



**INSTITUTE OF TECHNOLOGY
UNIVERSITY OF MORATUWA, SRI LANKA**

**ANNUAL REPORT
&
ANNUAL ACCOUNTS**

2012

This annual report was approved by the Board of Management of Institute at its 160th meeting held on 28.03.2014.

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1. Vision Statement

To be a center of excellence of Technological Education.

2. Mission Statement and Goals

Mission

Be a dynamic technological institute in the region and actively contribute to the educational, economic, and social advancement of Sri Lankan community by:

- Providing accessible, flexible, and efficient technological education and skills training to meet the needs of the society and industry.
- Providing an environment for innovation and creativity.
- Formulation an active collaboration with industry, business and the community for career opportunities.
- Enhancing social and economic pathways and opportunities for young people.

Goals

- Goal 1** : Establish a physical environment compatible with a modern post- secondary Technological Institute.
- Goal 2** : Create a teaching and skills training system that is flexible and accessible to a larger student population in order to cater to the needs of the society and industry.
- Goal 3** : Establish an environment that promotes research of practical relevance and encourage innovation and creativity.
- Goal 4** : Establish a strong and a mutually beneficial partnership and involvement with industry.
- Goal 5** : Develop a team of qualified and motivated staff.
- Goal 6** : Create an environment that promotes the total development of students.
- Goal 7** : Develop a management system that ensures quality and efficiency at all levels of the institution.

3. Director's Review

a. Brief Introduction

Institute of Technology, University of Moratuwa is a premier higher educational institute primarily responsible for conducting the nationally and internationally well recognized National Diploma in Technology (NDT) study programme.

2012 is the 12th year of existence of the Institute. Although the institute continued to face numerous difficulties in conducting its activities, stemming from the fact that the institute do not possess its own physical facilities and is forced to depend on the sharing of the facilities of the University of Moratuwa, it diligently continued to perform its expected national service in the year under review.

b. Achievements

Academic activities of the institute were conducted according to academic schedules despite few interruptions due to unforeseen circumstances. 350 students were admitted to the institute to nine disciplines, namely, Chemical, Textile, Polymer, Civil, Electrical, Electronics, Marine, Mechanical, and Nautical. Orientation programme was successfully conducted for the new students. Award Ceremony was held on schedule to award the Diplomas for successful students. The industrial training programme for all the third year students were conducted as planned, with the collaboration of the National Apprentice and Industrial Training Authority.

A notable achievement of the year under review is the progress made in the most focused activity the long standing proposed project for the Relocation and Development of the institute. With the approval granted by the cabinet of Ministers for the Ministry of Higher Education to enter into a contract with China National Aero Technology Import and Export Corporation to carry out the project, Contract was signed between government agencies of the Peoples Republic of China and the External Resources Department of Sri Lanka regarding the finding of the project continued in 2012.

c. Failure & Justification

The ITUM, since its establishment in 2000, has faced many constraints which prevented its development both quantitatively as well as qualitatively. The student intake which was 350 students per year for few decades, remains the same even in the year 2012, due to the limitations imposed in sharing facilities with the main university. For the very same reason it was found difficult, by both staff and students alike, to do the full implementation of the academic upgrading identified with the revision of syllabus. Relocation and Development of the Institute as envisaged is the most desirable and implementable solution for this long standing handicap. Although there is an unexpected delay in the commencement of physical activities of the project for relocation the institute is in the correct path in achieving this goal.

d. Future Plan

The future plans of the institute are generally tagged to the proposed major development project of "Relocation and Development of the ITUM". While all the stakeholders of this major activity are being mobilized to achieve the goal, ITUM will continue to carry out its national duty of conducting the NDT program with the current number of students, but with enhanced quality, utilizing whatever the opportunities available under the existing set up.

4. Organization Chart - 2012

Figure 1 depicts the hierarchical arrangements of the Institute of Technology, University of Moratuwa.

