E17 projects

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Supervisor	Project Number	Title of the Project	Student Reg. No.
		Water & Environmental	
Prof. SB Weerakoon	C/17/01	Investigation of the imapct groyne orientation on bank	E/17/295
	C/17/01	stabilization at a river bend with a lateral inflow	E/17/302
	C/17/02	Investigation of shear stresess on a bed of a chute followed by a	E/17/395
		stepped spillway	E/17/23
Prof. KDW Nandalal	C/17/03	Trends of Wet and Dry Periods in the Central Province of Sri	E/17/261
		Lanka	E/17/305
	C/17/04	Extension of streamflow data: Nilwala River	E/17/068
	CITION		E/17/344
	C/17/05	Effective drying and disposal options for Kandy City Wastewater	E/17/365
		Treatment Plant Sludge	E/17/049
Prof. GBB Herath	C/17/06	Assessing options for Fecal Contamination Detection in Water	E/17/046
		and Soil	E/17/364
	C/17/07	Enhancing the performance of recovery of phosphorus and	E/17/319
	CITION	nitrogen from anaerobically treated wastewater (Co superviced	E/17/123
	C/17/08	Hydrodynamic modelling of membrane-based treatment systems	E/17/264
		using artificial neural networks	E/17/074
Prof. (Ms) KGN	C/17/09	Variability and rainfall trend analysis	E/17/412
Nanayakkara			E/17/399
	C/17/10	Hydrodynamic modelling of membrane-based treatment systems	E/17/306
		using computational fluid dynamics	E/17/239
	C/17/11	Application of Universal Soil Loss Equation (USLE) to	E/17/223
Dr (Ms) Hemalie		Mountainous areas of a rivers basin	E/17/303
Nandalal		Rainfall runoff modelling using HEC HMS	E/17/150
		v v <u>-</u>	E/17/224
	C/17/13 C/17/14	Mitigation of clogging effect in vertical subsurface flow	E/17/299
Dr GMPR Weerakoon		constructed wetlands	E/17/233
		Non-revenue water (NRW) control strategies for Kandy	E/17/324
		municipal council area	E/17/124
Dr (Ms) WCTK	C/17/15	Investigate the effect of integrating Sustainable Stormwater Management in Urban Planning	E/17/002 E/17/080
Gunawardana		Assessing the effect of ambient fine particulate matter air	
Guilawalualla	C/17/16	pollution	E/17/113 E/17/247
		Evaluating quality in bottled water under diffrenet storage	E/17/24
	C/17/17	conditions	E/17/366
Dr RMLD Ratnayake	C/17/18	Computer application to imrove the perfomances WasteWater	E/17/410
		Treatment Plants	E/17/409
			E/17/197
	C/17/19	Estimation of reservoir water levels using satellite data products	E/17/221
Dr NGPB Neluwala	C/17/20	Evaluating the effect of various bathymetric models on	E/17/112
		simulations of river hydrodynamics in areas with limited data.	E/17/030

l	~		E/17/073
	C/17/21	Weather forecasting model for Kandy city	E/17/377
Dr (Ms) Gouri De Silva		Evaluate performance of statistical downscaling of rainfall over	E/17/217
	C/17/22	Kelani river basin	E/17/202
		Hydro-Climate Variability and Trend Analysis in Mi-oya river	E/17/391
	C/17/23	basin	E/17/110
			E/17/193
	C/17/24	Modeling a fish aggregating device using CFD approach	E/17/028
Mr DD Dias	CUEDE	The impact of an accelerated debris' geometry on the force	E/17/132
	C/17/25	trigged on a coastal structure	E/17/014
		Geotechnical & Transportation	
	C/17/26	A study on strength characteriastics of Sri Lankan timber species	E/17/033
Prof. SBS Abayakoon	C/1//20	A study on strength characteriastics of Sri Lankan timber species	E/17/196
Prof. SBS Adayakoon	C/17/27	Developement of response spectra for soft soil amplification of	E/17/304
	C/1//2/	the Greater Colombo Area	E/17/164
Dr AGHIEdiniainaha	C/17/29	Most appropriate speed for short distance public transport huses	E/17/270
Dr AGHJ Edirisinghe	0/1//29	Most appropriate speed for short distance public transport buses	E/17/042
	C/17/30	Issues and challenges in first-and-last-mile-connectivity in the	E/17/260
Dr IMS Sothyannood	C/17/30	promotion of public transport in Kandy district	E/17/329
Dr IMS Sathyaprasad	0/17/21	A study of the spreading of parking demand due to the sponge	E/17/225
	C/17/31	effect in multi-functional trip attractors	E/17/336
	0/17/22	Stability of overanging soil slongs	E/17/125
	C/17/32	Stability of expansive soil slopes	E/17/214
Dr LC Kurukulasuriya	0/17/22	Effect of leaching of fine grained particles on the collapse	E/17/310
	C/17/33	potential of soils	E/17/063
	C/17/34	Effect of Crash Barriers on Driver Behavior	E/17/322
Dr WMVSK			E/17/325
Wickramasinghe	C/17/35	Estimating the risk of pedestrians' crossing decisions at	E/17/181
		unsignalized crosswalk	E/17/346
	C/17/36	relate soil permeability to particle size and shape	E/17/056
Dr (Ms) DdeS			E/17/291
Udakara	C/17/37	soil plasticity with respect to particle size	E/17/283
			E/17/104
	C/17/38	Characterization of Coconut coir-based porous media	E/17/070
Dr DTKK Chamindu			E/17/016
	C/17/39	Comparison of Predictive Models for Soil-gas diffusivity	E/17/118
	011139		E/17/389
	C/17/40	Strength and Swell Characteristics of Expansive Road Subgrade	E/17/141
	C/1//40	Stabilised with Novel Fly Ash-based One-Part Geopolymer	E/17/278
Dr MCM Nasvi	C/17/41	Strength and Swell Characteristics of Expansive Road Subgrade	E/17/171
	0/1//41	Stabilised with Novel Rice Husk Ash-based One-Part	E/17/334
	C/17/42	Prediction of geotechnical properties of expansive soil stabilized	E/17/167
		with fly ash/RHA using Aritificial Neural Networks	E/17/348
Dr AMRG Athapaththu	C/17/43	Evaluation of engineering properties of weathered jointed rock	E/17/307
		masses	E/17/067
	C/17/44	Liquefaction hazard assessment of Colombo port city	E/17/076
			E/17/105

