

Industrial Training & Research Coordination Centre

Completed ITRC Undergraduate Research Projects

Level III- 2005-2006 Academic year

No	Project
1	Forecasting of production of manufacturing of tyre based on failure of machinery using neural networks - Loadstar/Solidel, Midigama, Sri Lanka
2	Financial (Stock) Market analysis / predictions on financial crashes
3	Adequacy of testing on cement manufacturing at Holcim (Lanka) Pvt. Ltd, Galle
4	Study of the avifauna in the Kiralakele forest reserve
5	A Microprocessor Controlled Door Security System
6	Automatic electronic water pump controller

Completed ITRC Undergraduate Research Projects

Level III- 2006-2007 Academic year

No	Project	Student/s	Supervisor
1	Survey About Facilities Obtained For Students By The University Of Ruhuna & Related Facts For The Results Of Students In Faculty Of Science	D. C. Kirindeniya	Dr. Leslie Jayasekara

Completed ITRC Undergraduate Research Projects

Level III- 2007-2008 Academic year

No	Project	Student/s	Supervisor
1	Power Saving Automatic Switch	S.T. Thilakawardena	Prof. W.G. Dharmarathna
2	Impact of the domestic environment in the development of the secondary language of primary school students	W.A.N. Lakmal W.M.M.K. Weerasekara	Prof. S.W. Amarasinghe
3	Constraints of strawberry cultivation in Sri Lanka with special reference to diseases – a case study	P.G.P. Chandana	Prof. S. Abeysinghe
4	Personality types and stress level of garment industry workers	K.K.D.C.G.C. Ranaweera	Mr. P.B.D. Silva
5	Environmental and socio economical impact of Gem mining in Rathnapura district	A.G.G. Thilakasena	Mrs. R.A.S.P. Ranabahu
6	Progress of introduction of ICT as a subject for students in schools in Matara education zone	K.P.S. Sandamali	Mr. Piyal Renuka
7	The importance of the IT for the productivity in garment sector	K.H.A.M. Madhubhashini	Mr. Piyal Renuka
8	Web based learning management system	A.M.P.D.K. Herath	Mr. M.P.A. Wijayasiri
9	A study on the usage of journals of the main library of university of Ruhuna by BSc special degree students	A.S.N. Jinadasa	Mr. K.T.S. Pushpakumara
10	A study on attitudes about library services of the main library of University of Ruhuna	R. Paranamana	Mr. K.T.S. Pushpakumara
11	Bank and Customer Relationship	A.G. Vidanagamage	Mr. K.E.D. Perera
12	Designing of a software solution based on J2SE technology for the library computer pool of university of Ruhuna	T.M.P. Madhawa	Mr. K. Ramanayake
13	Social impacts of river sand mining	L.C. Gunawardena	Prof L.P. Jayatissa
14	A video production of a scientific documentary on natural resources and the protection of the Dediyaigala forest	H.M.A. Prageeth	Mr Jayantha Amarasingha
15	Social problems arisen due to gem mining in Nivithigala area	K.E.D.A.A. Rathnasiri	Mrs R.A.S.P. Ranabahu
16	A preliminary study on effect of wormy compost on water quality and growth of Red tilapia	P.L. Herath	Dr. W.A.H.P. Guruge

17	Comparative study of the effect of organic and chemical fertilizer on the cultivation and new environment	M.R.R. Weerasekara	Dr. V.P. Bulugahapitiya
18	Investigation of physiochemical differences of input and output water of a vehicle service industry and trends to reduction of water pollution	S.K. Ganegamage	Dr. V.P. Bulugahapitiya
19	Evaluation of organic and inorganic fertilizer by applying for different crops	L.M. Arachchi	Dr. V.P. Bulugahapitiya
20	Computer assisted coral identification system	W.M.D.K. Bandara	Dr. Terny P. Kumara
21	Investigation of socio-economic factors which influences the student education in a village in Rathnapura district	A.W.N. Warnakulasooriya	Dr. Ranaweera Banda
22	A study on course unit system FOS	W.M.R.T.W. Kumara	Dr. Ranaweera Banda
23	Effect of different fertilizer application on quality and quantity of cut flower production of Gerbera	R.M.H.K. Rathnayake	Dr. N.P. Dissanayaka
24	Optimization of soap/flour production to maximize the profit	S.M.T.D. Samarakoon	Dr. N. Yapage
25	Optimization of soap/flour production to maximize the profit	A.D.T. Peries	Dr. N. Yapage
26	Mosquito species in Rassandeniya village	D.M.C.J. Dissanayaka	Dr. M.G.V. Wickramasingha
27	Analysis of Water Samples	R.M.R.R. Ratnayaka	Dr. G.B.C. Sanath
28	Effect of modern technology on organizational growth	R.A.I.R. Ranasinghe	Dr P.A.P. Samantha Kumara
29	Effect of modern technology on organizational growth	W.I. De Soysa	Dr P.A.P. Samantha Kumara
30	Creating and managing of computerized student administration system	N.K.A. Sampath	Dr P.A. Jayantha
31	Building a secure server environment using Linux OS for ERP	A.M.I.S. Abeykoon	Dr. J.R. Wedagedera
32	Designing of an information management system for cricket	G.D.S. Thilaka	Dr. J.R. Wedagedera
33	Investigation of incidences and prevalence of mosquito vector based diseases in Katharagama area	J.K.I.U. Kumara	Mr. E.P.S. Chandana
34	PC Assembling	W.G.G. Kaushalaya	Mr B.H. Saranapala
35	Oral Cancer incidences and habits of people	M.M.D. Priyadarshana	Mr. E.P.S. Chandana
36	Oral Cancer incidences and habits of people	N.S. Chandrapala	Mr. E.P.S. Chandana
37	Study of reptile and amphibian fauna in Kiralakele	G.R.R. Sanjeewa	Mr. E.P.S. Chandana
38	Study of reptile and amphibian fauna in Kiralakele	C.D. Saparamadu	Mr. E.P.S. Chandana