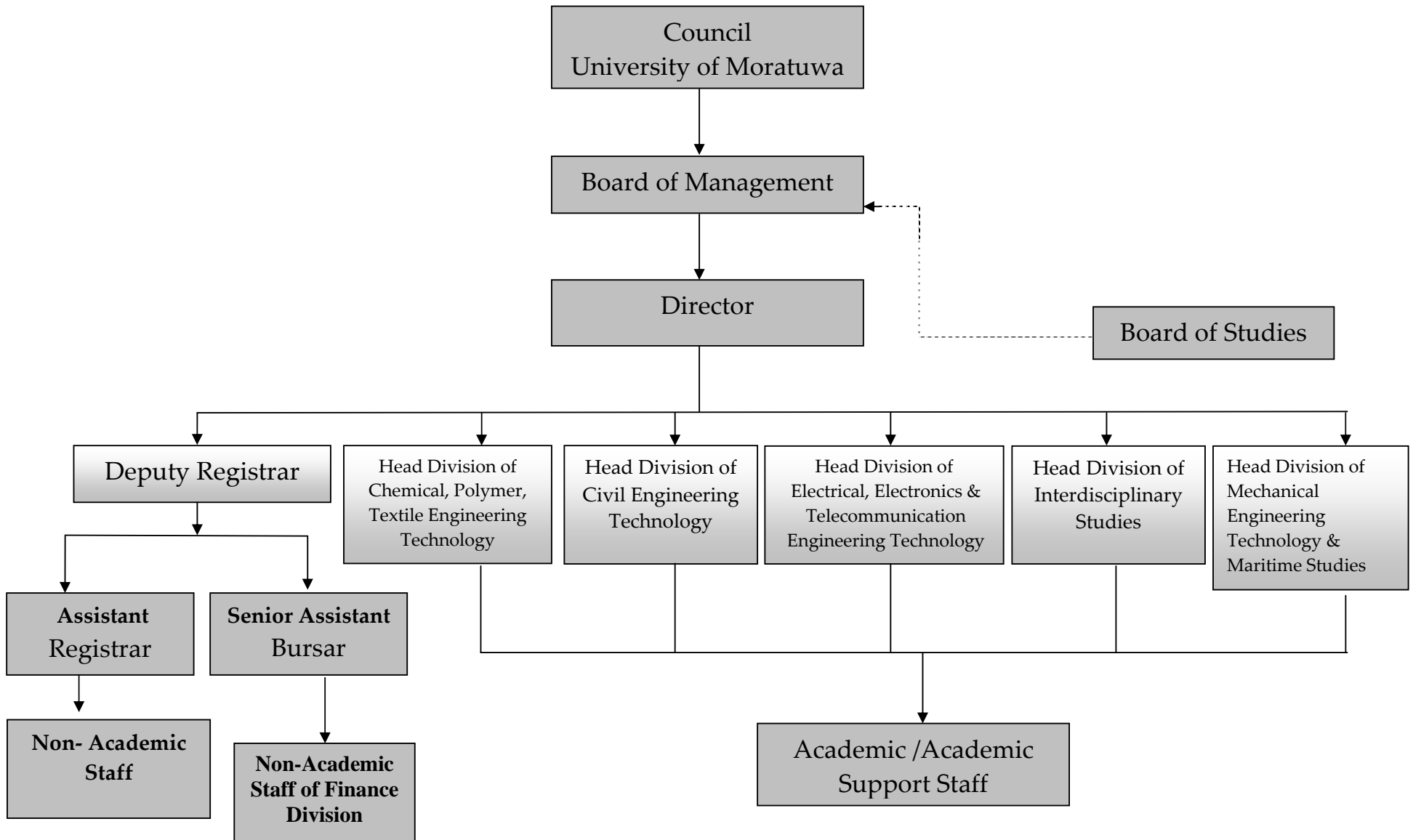


Figure 1: Hierarchical arrangements of the Institute of Technology, University of Moratuwa.

5. Officers of the Institute

Director	Dr. T.A.G Gunasekara Ph.D. – National University of Ireland M.Sc. (First Class Honors) - National University of Ireland M.Eng. – University of Moratuwa NDT (Civil Eng.) MIESL
Deputy Registrar	Mrs. D.J. Wickrama (Retired on 2012-10-21) BA (First Class Honours)- University of Kelaniya Postgraduate Diploma in Management- Open University Diploma in English- University of Colombo
Senior Assistant Bursar	Ms. S. A.S. De Silva B.Com (Special)- University of Colombo PGDBM- University of Colombo ICASLPI MAAT
Assistant Registrar	Mrs. S.R.S. Udeshi B.Sc. Agriculture (2 nd Upper Division)- University of Ruhuna. MPhil- Integrated Water Resource Management- University of Peradeniya . Diploma in English for professionals (SLIDA). MBA University of Sri Jayawardanapura (reading).
Postal Address	Institute of Technology University of Moratuwa Katubedda, Moratuwa, Sri Lanka.
Telephone Numbers:	General : 011 2650301/340 /441/534/671 Fax : 011 2650565 Director : 011 2650064 Deputy Registrar : 011 2650427 Senior Assistant Bursar: 011 2650565

