

Name	Ms. T. A. NIMALI SUGANDIKA
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Position	SENIOR LECTURER
Qualifications	PhD (Reading), BSc Eng (Hons), CEng, MIESL, ECSL
Teaching Modules	Fluid Mechanics (CE1322), Hydraulics (CE2314), Sustainable Water Resources (6CV017), Advanced Hydraulics Design and Modelling (CE3323), Environmental Engineering (CE4322), Alternative Construction Methods (HND Unit 35), Construction Technology (HND Unit 2), Hydraulics (HND Unit 43)
Research Interests	Lagoon Hydrodynamics, Coastal Modelling (Numerical and Physical), Coastal Morphology Studies, River Hydrodynamic Studies
Specialization	Civil and Environmental Engineering

Publications	<p><b>Journal Publications</b></p> <p><b>T.A. Nimali Sugandika</b>, C. Rajapaksha, M. Monorajan, K. Raveenthiran, H.N.R. Perera and Deng Bo, Study on Artificial Island in Hambanthota Port Development Project, Sri Lanka – Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (October 2011).</p> <p><b>T.A. Nimali Sugandika</b>, K. Subasinghe, L. Halgahawatta, S. Samarawickrama, K.P.P. Pathirana, P.P. Gunaratna, K. Raveenthiran and R.P. Dubey, Mathematical Model Studies for River Regulatory Measures for Improvement of Draft in Hooghly Estuary, India – Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (October 2011).</p> <p><b>T.A. Nimali Sugandika</b>, D.M.S.S. Dassanayake, M. Fernando, K. Raveenthiran, H.N.R. Perera and M.R. Subramanian, Mathematical Model Studies for Coastal Erosion at Wudam Al Sahil in Musannah, Oman– Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (October 2011).</p> <p><b>T.A. Nimali Sugandika</b>, E. Haniffa, K. Raveenthiran and M. Amari, Development and Consolidation of the Old El Kala Port in Fishing and Pleasure,Algeria – Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (October 2011).</p> <p>P.P. Gunaratna, D.P.L. Ranasinghe, <b>T.A.N. Sugandika</b>, Assessment of Nearshore Wave Climate off the Southern Coast of Sri Lanka- Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (October 2011).</p> <p>P.P.Gunaratna, D.P.L. Ransigha &amp; <b>T.A.N. Sugandika</b>, <i>Variability of near-shore wave climate off the Southern coast of Sri Lanka – Publication for Institute of Engineers in Sri Lanka (IESL) Journal Paper (2011).</i></p> <p><i>B.A.S.R. Manuwansha, N. Sugandika, Use of concrete waste from Industries as an alternative material for the permeable concrete production-CINEC Academic Journal, Malabe, Sri Lanka, 2021.</i></p> <p><b>Conference Publications</b></p> <p><b>Thenuwara A. N. Sugandika</b>, David P. Callaghan, Peter Nielsen, Atoll Lagoon Flushing at Manihiki in the Cook Islands-<i>Publication for Coasts and Ports Conference in Sydney, 2013.</i></p> <p><b>T.A.N. Sugandika</b>, M. Rasmy, M. J. A. Gunawardane, K. Raveenthiran, L. V. Talagala, D.Xianqiao and M. S. Mendis, Mathematical modeling on post-tsunami reconstruction of Panadura fishery harbor, Sri Lanka - <i>7<sup>th</sup> international conference</i></p>
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*on the Coastal and Port Engineering in Developing Countries (COPEDEC) in Dubai, 2008.*

**T.A.N. Sugandika**, D.P.L. Ranasingha , S. Samarawickrama, K. Raveenthiran , M.A.R.

Anasari & M. Mendis, Assessment of Wave Tranquility for the Proposed Deepwater Port at Krishnapatnam, India – *2<sup>nd</sup> International Conference on the Application of Physical Modelling to Port and costal protection (COASTLAB08) in Italy, 2008.*

**T.A.N. Sugandika**, D.P.L. Ranasingha, K. Raveenthiran, S. Samarawickrama, M.A.R.

Anasari & M. Mendis, Assessment of Wave Tranquility for the Proposed Deepwater Port at Krishnapatnam, India - *1st International Conference on the Conference on Marine Problems and specific Solution (COMPASS 2008) in Maldives, 2008.*

**T.A.N. Sugandika**, K. Raveenthiran, S. P. Samarawickrama, P.P. Gunaratna , K. Kashima & M. Mendis, *Impact Assessment of the Galle Port Development on the Existing Coastal Regime and Marine Environment, Sri Lanka – 2nd International Conference on the Coastal Zone Engineering and Management (Arabian Coast 2010) in Muscat, Oman, 2010.*

P.P. Gunaratna, **T.A.N. Sugandika** and D.P.L. Ranasinghe, Extreme Wave Occurrences off the Southern Coast of Sri Lanka - *8<sup>th</sup> international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.*

Basnayaka, **T.A.N. Sugandika**, K. Ravichandren, K. Raveenthiran, M. Amari & M. Mendis, Development and Consolidation of the El Kala Port in Fishing and Pleasure: Physical Modelling Investigation, Algeria - *2nd International Conference on the Application of Physical Modelling to Port and costal protection (COASTLAB08) in Italy,2008.*

P.Gunaratna, L.Fernando, **N. Sugandika** & R. Ransigha, *Variability of nearshore wave climate off the western coast of Sri Lanka - 15th PECS (Physics of estuaries and Coastal Seas) 2010 Conference in Sri Lanka.*

S.Samarawickrama, R.P. Dubey, P.P. Gunaratna, R.K. Guptha, L. Halgahawatta, K.P.P. Pathirana, K. Raveenthiran, K. Subasingha and **T.A.N. Sugandika**, Mathematical model studies for river regulatory measures for the improvement of draft in Hooghly Estuary, India - *8th international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.*

T. M. E. S. Hanifa, M. Amari, K. Raveenthiran and **T. A. N. Sugandika**, Development and consolidation of the El Kala port in fishing and marina: modelling

investigation, Algeria 8th international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.

M. Manoranjan, D. Bo, H. N. R. Perera, R. W. C. N. Rajapaksha, K. Raveenthiran and **T. A. N. Sugandika**, Study on artificial island for Hambantota port development project, Sri Lanka - 8th international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.

D.M.S.S.Dissanayake, M.D.V.S.Dharmadasa, M. Fernando, **T.A.N.Sugandika**, K.Raveenthiran, H.N.R. Perera and M.R.Subramanian, Mathematical model study for Coastal Protection Measures at Musannah, Oman - 8th international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.

M. S. L. Fernando, S. H. M. A. P. K. De Silva, I. G. I. Kumara, P. A. Samarasinghe, K. B. Silva, **T. A. N. Sugandika**, L. V. Talagala and D. T. Thotagamuwage, Design and construction of an inner bay fishery harbor, Sri Lanka - *8<sup>th</sup> international conference on the Coastal and Port Engineering in Developing Countries (COPEDEC) in India, 2012.*

#### **Abstract Publications**

B.A.S.R. Manuwansa, **N. Sugandika**, Use of concrete waste from Industries as an alternative material for the permeable concrete production-Second research symposium conducted by CINEC Campus, Malabe, Sri Lanka, 2021.

R. P. S. Amarasekara, **N. Sugandika**, Effects of ozone depletion due to urban and rural air pollution-Second research symposium conducted by CINEC Campus, Malabe, Sri Lanka, 2021.