Valliboina Venkateswarlu – Curriculum Vitae



Dr. Valliboina Venkateswarlu

Assistant Professor, Department of Civil Engineering,

National Institute of Technology Srinagar, Jammu & Kashmir.

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Email ID: venki@nitsri.net **Scopus ID:** 57205483270 **H-Index - 12**

Orcid ID: https://orcid.org/0000-0002-7287-4693 **No. of Citations - 242**

Research Gate ID: https://www.researchgate.net/profile/Valliboina_Venkateswarlu

Scopus Author ID https://www.scopus.com/authid/detail.uri?authorId=57205483270#

Research Area: Renewable Energy, Coastal Structures and Porous Media Flow.

Career objective:

Aiming to establish myself in the field of education, to work for an institution that offers career growth, chance to share and improve my research knowledge. I would like to collaborate and share my research knowledge with reputed authors/scientists throughout the world and, to prove myself as the best candidate in the institution.

Qualification:

1.	Ph.D.	Dept. of Water Resources and Ocean Engineering, National Institute of Technology Karnataka, Surathkal. (NITK)	2016-2020
		Thesis: Gravity wave damping by stratified porous structures (Ph.D. Degree awarded date 14.08.2020)	
2.	M. Tech (H & WRE)	Sri Venkateswara University College of Engineering, S V University, Tirupati.	2013-2016
3.	B. Tech (Civil Engineering)	G. Pulla Reddy Engineering College, Sri Krishna Devaraya University, Kurnool.	2009-2013
4.	Intermediate	Sri Siddardha Junior College, Buchireddy Palem. Board of Intermediate Education, Andhra Pradesh.	2007-2009
5.	SSC	Z P P High School, Atmakur West, Board of Secondary Education, Andhra Pradesh.	2007

Experience:

Sl. No	College Name	Designation	Period of Working
1.	National Institute of Technology Srinagar	Assistant Professor	12-09-22 to Till date
2.	Bapatla Engineering College	Assistant Professor	17-08-20 to 06-09-22

Projects Submitted/Granted:

Sl. No	Title of the Project	Budget	Funding Agency	Role	Current Status
1.	Inverted Trapezoidal Breakwater (EV05/23)	2800 KD	Kuwait University	Co-PI	Approved
2.	Arc-Plate Breakwater (EV03/23)	3000 KD	Kuwait University	Co-PI	Approved

Publication Index:

Sl. No	Status of the Journal	During Ph.D.			Post Ph.D.			Total
		Scopus	SCI	Others	Scopus	SCI	Others	
Research Works Published in Journals/Conferences								
1.	International Journals	2	10	0	0	14	0	**26**
2.	National Journals	0	0	0	0	0	0	**0**
3.	International Conferences	0	0	3	0	0	7	**10**
4.	National Conferences	0	0	5	0	0	1	**6**
Research Works Under review in Journals/Conferences								
5.	International Journals	0	0	0	0	8	0	**8**

Indian Patents Filed/ Published:

Sl. No	Title of the Patent	Patent Number	Date of filing	Current status
1.	Pile supported Multi-layered Porous Media	202241037005	28-06-2022	First Examination Report is received
2.	Stratified Wave Reflector	202241037698	30-06-2022	First Examination Report is received

International Journals:

Research Works Published in NIT Srinagar:

1. V. Kumaran, **V. Venkateswarlu,** Raja Pandi, R., and Nishad, C. S. (2024). Hydrodynamic Performance of an Inverted Trapezoidal Retrofitted Floating Breakwater, **Journal of Offshore Mechanics and Arctic Engineering, Transactions of American Society of Mechanical Engineers, ASME,** (Scopus and SCI indexed Journal, IF = 1.760). Q2 Journal. DOI: 10.1115/1.4065772 (ISSN: 08927219, 1528896X).

2. Srinu Dasari, **V. Venkateswarlu,** K.G. Vijay, and M.A. Atmanad (2024). Hydrodynamic analysis of oscillating water column in the presence of seabed undulations. **Journal of Marine Science and Technology, Springer,** (Scopus and SCI indexed Journal, **IF = 3.25**) Q1 Journal, DOI: 10.1007/s00773-024-00994-5 ISSN: 09484280, 14378213.