6. Boards of the Institute

Members of the Board of Management, Institute of Technology, University of Moratuwa as at December 2012

1.	Dr.	T.A.G.	Gunasekara	Director/Institute of Technology, University of Moratuwa.
2.	Dr.	A.M.N.	Alagiyawanna	} Nominees of the University Grants Commission
3.	Mr.	J.K.	Lankathilake	
4.	Mr.	A.J.	Karunaratne	
5.	Mr.	P.G	Jayasinghe	Nominee of the Secretary to the Ministry of the Minister in-charge of the subject of Higher Education.
6.	Mr.	A.W.	Seneviratne	Nominee of the Secretary to the Ministry of the Minister in-charge of the subject of Shipping
7.	Prof.	U.G.A	Puswewala	Dean of the Faculty of Engineering of the University.
8.	Prof.	P.K.S	Mahanama	Dean of the Faculty of Architecture of the University.
9.	Mr.	L.J.K.	Hettiarachchi	Nominee of the Council of University of Moratuwa.
10.	Prof.	J.R.	Lucas	Nominee of the Senate of University of Moratuwa.
11.	Mrs.	M.M.P.D	Samarasekara	} Nominees of the Board of Studies of the Institute of Technology, University of Moratuwa.
12.	Dr. (Mrs.)	W.B.M.	Thoradeniya	

Members of the Board of Studies, Institute of Technology, University of Moratuwa as at December 2012.

1. Dr. T.A.G. Gunasekara, Director/ITUM
2. Mr. M.I.R.T Fernando
3. Mrs. S.M Kannangara
4. Mrs. P.N.P. Fonseka
5. Mrs. S Nagodavithana
6. Mrs. C.P.N Attygala
7. Miss. Kamala Gamage
8. Mrs. P.S. Yatapana
9. Mrs. K.M.W Abeykoon
10. Mrs. M.D.S. Seneviratne
11. Mr. K.M. Ranasiri
12. Mrs. N.V Kularathne
13. Mrs. W.P.S.K. Perera
14. Mr. J.M.P. Gunasekara
15. Mrs. D.Y.T. Bambarawanage
16. Mrs. G.K. Jayathunga
17. Mrs. M.A. Bibile
18. Mr. T.R.D Perera
19. Mrs. R.C.Kodikara Librarian /UOM
20. Dr. (Mrs.) W.B.M. Thoradeniya
21. Mrs. M.M.P.D. Samarasekara
22. Ms. S.L. Jayasuriya
23. Dr. (Mrs.) I.N Jayatilaka
24. Mrs. M.V Dassanayake
25. Mr. G.A.M.D. Wickramathilake
26. Ms. K. Galappaththi
27. Mrs. B.A.S. Priyanka
28. Mr. A.H.L.K Amarasekara
29. Mr. A.M. Muzathik
30. Mr. G.G. Jayarathna
31. Mrs. W.A Indira
32. Mrs. S.C Mathugama
33. Mrs. K.M.D. Silva
34. Mrs. M.C.W. Somarathna
35. Mrs. N.P.K Semananda
36. Mrs. J.B. Samarasinghe
37. Mr. G.D. Nanayakkara
38. Mr. D.A Thevathasan - Industry Representative
39. Mr. E.A.J Jayarathna - Student Representative
40. Mr. W.J.K.A.P Buddhika – Student Representative

7. Brief History of National Diploma in Technology Course and the Establishment of Institute of Technology, University of Moratuwa.

The roots of the National Diploma in Technology (NDT) Course date back to 1940s to the Ceylon Technical College, Maradana, where a two year Junior Technical Officer' (JTO) Courses was conducted in addition to the four year Diploma in Technology, preparing the students for the B.Sc Engineering degree of the University of London. JTO was a well recognized middle level technical course and those who completed the course immensely contributed to the development of the engineering sector of the country.

With the establishment of the Institute of Practical Technology (IPT) at Katubedda, Moratuwa, in 1960, the JTO course was transferred from Maradana to Moratuwa. The IPT was established with aid from the Government of Canada to develop and implement a practically oriented middle level engineering technology courses.