Completed ITRC Undergraduate Research Projects

Level III- 2009-2010 Academic year

No	Project	Student/s	Supervisor
1	Designing of a Management Information Systems (MIS) for Faculty of Science University of Ruhuna (Stage I: Student Registration and Management of Attendances)	R. M. S. U. Gunathilake G. R. A. R. Indrathilake	Dr. J.R. Wedagedera
2	Statistical Quality Controlling Method for the Variation of Tire Weight of Tire Production at Loadstar-Solidel - Midigama, Sri Lanka	K.A.D.S.P. Madhusanka A.G.J. Krishantha	Dr. J.R. Wedagedera
3	Inventory Management System for Teaching Hospital Mahamodara, Galle, Sri Lanka.	D.M.D.B. Thanayamwatta	Dr. Prasad Jayaweera
4	Preparation and Development of a Computerized System for Summarized Monthly Running Report (R/S) for Transport Commission of Sri Lanka.	N.M.S.B. Hettigoda W.A.B. Janith	Prof. L.A.L.W. Jayasekara
5	Effect of different agriculture practices on the rice yield	W.M.S.S. Bandara	Dr. E.P.S. Chandana
6	Investigation on the importance of the variety and method of propagation of banana on banana diseases and yield in Walawa region	R.P.I.D. Chaminda	Prof. S. Hettiarachchi and Prof. Gamini Senanayaka

Completed ITRCC Undergraduate Research Projects

Level III- 2014-2015 Academic year

Unit	Project title	Comments	# of students involved				
Innovative technology transfer unit	Design and fabrication of an electronically controlled multi function dryer	Proposed by a small scale industry	01	Statistics and Industrial Mathematics Consultation unit	How to use quality improvement techniques in local industry in practical	Proposed by Freeland Enterprises (PVT) Ltd.	01
	Temperature monitoring system for rice mill	Proposed by Freeland Enterprises (PVT) Ltd.	01		Inventory Management system for Freeland Enterprises (Pvt) Ltd.		02
	Investigation of individual power consumption at Freeland Enterprises (pvt) Ltd. and propose strategies for minimizing electricity power consumption		01		Statistical techniques to improve quality of rubber hot water bottles	D. Samsons Compounds (Pvt) Ltd.	01
	Design and construction of a temperature monitoring system for noodles dryer at Freeland Enterprises (pvt) Ltd.		01		Reasons for rejection of pipe born water connection in National Water Supply and Drainage Board.	National Water Supply and Drainage Board.	01
	Design and construction of a display system of temperature and time for noodles steaming cupboard at Freeland Enterprises (pvt) Ltd.		01		Statistical surveyor of the	Harischandra	01
	A low cost device for measuring weights of powder products in industrial applications	Proposed by a small scale industry	01		variation of thickness of the Papadam productions by Harischandra (Pvt) Ltd.	(Pvt) Ltd., Matara	
	An automated, low cost device for feeding grains into grinding mills	Proposed by a small scale industry	01	Environmental, Chemical and Biological Consultation unit	Screening of tea variations for anti microbiobial, anti oxygen and anti cancer properties		02
					Formulation of bio pesticides		02
				ICT Solutions unit	Inventory Control System for Harischandra Mills Plc	Harischandra (Pvt) Ltd., Matara	01
			Goods Delivery and salesmen tracking System			01	
			SMS Based Doctor Consultancy System for a Channeling Centre		Proposed by a Channeling Centre	01	
			Patient E-Record System			01	
Total							24