3. **Venkateswarlu, V.,** Vijay, K. G., Nishad, C. S., and Behera, H. (2024). Oblique wave trapping by sinusoidal rippled barrier of finite thickness placed on closely spaced semi-circular seabed. **Physics of Fluids, American Institute of Physics,** 36(1). 1-22, Q1 Journal, DOI: 10.1063/5.0179239 (Scopus and SCI indexed Journal, ISSN: 1070-6631 **IF = 4.6**).

4. E. Dhanunjaya, **V. Venkateswarlu** and E. Sanjeeva Rayudu (2024). Oblique wave trapping by periodic array of two-layer pile rock breakwaters placed on uneven seabed. **Coastal Engineering Journal, JSCE,** Taylor and Francis. (ISSN: 05785634, 17936292) (Scopus and SCI indexed Journal, **IF = 3.2**). DOI: 10.1080/21664250.2023.2281758, November 2023. 1-19.

5. E. Dhanunjaya, **V. Venkateswarlu** and E. Sanjeeva Rayudu (2024). Hydrodynamic Performance of an Array of Stratified Pile Rock Breakwaters Placed on Elevated Seabed. **Journal of Offshore Mechanics and Arctic Engineering,** Transactions of American Society of Mechanical Engineers, **ASME,** 146 (4), 1-12, (ISSN: 08927219, 1528896X), (Scopus and SCI indexed Journal, **IF = 1.760**). Q2 Journal, (In Press). DOI: 10.1115/1.4064188 November 2023.

6. E. Dhanunjaya, **V. Venkateswarlu** and E. Sanjeeva Rayudu (2023). "Oblique wave trapping by a permeable wall breakwater connected with thick surface porous layer". **Ships and Offshore Structures,** Taylor and Francis, 1-16, Scopus and SCI indexed Journal, **IF = 1.934**, DOI: 10.1080/17445302.2023.2195241, (ISSN: 21914281, 2193567X) Q1 Journal. March 2023.

7. **V. Venkateswarlu,** E. Sanjeeva Rayudu, E. Dhanunjaya, and K.G. Vijay, (2023). Wave action analysis of multiple bottom fixed semi-circular breakwaters in the presence of a floating dock. **Journal of Offshore Mechanics and Arctic Engineering,** Transactions of American Society of Mechanical Engineers, **ASME.** 145(6), 1-11. DOI: 10.1115/1.4062114 (ISSN: 08927219, 1528896X) (Scopus and SCI indexed Journal, **IF = 1.760**). Q2 Journal. March 2023.

Research Works Published in Bapatla Engineering College:

8. **V. Venkateswarlu,** K.G. Vijay, C. S. Nishad and T. Sahoo (2022). "Gravity wave scattering by retrofitted circular breakwaters using dual boundary integral formulation'', **Ocean Engineering,** Elsevier, 265, 1-21, (Scopus and SCI indexed Journal, **IF = 4.372**), DOI**:** 10.1016/j.oceaneng.2022.112259, (ISSN: 00298018) Q1 Journal. September 2022.

9. Praveen, K. M., **Venkateswarlu, V.,** and Karmakar, D. (2022). 'Wave transformation due to finite floating elastic plate with abrupt change in bottom topography'. **Ships and Offshore Structures,** Taylor and Francis, 17(8), 1824-1842. (Scopus and SCI indexed Journal, **IF = 1.934**). DOI: 10.1080/17445302.2021.1946308 (ISSN: 17445302, 1754212X) Q1 Journal. July 2021.

10. K.G. Vijay, **V. Venkateswarlu** and C. S. Nishad (2021). "Wave scattering by inverted trapezoidal porous boxes using dual boundary element method". **Ocean Engineering**, Elsevier, 219, 1-13, 108149, DOI: 10.1016/j.oceaneng.2020.108149, (Scopus and SCI indexed Journal, **IF = 4.372**). (ISSN: 00298018) Q1 Journal. May 2021.

11. **V. Venkateswarlu,** Vijay, K. G., Raja Pandi, R., and Nishad, C. S. (2021). "Wave trapping efficiency of a flexible membrane near a partially reflecting seawall". **Journal of Offshore Mechanics and Arctic Engineering,** Transactions of American Society of Mechanical Engineers. 143(5): 051302, 1-11, (Scopus and SCI indexed Journal, **IF = 1.760**). DOI: 10.1115/1.4050058, (ISSN: 08927219, 1528896X) Q2 Journal. March 2021.