The IPT was elevated to Ceylon College to Technology (CCT) in 1966 and a rapid development took place with course diversification. The CCT commenced a five year Diploma in technology course and the JTO course was also revised introducing one year in-plant training to the course and making it a three year course leading to the National Diploma in Technology (NDT). Later, CCT was elevated to a Campus of the single University of Sri Lanka in 1972 and subsequently, it has grown to be the University of Moratuwa. The NDT course was then conducted by the university on behalf of the Ministry of Higher Education.

In 1987, the NDT course became an internal course of the University of Moratuwa under Section 29(e) of the University Act No. 16 of 1978 and the educational qualification to gain entry to the course became GCE Advanced Level. The Institute of Technology, University of Moratuwa (ITUM), an institute under the University of Moratuwa primarily for the conduct of National Diploma in Technology and similar level courses was established in 2000, under Ordinance No. 3 of 2000. The ITUM functions under a Board of Management and is expected to physically establish the Institute separately for the independent development of the courses.

Those who completed JTO/NDT are contributing immensely for the development of the nation. The sound education and training given by the NDT course provide the students with the necessary competencies to perform middle level functions in the Engineering/Technology fields and forms a good basis for further education. The recognition earned by the NDT course has made it the 'yard stick' to judge the level of other middle level technological course in the country.

8. Brief Introduction to the NDT Programme.

The primary aim of the course is to produce engineering diplomates required by the industry of our country in various disciplines. The institute conducts the NDT programme in nine disciplines with a total intake of 350. The breakdown is as follows:

Chemical Engineering Technology	-	25
Civil Engineering Technology	-	80
Electrical Engineering Technology	-	40
Electronic and Telecommunication Engineering Technology	-	40
Marine Engineering Technology	-	15
Mechanical Engineering Technology	-	60
Nautical Studies	-	15
Polymer Technology	-	25
Textile and Clothing Technology	-	50

In addition, up to a maximum of five student enrolments are allocated to armed forces and University Non Academic Staff.

The admission to the NDT programme is done through a unique process. Applications are invited by a public advertisement in the government gazette, selected newspapers and the website. The students from three past consecutive G.C.E Advanced levels are eligible to apply. Students are selected on the basis of Z-Scores, district / merit quota (as in the case of university admission), and their preference to different disciplines.

A fully fledged diplomate is initially expected to function as the link between the professional Engineer or Manager and the workforce at the field/shop level. This role requires a diplomate to develop professionally and improve his communication and managerial skills. He /She needs to educate himself/herself in the chosen study field of study so that he/she would be able to appreciate the innovations/designs by the professional engineer and would be able to communicate with the subordinates and make an innovation/design a reality.

Thus the course consists of a two- year academic study period and one year industrial training. The first year subjects are designed mainly to equalize, consolidate and improve the student's knowledge in basic sciences and to introduce the specialized discipline of study to which he/she has been selected. It will also give exposure to some basic skills required in engineering practice (e.g. work shop Technology Engineering Drawing). Each discipline offers one or more field subject/s of the student's chosen field of study. (e.g.) Civil Engineering Department offers Building Construction for the Civil Engineering stream)

English Language is a compulsory subject in the first year due to the following reasons:

- i. Communication plays an important role in a diplomate's career. Therefore students are required to develop their skills in comprehension, speech and report- writing.
- ii. The NDT course is conducted entirely in the English medium. Since most of the students have done their studies in Sinhala or Tamil medium up to the GCE (A/L), their levels of proficiency in the English language vary widely and there is always room for improvement.

The second year subjects mainly include the application of various engineering phenomena in the selected field of study.

The third year is allocated for obtaining the required hands-on experience in the industry. Training at the accepted industrial establishments is organized and monitored by the National Apprenticeship and Industrial Training Authority (NAITA) and the Lecturer in charge of Industrial Training at the ITUM.

At the end of the three years of education and training, the successful students are awarded the National Diploma in Technology with an **Ordinary, Credit** or **Distinction** pass, as per the performance criteria approved by the University.

The tracer studies has revealed that the employability of passing out NDT diplomats is 100% within one year after passing out.

The new academic curriculum now in operation at the ITUM was introduced in the year 2005 for the first year students and in 2006 for the second year students. The purpose was to broaden the knowledge of students in their selected fields of study, while keeping abreast of current technological advances in the industrial world.