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Dr SK Navaratnarajah	C/17/45	Artificial Neural Network (ANN) model to predict pile capacity	E/17/281 E/17/163					
	CHELAC	Shredded rubber for ballast replacement in Rail Track	E/17/343					
	C/17/46	Applications	E/17/208					
	C/17/47	Influence of grdation on Shear behavior of railway ballast	E/17/345					
	C/1//4/	materials	E/17/010					
Dr WRSS Dharmarathna	C/17/48	Mode choice parameter estimation for airport access by air	E/17/253					
	C/1//48	passengers	E/17/062					
	C/17/49	Comparative analysis of Nested Logit (NL) and Multinomial	E/17/363					
	C/1//4/	Logit (MNL) modeling approaches for mode choice decisions	E/17/361					
	Materials and Structures							
	C/17/50	Application of Biomimicry for Infrastructure Sustainability and	E/17/177					
Prof. PBR Dissanayake		Resilience	E/17/179					
	C/17/51	Restructuring urban society for disaster mitigation by university	E/17/188					
		enterprise collaboration in Sri Lanka	E/17/386					
	C/17/52	The numerical prediction of aeroelactic response of rectungular	E/17/111					
Prof. KK Wijesundara		tall buildings	E/17/115					
	C/17/53	Stress concentration on shear walls at transfer structures in tall	E/17/096					
		buildings	E/17/093					
	C/17/54	Study of masonry domes constructed with a cross-herringbone	E/17/066					
Dr KRB Herath		spiraling system	E/17/298					
	C/17/55	Study and design of cobweb safty net structures	E/17/265					
			E/17/036					
Dr (Ms) SR Herath	C/17/57	Techniqes of making curved bamboo elements and their	E/17/174					
		differences	E/17/186					
	C/17/58	Cost Controlling in the Construction Industry of Sri Lanka	E/17/175					
Dr PBG Dissanayake			E/17/022					
	C/17/59	Effect of Resource Planning on Construction Project Delays	E/17/403					
			E/17/273 E/17/226					
	C/17/60 C/17/61	Chloride penetration of concrete containing high volume supplementary cementitious materials	E/17/266					
Dr (Ms) CK Pathirana		Use of Damage Rating Index (DRI) method to predict the damage	E/17/081					
		level of concrete affected by alkali-silica reaction (ASR) Co-	E/17/392					
		Assessment of sensitivity of shear span and recess corner	E/17/311					
	C/17/62 C/17/63	geometry on the strength of dapped-end beams	E/17/267					
Dr HD Yapa		Use of artificial neural network (ANN) for formulation of self-	E/17/375					
		compacting concrete mixes	E/17/129					
	C/17/64	Evaluation of flexural and shear performance of steel-concrete	E/17/271					
		composite beams with flexible shear connectors	E/17/023					
Dr AJ Dammika	C/17/65	Investigation of dynamic characteristics of prestressed concrete	E/17/390					
		(PSC) girders & bridges built with PSC girders.	E/17/248					
	C/17/66	Combined Effect of Stiffener Shape and Relative Stiffness on the	E/17/007					
Dr JASC Jayasinghe		Lateral Performance of Concrete-Filled Steel Hollow Piers under	E/17/204					
	C/17/67	Mechanical Performance of Steel Structural Elements	E/17/151					
		(Column/Frame) under Fire Loading: A Coupled Thermo-	E/17/135					
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	C/17/68	Rubber based Numerical Simulations:	E/17/393					

Dr CS Bandara	C/17/69	Shear behaviour of pre-cast elements produced with concrete	E/17/349
		with plastic aggregate	E/17/387
	C/17/70	Fatigue failure assessment of welded joints of structural elements	E/17/257
			E/17/287
Dr HADS Buddhika	C/17/71	Development and Characterization of Eco-Efficient Durability	E/17/354
		Concrete for Marine Applications	E/17/220
	C/17/72	Natural Frequencies and Modal Damping Ratios Identification of	E/17/020
		Tall buildings from Ambient Vibration Data	E/17/308
	C/17/73	Stress Analysis and Rehabilitation of Ancient Stupas in Sri Lanka	E/17/406
		(Co- Supervised by Prof. Kushan Wijesundara)	E/17/328
Dr KC Chandrasiri	C/17/74	Synthesis in situ grown CSH to improve the properties of high	E/17/166
		volume fly ash concrete.	E/17/357
Dr NMSH Bandara	C/17/76	Structural retrofitting using Ultra High Performance Fibre	E/17/341
		Reinforced Concrete (UHPFRC) jacketing	E/17/300
	C/17/77	Feasibility investigation of foam concrete for wall panels	E/17/160
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