12. **V. Venkateswarlu,** K. M. Praveen, K.G. Vijay, K. Anil, and D. Karmakar (2021). "Oblique wave interaction with a two-layer pile-rock breakwater placed on elevated bottom". **Ships and Offshore Structures,** Taylor and Francis, 17(4), 852-865, DOI: 10.1080/17445302.2021.1880183, (Scopus and SCI indexed Journal, **IF = 1.934**). (ISSN: 17445302, 1754212X) Q1 Journal. February 2021.

13. **V. Venkateswarlu,** K.G. Vijay and C. S. Nishad (2021). **"**Iterative dual boundary element analysis of a wavy porous plate near an inclined seawall". **Ocean Engineering**,

Elsevier, 235, 1-15, DOI: 10.1016/j.oceaneng.2021.109242 (Scopus and SCI indexed Journal, **IF = 4.372**). (ISSN: 00298018) Q1 Journal. May 2021.

14. K.G. Vijay, **V. Venkateswarlu** and T. Sahoo (2021). "Bragg scattering of surface gravity waves by an array of submerged breakwaters and a floating dock". **Wave motion,** Elsevier, 106, 1-20, DOI: 10.1016/j.wavemoti.2021.102807 (Scopus and SCI indexed Journal, **IF = 2.02**). (ISSN: 01652125) Q2 Journal. July 2021.

Research Works Published in NITK Surathkal:

15. Praveen, K. M., **Venkateswarlu, V.,** and Karmakar, D. (2022). "Hydroelastic response of floating elastic plate in the presence of vertical porous barriers". **Ships and Offshore Structures, Taylor and Francis,** 17(2), 457-471, (Scopus and SCI indexed Journal, **IF = 1.934**). DOI: 10.1080/17445302.2020.1835050 (ISSN: 17445302, 1754212X) Q1 Journal. Nov 2020.

16. V. Venkateswarlu., K.M. Praveen and Karmakar, D. (2021). "Surface gravity wave scattering by multiple energy absorbing structures of variable horizontal porosity". **Coastal Engineering Journal, JSCE,** Taylor and Francis, 62(4), 504-526. DOI: 10.1080/21664250.2020.1794274 (Scopus and SCI indexed Journal, **IF = 3.2**). (ISSN: 05785634, 17936292) Q1 Journal. July 2020

17. Vijay K.G, **V. Venkateswarlu** and D. Karmakar (2020). "Scattering of gravity waves by multiple submerged rubble-mound breakwaters". **Arabian Journal for Science and Engineering,** Springer 45(10), 8529-8550. (Scopus and SCI indexed Journal, **IF= 2.807**). DOI: 10.1007/s13369-020-04767-1 (ISSN: 21914281, 2193567X) Q1 Journal. July 2020.

18. V. Venkateswarlu and D. Karmakar (2020). "Gravity wave trapping by series of horizontally stratified wave absorbers away from seawall". **Journal of Offshore Mechanics and Arctic Engineering, Transactions of ASME,** 142(6) 061201-13, DOI: 10.1115/1.4047104 (Scopus and SCI indexed Journal, **IF= 1.760**). (ISSN: 08927219, 1528896X) Q2 Journal. April, 2020.

19. V. Venkateswarlu and D. Karmakar (2020). "Wave motion over stratified porous absorber combined with seaward vertical barrier". Proceedings of the Institution of Mechanical Engineers, Part M: **Journal for Engineering and Maritime Environment,** SAGE Publications, 234(4), 830-845. (Scopus and SCI indexed Journal, **IF = 1.322**) DOI: 10.1177/1475090220912643 (ISSN: 14750902) Q2 Journal. February 2020.

20. V. Venkateswarlu and D. Karmakar (2020). "Wave transformation due to barrier-rock porous structure placed on step-bottom". **Ships and Offshore structures**, Taylor and Francis, 15(8), 895-909, DOI: 10.1080/17445302.2019.1694296 (Scopus and SCI indexed Journal, **IF = 1.934**). (ISSN: 17445302, 1754212X) Q1 Journal. November 2019

21. V. Venkateswarlu and D. Karmakar (2020). "Significance of seabed characteristics on wave transformation in the presence of stratified porous block". **Coastal Engineering**

Journal, *JSCE*, Taylor and Francis, 62(1), 1-22. (Scopus and SCI indexed Journal, **IF = 3.2**). DOI: 10.1080/21664250.2019.1676366 (ISSN: 05785634, 17936292) Q1 Journal. September 2019

