one of the judges for various events such as Kannada light music, folk dance/songs, Kannada drama etc., held in D. K. District

Chairman of one of the technical sessions of INCHOE'14, held at NIO, Goa, India, 5th – 7th February 2014.

List of Mini Projects/ Technical Seminars Guided (M.Tech/Ph.D.)

Wetland Management using using remote sensing

Classification of rain-fed and irrigated crops using remote sensing

Indian Satellite Family

Integrated Coastal Zone Management (Ph.D. Scholar).

Satellite Launch Vehicles past, present & future

Sediment Trend Matrix

Granulometric analysis of Netravati- Gurpur rivers

Landuse/Land cover map preparation by DIP

Nearshore Bathymetric Study by using RS data

Coastal pollution

Satellite Oceanography

Space Shuttle

International Space Station

Global Positioning System [GPS]

Variable Source Area Watershed Model

River Basin Soil Erosion Model [MUSLE]

Interlinking of Rivers

Numerical modelling to estimate groundwater contamination

Crime analysis using GIS

Littoral drift along D.K. Coast

Urban Hydrology

LU/LC change detection using high-resolution RS data

Dredging Equipment for Deep and Shallow Water Marine Applications

Technical Talks Delivered

Geoinformatics for Coastal & Water Resources Engineering	Workshop on Geoinformatics 29 th June 2026 Department of Civil Engineering, UVCE Bengaluru
Research & Reward	Faculty Development Programme for the academic year 2026–2027 11 th June 2026, St Aloysius (Deemed to be University), Mangalore
Geo-informatics in Coastal Engineering	HYDRO International 2025 - 30 th International Conference on Hydraulics, Water Resources, River and Coastal Engineering, December 18-20, 2025, National Institute of Technology Rourkela, Odisha, India.
Coastal Aquifers in the Context of Integrated Coastal Zone Management	Sustainable Groundwater Management for Water Security, June 21, 2024, held at the Karnataka Science and Technology Academy (KSTA) Office.
Role of Geoinformatics in Coastal Engineering	New Horizons in Civil Engineering (NHCE-2023) October 13-14, 2023 MIT Manipal.
Modes of Sediment Transport	Training Programme for KERS Engineers, Mysore.
Fundamentals of Fluid Mechanics, Selection of Turbines & Pumps	Transfer of Technology to Rural Areas, KREC, Surathkal
Performance of Seawalls along D.K.Coast	Departmental Technical Talk, KREC, Surathkal.
Decision Support System for civil engineering problems	During Workshop, Institute of Remote Sensing, Anna University, Chennai
Applications of RS & GIS for Coastal Engineering	AICTE / ISTE - STTP, KREC, Surathkal.
Sediment Dynamics along Mangalore Coast through RS & GIS.	Engineer' s Day, Institute of Engineers, Mangalore Chapter, Mangalore.
Fundamentals of Digital Image Processing	AICTE / ISTE - STTP, KREC, Surathkal
Digital Image Processing Methods & Applications	AICTE / ISTE - STTP, KREC, Surathkal
Study of Suspended Sediment Concentration (SSC) and its distribution along Mangalore Coast using RS & GIS.	AICTE / ISTE - STTP, KREC, Surathkal
Civil Engineering Applications of RS & GIS.	Engineer' s Day, MIT, Manipal.

Physics of Remote Sensing	NNRMS - STTP, Kongu Engineering College, Erode, TN.
Platforms and Sensors for Satellite Remote Sensing.	NNRMS - STTP, Kongu Engineering College, Erode, TN.
Visual Interpretation Techniques of RS data.	NNRMS - STTP, Kongu Engineering College, Erode, TN.
Digital Image Processing of RS data.	NNRMS - STTP, Kongu Engineering College, Erode, TN.
Fundamentals of Microwave Remote Sensing and its Applications.	NNRMS - STTP, Kongu Engineering College, Erode, TN.
Applications of Remote Sensing.	RSIP- 03, Kongu Engineering College, Erode, TN.
RS and GIS & Visualisation Capabilities for Interlinking of Rivers.	National Seminar on Interlinking of Rivers, UVCE, Bangalore.
Integrated Coastal Zone Management Plan (ICZMP) through RS & GIS - An Indian Scenario	National Seminar on National Resources Management for Sustainable Development, UVCE, Bangalore.
Bird' s Eye view of RS and GIS	STTP - AICTE - ISTE, IIT, Mumbai.
Fundamentals of Remote Sensing and GIS	STTP - AICTE - ISTE, College of Technology G. B. Pant University and Technology, Pantnagar, Uttaranchal State
Visual and Digital Image Processing	STTP-AICTE-ISTE, College of Technology; G. B. Pant University and Technology, Pantnagar, Uttaranchal state
Application of RS and GIS for Natural Resources Management	STTP - AICTE - ISTE, College of Technology G. B. Pant University and Technology, Pantnagar, Uttaranchal state
Remote Sensing Application in Coastal Engineering	Awareness programme on RS & GIS application in civil engineering, MIT, MAHE, Manipal
Applications of RS & GIS for Marine Pollution	World Environment Day, NITK, Surathkal
Application of RS & GIS for Infrastructure Development in India	STTP - AICTE - ISTE, Applied Mechanics Department NITK, Surathkal
Land use/land cover change Detection Analysis: An Indian Scenario	NASA-CWRDM-LU/LC Internation meet, CWRDM, Calicut
Tsunami Prediction and Mitigation measures	National workshop on Natural disasters, mitigation and management, NIE, Mysore
RS & GIS Applications in Natural Resources Management	National workshop on Geoinformatics, Mysore University, Mysore
RS & GIS Applications in Water Resources Engineering	National Conference on New Horizons in Civil Engineering - NHCE 2013, MIT Manipal