Completed ITRCC Undergraduate Research Projects

Level III- 2015-2016 Academic year

No	Industry	# Students carried out their projects	Project details
1	D. Samsons Compounds (Pvt) Ltd, Samson Rajapaksa Mawatha, Bataduwa, Galle.	04	Development of LOW PAH RUBBER Slipper FOR the European market
2	Load Star Pvt. Ltd. , Central HR Division Region's Court , Minuwangoda Ekala , Jaela	02	
3	Lucky Lanka Milk Processing Co. Ltd, Kamburupitiya, Matara	07	Implementing 5-S system
4	Freeland Ltd, Matara	02	Analyzing liquid waste
		02	Slot analysis- about their row materials
5	Harischandra Mills, Matara	02	Identifying nutrient levels of food products
		02	Construction of remote display system for monitoring oil levels of oil tanks
6	Holcim Cement, Galle	02	Chemical analysis of raw materials
7	Baff Polymers	02	Designing an electronic system to indicate machinery problems
8	Projects under statistical consultation unit	02	
9	ICT Solution Unit		
Total # of Students		27	

Completed ITRCC Undergraduate Research Projects: Course Unit- FSC 3bP2

Level 3- Semester II 2019-2020 Academic year

No.	Project	Students	Supervisor/s
01	a) Solving Waster water collection Routing Problem in Bandarawela region by Integer Linear Programming b) An application of Chinese Postman problem	G.H.D. Chandrasiri (Sc/2016/9788) T.G.P.J. Weerasinghe (Sc/2016/9770)	Dr. D.M. Samarathunga
	(*Four students included in the project/two sub-problems were addressed)	L.M.K.P. Padmasankha (Sc/2016/9698) H.R. Dewasurendra (Sc/2016/9714)	
02	Internal Audit: Environmental Management system	R.M.D.S. Rajakaruna (Sc/2016/9780)	Dr. D.M. Samarathunga
03	Internship: Central Bank of Sri Lanka	L.S. Chandrasekara (Sc/2016/9776)	Dr. D.M. Samarathunga
04	Supply chain Management of APLANKA (Pvt) Ltd	E.A.P. Madhuwanthi (Sc/2016/9715)	Dr. D.M. Samarathunga
05	Employee Industrial Health and Safety	W.D. Nirodhanayaka (Sc/2016/9746)	Dr. N.M. Wickramage
06	Internship; Lanka Harness Company	M.M. Sajath Mohideen (Sc/2016/9728)	Dr. H.A.D.S.D. Perera
07	Productivity and Process Capability improvement of Loop 5 manufacturing process	D.K.S. Siriwardhana (Sc/2016/9825)	Dr. J.A.P. Bodhika
08	Internship: Camso Loadstar (Pvt) Ltd	W.T. Vidurangi (Sc/2016/9801)	Dr. J.A.P. Bodhika
09	Effectiveness of Performance appraisal system of Softlogic Life Insurance PLC	N.M. Ediriweera (Sc/2016/9712)	Dr. J.A.P. Bodhika
10	Internship: Atlas Axillia Co. PLC	A.M.S.M. Adikari (Sc/2016/9871)	Mr. Ranatunge Edirimanne
11	Internship: CASMO Loadstar (Pvt) Ltd	D.L.O.D. Dhanawardhana (Sc/2016/9692)	Dr. K.A.S. Kodikara

12	Extraction, Characterization and mosquito larvicidal activity of essential oil of <i>Toddalia asiatica</i>	H.D.C.P. M. Appuhamy (Sc/2016/9627)	Dr. Nishantha Kalutarage
13	Purification of Laboratory waste water using microalgae	M.K.N.A. Jayawardhana (Sc/2016/9640)	Dr. K.B. Jayasundera
14.	Preparation and adsorption properties of activated carbon derived from pyrolytic carbon char	R.A.S.N. Rupasinghe (Sc/2016/9592) J.A.R.S. Jayasooriya (Sc/2016/9590) G.D. Warnakula (Sc/2016/9695)	Dr. A.S. Ranaweera
15.	Survey on influence of Grade 5 scholarship examination on Mental and physical health of children	E.A.I. Ellapperuma (Sc/2016/9751) B.M.Y.R. Jayasena (Sc/2016/9872) R.H.G.K. Nandasena (Sc/2016/9577) W.K.A. Fernando (Sc/2016/9722)	Prof. H.C.E. Wegiriya
16	A food product; Aloe dosi from Aloe vera (<i>Aloe barbadensis miller</i>): insight towards valorization	H.K.B. Thilochana (Sc/2016/9605)	Dr. Sunanda Kodikara
17	Selection of potential dormancy breaking test/s for some selected weed species: widening the use of weed species for research purpose	W.D.S.K. Aberathna (Sc/2016/9672) P.H.S. Shalika (Sc/2016/9670)	Dr. Sunanda Kodikara
18	Anatomical variability among selected <i>Piper</i> species related in Sri Lanka	A.M.S. Chaturangi (Sc/2016/9602) K.G.A. Kalupahana (Sc/2016/9582) K.T.C. Silva (Sc/2016/9654)	Mr. DDN Sripal

Prepared by

-Dr. K.A. Sunanda Kodikara- ITRCC coordinator-