22. **V. Venkateswarlu** and D. Karmakar (2020). "Influence of impermeable elevated bottom on the wave scattering due to multiple porous structures". **Journal of Applied Fluid Mechanics,** 13(1), 371-385. (Scopus and SCI indexed Journal, **IF = 1.405**). DOI: 10.29252/jafm.13.01.29890 (ISSN: 17353572, 17353645) Q2 Journal. May 2019

23. **V. Venkateswarlu** and D. Karmakar (2019). "Wave scattering by vertical porous block placed over flat and elevated seabed". **Marine Systems and Ocean Technology,** Springer, 14(2-3), 85-109, (Scopus indexed Journal). DOI: 10.1007/s40868-019-00058-z (ISSN: 1679396X, 21994749) Q2 Journal. June 2019

24. **Venkateswarlu** and D. Karmakar (2021). "Numerical investigation on the wave dissipating performance due to multiple porous structures". **ISH Journal of Hydraulic Engineering,** Taylor and Francis, 27, 202-219, (Scopus indexed Journal). DOI: 10.1080/09715010.2019.1615393 (ISSN: 09715010, 21643040) Q3 Journal. May 2019.

Book Chapters:

25. **V. Venkateswarlu** and D. Karmakar (2019). "Wave Interaction with Multiple Submerged Porous Structures". **Proceedings of the International Conference on Ocean Engineering,** 265-279, **Springer,** DOI: 10.1007/978-981-13-3134-3_20 (Scopus indexed). (ISSN: 2366-2557). Conference Dates February 18-21, 2018.

26. K.R. Athul Krishna, **V. Venkateswarlu** and D. Karmakar (2019). "Wave transformation due to a submerged porous block associated with a vertical barrier". **Proceedings of the 10th International Conference on Asian and Pacific Coasts, APAC 2019,** 717-724, **Springer,** DOI: 10.1007/978-981-15-0291-0_98 (Scopus indexed). (ISBN: 978-981-15-0291-0). Conference Dates 26 September 2019

Journals in Under Review/Revision:

27. **V. Venkateswarlu,** K.G. Vijay, H. Behera. T. Sahoo (2023). Analysis of Wave Scattering by A Pair of Floating Pontoons Connected with A Mesh Cage Using DBEM. **Ships and Offshore Structures,** Taylor and Francis, (First Revision). (ISSN: 21914281, 2193567X) Q1 Journal.

28. V. Kumaran, **V. Venkateswarlu,** K.G Vijay, Nilanjan Saha, and R. Sundaravadivelu (2023). Hydrodynamic Performance of Pile Supported Caged Breakwater using DBEM. **Journal of Offshore Mechanics and Arctic Engineering,** Transactions of American Society of Mechanical Engineers, **ASME,** (Scopus and SCI indexed Journal, **IF = 1.760**). Q2 Journal.

29. **V. Venkateswarlu,** D. Suresh Kumar , K. Srinivasula Reddy and S.C Martha (2023). Hydrodynamic Performance of Horizontal Wavy Porous Barrier of Finite Thickness in the Presence of Sloping Seabed, **Waves in Random and Complex Media,** Taylor and Francis, (Scopus and SCI indexed Journal, **IF = 6.4**) (ISSN: 1745-5030, 1745-5049) Q1 Journal, (**Under Review**).

30. **V. Venkateswarlu,** K.G. Vijay, C. S. Nishad and S. Koley (2023). Effect of Bottom Undulations on Wave harnessing efficiency of Oscillating Water Column. **Journal of Engineering Mechanics, ASCE,** (Scopus and SCI indexed Journal, **IF = 3.847**), Q1 Journal. (Submitted).

31. V. Kumaran, **V. Venkateswarlu,** Manu, and Subba Rao (2023). Hydrodynamic Performance of Wall Type Breakwater with Slotted Barriers; Physical and Numerical Approach. **Journal of Waterway, Port, Coastal, and Ocean Engineering. American Society of Civil Engineers, ASCE,** (Scopus and SCI indexed Journal, **IF = 2.059**), Q1 Journal, (Submitted).

International/ National Conferences:

1. **V. Venkateswarlu** and G.N Pradeep Kumar (2015), "Smart Irrigation System Using Solar Power" a Two-Day National Seminar on Modernization of Irrigation Technology for Sustainable Agricultural Development, Department of Geography Sri Venkateswara University Tirupati.