Fundamentals of Microwave Remote Sensing and its Applications in Coastal Engineering	Dept. of Civil Engineering, College of Engineering, Thiruvananthapuram
RS, GIS & GPS Applications in Civil Engineering	Christ The King College of Engineering, Coimbatore, Tamil Nadu
RS & GIS A RS & GIS Applications in Water Resources Engineering	One-day Workshop on Application of RS & GIS in Civil Engineering, Faculty of Engineering, EBET Group of Institutions, Erode, Tamil Nadu
Remote Sensing and GIS Applications in Sacred Groves Information System and Management- A Case Study of Kodagu District	International Conference on Conserving Biodiversity for Sustainable Development, 16-18 August 2013, NIT, Rourkela, Odisha
RS & GIS Applications in Civil Engineering	National Workshop on Civil Engineering Challenges in 21st Century, MITE, Moodabidri, Karnataka
Geoinformatics in Coastal Engineering	Shristi 2K14, LBS College of Engineering, Kasaragod, Karnataka
Tsunami Generation and its Mitigation Measures	ACCE Mangalore Chapter, Mangalore
RS & GIS A RS & GIS Applications in Water Resources Engineering	ACCE Week long Programme, KVG College of Engineering, Sullia, Karnataka, India
Geoinformatics for Civil Engineering	INTI International University, Kaula Lumpur, Malaysia
Remote Sensing and GIS in Civil Engineering	3 days technical fest SRISHTI 2K14, during 13,14 and 15 March 2014, LBS Collge of Engineering, Kasaragod, India
Effective Teaching Methodologies/ Engineering Mechanics	Centre for Continuing Technical Education, Karnataka
Coastal Erosion along Dakshina Kannada Coast	Recent Challenges in Atmospheric and Earth Sciences, 27-30 December 2014, Dept. of Chemical Engineering, NITK, Surathkal
Harnessing Energy From the Ocean	Renewable Energy Sources and Emerging Technologies (RESET), 1-5 September 2014, PESCE, Mandya
Geoinformatics in Integrated Coastal Zone Management Plan for Undived Dakshina Kannada Coast	Special lecture series programme on Integrated Coastal Zone Management for PG students,13-14 November 2014, Karnataka Veterinary, Animal and Fisheries Sciences University, College of Fisheries, Mangalore
Geoinformatics in Coastal and Water Resources Engineering	1st International Conference on Ingenious Technologies and Sustainable Developments in

	Civil Engineering, 8th October 2014, Noorul Islam University, Tamilnadu
Application of RS & GIS in Mining	Short-term course on Advances and Latest Developments in Mining Geology and Rock Mechanics, 2-4 April 2014, Dept. Of Mining, NITK, Surathkal
Applications of Remote Sensing and GIS in Coastal/Ocean Engineering	For M.Tech. Students, Dept. of Civil Engineering, College of Engineering, Thiruvananthapuram, 6th November 2014
Fundamentals of Remote Sensing and GIS	Short-term training programme on Introduction to CAD/CAM and STAAD, 3-7 July 2014
Digital Image Processing- A Game of Numbers	Short-term training programme on Introduction to CAD/CAM and STAAD, 3-7 July 2014
RS, GIS, GPS and Conventional Survey in Coastal Engineering	3 days training on advanced survey, NAMIT, Nitte, 29-30 July 2014
Advanced Coastal Survey	Three days State level Workshop on Advanced Surveying and Mapping Techniques, organised by AIET, Moodbidri, 26th - 28th February 2015
Selection of suitable Soil and Water conservation Structures through RS & GIS- A Case Study	One day National Workshop on Management Techniques of Rainwater Harvesting- Artificial Recharge Structures D.K. and Udupi Districts of Karnataka conducted by MITE, Moodbidri, 18th April 2015
Ocean Energy	Invited talk at Srinivasa Institute of Technology, Mangalore on 11.09.2015.

Countries Visited

Country visited	Period of Visit		Purpose of visit
	From	To	
Colombo, Sri Lanka	13/02/2018	18/02/2018	To attend and present paper in the 2nd International Conference on Climate Change 2018 ICCC.
McGill University, Montreal, Canada	26/10/2015	03/11/2015	Research interaction with Prof. Shiv O. Prasher and academic and research collaboration and initiation of MoU and GIAN program.
Kuala Lumpur, Malaysia	14/04/2014	17/04/2014	To attend and present paper in the International Conference 2014 IEEE Region 10.
University of South Carolina, USA	21/02/2012	04/03/2012	For research interaction with the Professors of Dept. Of Geological Sciences & Marine Science Program, USC, USA
Kiel, Germany	13/09/2010	02/10/2010	To attend the Summer School on “Field methods and eco-hydrological models for integrated water management in rural areas” held at Kiel University
Kagoshima, Japan	20/05/2008	03/07/2008	For research interaction with the Professors of Ocean Civil Engineering, from Kagoshima University, Japan.
Florence, Italy	15/09/2007	21/09/2007	To attend and present paper in the International Conference SPIE’ 07.

Computer Skills

Image processing software	ERDAS Imagine 9.0 - 9.2, ENVI, EASI / PACE
GIS Software Professional, GRAM	ARC/INFO, ARCVIEW, ARC GIS, Geomedia
Marine Modeling software	MIKE 21, OCM DAS
Statistical Analysis Tool	SPSS
Operating System	Windows, UNIX
Others	MS Office

Name and Address of Professional References

Dr. Ramesh H.

Professor & Head,
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