Student Admission

Number of Students in academic year as at 31.12. 2012

	1 st Year (2011/2012)	2 nd Year (2010/2011)	3 rd Year (2009/2010)
1. Chemical Engineering Technology	24	23	18
2. Civil Engineering Technology	83	78	61
3. Electrical Engineering Technology	40	40	33
4. Electronic & Telecommunication Engineering Technology	44	40	35
5. Marine Engineering Technology	15	14	17
6. Mechanical Engineering Technology	61	60	44
7. Nautical Studies & Technology	15	18	18
8. Polymer Technology	22	22	15
9. Textile & Clothing Technology	53	45	31
Total	357	340	272

Number of students awarded the National Diploma in Technology for 2008/2009 Batch at the National Diploma in Technology Award Ceremony, Held at the BMICH, on 31.08.2012

1. Chemical Engineering Technology	20
2. Civil Engineering Technology	64
3. Electrical Engineering Technology	32
4. Electronic & Telecommunication Engineering Technology	36
5. Marine Engineering Technology	25
6. Mechanical Engineering Technology	53
7. Nautical Studies & Technology	03
8. Polymer Technology	19
9. Textile & Clothing Technology	37
Total	289

Institute of Technology, University of Moratuwa
NDT 1st Year Examination 2011/ 2012 held in April 2013
Summary of Results

Field	No. Applied	Fail	Fail -E	R1	R2	R3	RR1	RR2	RR3	Pass	E- Pass	Completed	Pass -E	Fail%	Pass %
Chemical- 1st attempt	24	01	-	01	01	-	-	-	-	20	-	-	01	4.17	83.33
Repeat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Referred	15	-	01	-	-	-	04	-	01	-	03	06	-	-	-
Civil - 1st attempt	82	02	-	06	02	02	-	-	-	70	-	-	-	2.43	85.36
Repeat	11	02	02	02	02	-	-	-	-	03	-	-	-	18.18	27.27
Referred	36	-	01	-	01	-	09	05	03	-	03	14	-	-	-
Electrical- 1st attempt	40	01	-	01	01	-	-	-	-	-	35	-	02	2.5	-
Repeat	07	01	01	02	-	-	-	-	-	03	-	-	-	14.28	42.85
Referred	20	-	-	-	-	-	06	-	-	-	04	10	-	-	-
Electronics & Telecommunication- 1st attempt	43	-	-	02	02	-	01	-	-	38	-	-	-	-	88.37
Repeat	01	-	-	-	-	-	-	-	-	01	-	-	-	-	100
Referred	13	-	-	-	-	-	01	-	-	02	04	06	-	-	15
Mechanical- 1st attempt	*56	01	-	05	-	03	01	-	-	43	-	-	02	1.78	76.78
Repeat	09	-	01	02	-	01	-	-	-	03	-	-	02	-	33.33
Referred	21	-	-	-	-	-	08	-	-	01	08	04	-	-	4.76
*1withheld															
Marine - 1st attempt	15	-	-	-	-	-	-	-	-	15	-	-	-	-	100
Repeat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Referred	07	-	01	-	-	-	02	-	-	-	02	02	-	-	-

Field	No. Applied	Fail	Fail -E	R1	R2	R3	RR1	RR2	RR3	Pass	E- Pass	Completed	Pass -E	Fail%	Pass %
Nautical- 1st attempt	15	-	-	-	-	-	-	-	-	15	-	-	-	-	100
Repeat	01	-	-	-	-	-	-	-	-	01	-	-	-	-	100
Referred	02	-	-	-	-	-	02	-	-	-	03	07	-	-	-
Polymer- 1st attempt	22	-	-	-	-	01	-	-	-	21	-	-	-	-	95.45
Repeat	01	-	01	-	-	-	-	-	-	-	-	-	-	-	-
Referred	07	-	01	-	-	-	01	01	-	-	02	02	-	-	-
Textile - 1st attempt	50	01	01	02	-	-	-	-	-	45	-	-	01	2	90
Repeat	08	03	03	-	-	01	-	-	-	01	-	-	-	37.5	12.5
Referred	21	-	-	-	-	-	06	02	-	-	04	09	-	-	-
Total	471	12	15	23	09	08	41	08	04	282	68	60	08		

- Fail - Failure
- Fail-E - Failure including English
- R - Repeat
- RR - Re-Referred
- Pass - Pass the 1st year Examination
- E-Pass - English Pass
- Completed - Completed the 1st year Examination
- Pass-E - Pass the 1st Examination excluding English