2. **V. Venkateswarlu** and D. Karmakar (2017). "Wave Interaction with Submerged Rectangular Porous Structure in the Presence of Impermeable Wall". 3rd Indian Conference on Applied Mechanics (INCAM 5th – 7th July 2017). MNNIT Allahabad, 449 – 450.

3. **V. Venkateswarlu** and D. Karmakar (2017). "Gravity Wave Interaction with Multiple Submerged Porous Structures on Impermeable Multi-Step Bottom". International Conference on Theoretical, Applied, Computational and Experimental Mechanics, (ICTACEM 28th - 30th December 2017), IIT Kharagpur.

4. **V. Venkateswarlu** and D. Karmakar (2018). "Numerical study on the performance of multiple porous structures under oblique wave attack". 6th Indian National Conference on Coastal Harbour and Ocean Engineering (INCHOE 26th - 28th September 2018), CWPRS Pune, Vol. 1, 446 – 456.

5. **V. Venkateswarlu** and D. Karmakar (2018). "Wave interaction with multi-layered porous structure in the presence of porous front sea wall". 6th Indian National Conference on Coastal Harbour and Ocean Engineering (INCHOE 26th – 28th September 2018), CWPRS Pune, Vol. 2: 588 – 598.

6. **V. Venkateswarlu,** K.M. Praveen and D. Karmakar (2018). "Wave reflection due to the presence of porous structure with stepped seawall". 7th International and 45th National

Conference on Fluid Mechanics and Fluid Power (FMFP 10th - 12th December 2018), IIT Bombay.

7. **V. Venkateswarlu,** K.R. Athul Krishna and D. Karmakar (2018). "Wave force control on seawall using seaside porous blocks". Conference on next frontiers in civil engineering, (NFiCE 30th Nov – 1st Dec 2018), IIT Bombay. **(Best paper Award)**

8. K.R. Athul Krishna, **V. Venkateswarlu** and D. Karmakar (2018) "Wave reflection and transmission characteristics due to a piston type porous wave energy converter". Conference on next frontiers in civil engineering, (NFiCE 30th Nov – 1st Dec 2018), IIT Bombay.

9. **V. Venkateswarlu,** K. M. Praveen and D. Karmakar (2019). "Analytical study on the wave trapping performance of horizontal triple-layered porous absorber away from the vertical cliff." **HYDRO-2019,** 18th – 20th December 2019, Osmania University, Hyderabad, India.

10. K. M. Praveen, **V. Venkateswarlu** and D. Karmakar (2019). "Wave attenuation due to the presence of submerged barrier along with floating VLFS." **HYDRO-2019,** 18th – 20th December 2019, Osmania University, Hyderabad, India.

11. **V. Venkateswarlu,** C.S. Nishad, K.G. Vijay, and T. Sahoo (2020). "Wave scattering by a pair of floating pontoons having a submerged mesh cage". Advances in Differential Equations and Numerical Analysis (**ADENA-2020),** 12-15th October 2020, IIT Guwahati, India.

12. T. Chiranjeevi, **V. Venkateswarlu,** K. Ravi Kumar, K. Anil and T. Chandrasekhar Rao (2021). "Wave force control on submerged hidden caisson by installing the porous cover". Advances in Construction Technology and Management (**ACTM-2021**), 11th – 12th, March 2021, College of Engineering Pune.

13. Anil Kodimela, **V. Venkateswarlu**, T. Chiranjeevi and K. Ravi Kumar (2021). "Oblique water wave damping by floating plate of finite thickness". Advances in Construction Technology and Management (**ACTM-2021**), 11th – 12th, March 2021, College of Engineering Pune.

14. K. Ravi Kumar, **V. Venkateswarlu**, Anil Kodimela and T. Chiranjeevi (2021), "Surface gravity wave trapping by vertical thin wall placed on permeable seabed". Advances in Construction Technology and Management (**ACTM-2021**), 11th – 12th, March 2021, College of Engineering Pune.

15. **V. Venkateswarlu,** V. Tulasi, K. Ravi Kumar, T. Chiranjeevi, K. Anil and E. Sanjeeva Rayudu (2021). "Wave trapping by porous breakwater placed far away from the stepped seawall". International Conference on Advances in Naval and Ocean Engineering (iCANOE' 21), 19th – 20th November 2021, Department of Ship Technology, Cochin University of Science and Technology.

16. V. Tulasi, **Valliboina Venkateswarlu,** E. Dhanunjaya, and E. Sanjeeva Rayudu (2021). "Wave damping by floating porous structure placed under oblique waves" SHELTER, National Level Students Technical Symposium, 28th May – 2022, Department of Civil Engineering, Siddaganga Institute of Technology, Tumakuru. **(Best paper Award).**

17. Eturi Dhanunjaya, **Valliboina Venkateswarlu** and E. Sanjeeva Rayudu, (2022) "Gravity water wave reflection by permeable wall breakwater connected with horizontal beam". National Conference on "Research and Innovations in Civil Engineering and Architecture", 28th – 30th July 2022, Department of Civil Engineering, RV College of Engineering and RV College of Architecture. **(Best paper Award).**

18. V. Venkateswarlu, K. G. Vijay and M.A. Atmanand (2023). "Effect of undulated porous seabed on the efficiency characteristics of oscillating water column", Water Security and Climate Adaptation Conference, (WSCA 2023), October 4th-6th 2023.

Subjects Taught in BEC and NIT Srinagar:

1. Water Management,
2. Fluid Mechanics,
3. Hydraulics and Hydraulic Machines,
4. Irrigation Engineering,
5. Irrigation and Hydraulic Structures,
6. Environmental Engineering,
7. Design and Detailing of Irrigation structures,
8. Air pollution and Control and
9. Engineering Drawing,
10. Environmental Studies.

Subjects and Lab Courses Introduced in BEC:

1. Offshore Renewable Energy, and
2. MATLAB Programming for Civil Engineers.

Student Achievements:

1. Avishkaar 2022 – State Level First Prize, and
2. Smart India Hackathon (SIH - 2022) selected for Grand Finale – National Level.

Additional Responsibilities In BEC:

1. Institute Innovation Ambassador,
2. Centre for Innovation, Incubation and Entrepreneurship department Co-ordinator,
3. B. Tech projects work Co-ordinator, and
4. Best Teacher Award Event Co-ordinator.

Workshops/ FDPs organised:

1. Three Day Online FDP on **Offshore Renewable Energy** during 28th - 30th June 2021.
2. Impact Lecture Sessions on Innovation, Start-up and Entrepreneurship Sponsored by MoE's Innovation Cell during 22nd – 23rd November 2021.
3. Organised an Essay Writing Competition for "World Entrepreneurs Day Celebrations" during 21st – 24th August 2021.
4. Organised a Filed Visit "Water Treatment Plant", Bapatla on 25-02-2022.

Workshops/ FDPs Attended:

1. Participated in the short course on "Earthquake Resistant Design of Buildings" at International Institute of Information Technology Hyderabad.

2. Participated DHI training course on 'Training on coastal and marine modelling using MIKE 21' during 22nd – 26th, August 2016 at Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

3. Participated in the workshop on "Coastal Hydrodynamics and Modelling" sponsored by TEQIP-II held on 7th October 2016 at Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

4. Participated in two days workshop on 'Microwave Remote Sensing' during 17th -18th, October 2016 sponsored under the Research and Development Fund, TEQIP-II, Organised by Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

5. Participated GIAN short term course on "Offshore Renewable Energy (Wave, Wind and Tidal Energy)" held at Department of Applied Mechanics and Hydraulics, NITK, Surathkal during 7th – 11th November 2016.

6. Participated in the TEQIP-II sponsored workshop on "Computational Marine Hydrodynamics" held during 19th – 20th January 2017, at Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

7. Participated and presented a poster on the topic "Gravity Wave Interaction with Submerged Porous Structures" in the TEQIP-II, sponsored workshop on "Past, Present & Future Scenarios of Marine Structures" held on 20th February, 2017 at Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

8. Participated in the one-day workshop on "Innovative Concepts in Ocean Engineering" held on 26th April 2019, at Department of Applied Mechanics and Hydraulics, NITK, Surathkal.

9. Participated GIAN short term course on "Design and Analysis of Floating Wind turbine" held at Department of Applied Mechanics and Hydraulics, NITK, Surathkal during 3rd – 7th September 2019.

10. Participated in "National Intellectual Property Literacy Week organised" under **KAPILA Programme** during 15th -23rd October, 2020, organised by **MHRD.**

11. Undergone Innovation Ambassador training (Foundation level, Total 16 sessions of 30 contact hours) conducted by **MoE's Innovation Cell & AICTE** during the period from 30th June – 30th July 2021 in Online mode.

12. Participated in "Nonlinear Problems in Hydroelasticity" organised by Department of **Naval Architecture and Ocean Engineering**, Indian Institute of Technology Kharagpur (**IIT Kgp**), during 13th – 17th December 2021.

NPTEL/ Udemy Courses Undergone:

1. Python for Beginners: Learn Python Programming, Udemy.

Scholarships:

- State government Scholarship for completing the Intermediate (2007-2009).
- The fee reimbursement for Bachelor's Degree (B.Tech 2009-2013).
- AICTE Fellowship for Masters (M.Tech, 2013-2015).
- MHRD Institution fellowship for Doctoral Degree (Ph.D. 2016-2020).

Personality traits and skills:

- Consistent and outstanding academic records throughout education.
- The clear understanding of underlying principles of the subject and its relevance.
- Extensive participation in committees and in extracurricular activities.
- Excellent inter personal skills.
- Excellent communication skills both written and verbal.
- I can speak for a long time.
- Ability in clarifying doubts.
- Passion for teaching.
- Confident and have patience.
- Good team member.

Ph.D. Project Work:

Project work on "Gravity Wave Damping by Stratified Porous Structures" under the guidance of Dr. Debabrata Karmakar, Dept. of Water Resources and Ocean Engineering (formerly known as Applied Mechanics and Hydraulics) National Institute of Technology Karnataka, Surathkal.

M. Tech Project Work:

Project work on "Comparative Study of Different Expressions for Reynolds Number Used in Porous Media Flow" under the guidance of Prof. G.N. Pradeep Kumar, Dept. of Civil Engineering, Sri Venkateswara University, Tirupati.

M. Tech Mini Project Work:

Mini project on "Smart Irrigation System Using Solar Power", under the guidance of Prof. G.N. Pradeep Kumar, Dept. of Civil Engineering, Sri Venkateswara University, Tirupati.

Technical skills:

- Proficiency in Excel sheets and Spread sheets.
- MS-Office.
- Origin Pro
- Auto CAD.
- MIKE 21
- MATLAB
- C Language

Participation and Awards:

- Qualified in GATE – 2013 (Rank - 4613)
- Qualified in EAMCET – 2009 (Rank - 18136)
- Participated and secured First prize in Making the Bridge Contest competition at IEI STUDENTS'S CHAPTER.
- Participated and secured second prize in technical quiz competition at IEI STUDENTS'S CHAPTER.
- Secured Runner Prize in Kabaddi Competition on the occasion of the college Intramural Tournaments – 2011 – 2012.
- Participated in the event structure making at JIGNASA 2011, A National Level Technical Fest.
- Presented a seminar on Groundwater Contamination.
- I have participated in many cultural activities, including quizzes, dramas.

Research Plan:

So far several types of breakwaters and their hydrodynamic performance have been examined using analytical and numerical methods during Ph.D. and post Ph.D. Very recently, I have shifted towards the extraction of "Offshore Renewable Energy" using an "Oscillating

Water Column (OWC)" Device, "Backward Bent Duct Buoy (BBDB)", and "Flap-Type Wave Energy Converter", and planning to publish 50 SCI journals and multiple Indian Patents, and 3 projects from SERB (DST), NRB (DRDO), and NIOT on the topic of Renewable Energy. The preliminary investigation on OWC-WEC was carried out and few research works are submitted and some are published. A founded project is submitted to the SPARC IIT Kharagpur in Collaboration with Prof. T. Sahoo titled "Marine Hydroelasticity: Theory, Application, and Emerging Frontiers".

Personal Information:

Date of Birth	:	07 June 1992
Gender	:	Male
Father's name	:	Sri. V. Hazarathaiah
Mother's name	:	Smt. V. Hazarathamma
Address	:	Peramana Village, Sangam Mandal, Nellore District – 524308.
Nationality	:	Indian
Marital status	:	Married
Spouse name	:	P. Haritha
Languages known	:	English, Telugu, Hindi.

PROFESSIONAL REFERENCES:

1. **Dr. Debabrata Karmakar,** Associate Professor,
   Address: Department of Water Resources and Ocean Engineering, National Institute of Technology Karnataka – Surathkal, P. O. Srinivasnagar, Mangalore - 575025, Karnataka, India, Ph.D. Supervisor (2016 - 2020).
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Declaration:

I, Dr. V. Venkateswarlu, hereby declare that all the information furnished above is true to the best of my knowledge and belief.

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