Institute of Technology, University of Moratuwa
NDT 2nd Year Examination 2011 / 2012 held in June 2013
Summary of Results

Field	No. Applied	Fail	R1	R2	RR1	RR2	Pass	Completed	Fail%	Pass %
Chemical- 1st attempt	*23	01	02	02	-	-	17	-	4.34	73.91
Repeat	02	02	-	-	-	-	-	-	100	-
Referred	04	-	-	-	01	01	-	02	-	-
* 1 incomplete										
Civil - 1st attempt	*78	13	14	05	-	-	45	-	16.66	57.69
Repeat	29	13	01	02	-	-	13	-	44.82	44.82
Referred	20	-	-	-	07	02	-	11	-	-
*1 cancelled										
Electrical- 1st attempt	*40	04	03	01	-	-	30	-	10	75
Repeat	01	-	01	-	-	-	-	-	-	-
Referred	04	-	-	-	01	-	-	03	-	-
*2 incomplete										
Electronics & Telecommunication- 1st attempt	*40	02	02	02	-	-	33	-	5	82.5
Repeat	03	01	-	-	-	-	02	-	33.33	66.67
Referred	09	-	-	-	03	-	-	06	-	-
* 1 incomplete										
Mechanical- 1st attempt	70	11	12	03	-	-	44	-	15.71	62.85
Repeat	10	02	02	01	-	-	05	-	20	50
Referred	18	-	-	-	4	-	-	14	-	-
Marine - 1st attempt	14	-	-	-	-	-	14	-	-	100
Repeat	02	01	-	-	-	-	01	-	50	50
Referred	04	-	-	-	-	01	-	03	-	-
Nautical- 1st attempt	18	03	-	-	-	-	15	-	16.66	83.33
Repeat	03	-	-	-	-	-	03	-	-	100
Referred	03	-	-	-	-	-	-	03	-	-
Polymer- 1st attempt	*22	03	05	-	-	-	13	-	13.63	59.09
Repeat	-	-	-	-	-	-	-	-	-	-
Referred	02	-	-	-	-	01	-	01	-	-
* 1 incomplete										
Textile - 1st attempt	45	08	05	-	-	-	32	-	17.77	71.11
Repeat	12	06	03	-	-	-	03	-	50	25
Referred	07	-	-	-	03	-	-	04	-	-
Total	483	70	50	16	19	5	270	47	-	-

Fail	-	Failure in Second year Examination
R1	-	Referred in One Subject
R2	-	Referred in Two subjects
RR1	-	Re-Referred One subject
RR2	-	Re-referred Two subjects
Pass	-	Pass the 2 nd year Examination.
Completed	-	Completed the 2 nd year Examination.

Summary Details of Resources and Students

Divisions	Course	Total Student	Total Academic Staff	Total Non Academic Staff
Civil Engineering Technology	Year I	79	Permanent 05 Contract 02 Temporary 03 Visiting 07	01
	Year II	79		
	Year III	74		
Mechanical Engineering Technology and Maritime Studies	Mechanical		Permanent 09 Visiting } 08 Lecturers } Visiting } Instructors } 16 Assistant } Project } Officers } 02 Contract } 05	01
	Year I	59		
	Year II	53		
	Year III	60		
	Marine			
	Year I	14		
	Year II	19		
	Year III	20		
	Nautical			
Year I	13			
Year II	17			
Year III	19			
Polymer, Textile & Chemical Engineering Technology	Polymer		Permanent 11 Visiting } Lecturer } 10 Temporary } Instructor } 04	Temporary 01
	Year I	22		
	Year II	23		
	Year III	17		
	Textile			
	Year I	53		
	Year II	47		
	Year III	44		
	Chemical			
Year I	24			
Year II	24			
Year III	23			
Electrical, Electronics & Telecommunication Engineering Technology	Electrical		Permanent / Visiting Lecturer 14 Temporary } /Visiting } 21 Instructors }	Temporary 01
	Electronics			
	Year I	84		
	Year II	80		
Year III	85			
Interdisciplinary Studies	Year I	350	Permanent 07 Temporary 04 Visiting 02	Temporary 01
	Year II	350		
	Year III	-		

10 Details and Activities of Academic Divisions

10.1 Division of Civil Engineering Technology

1. Introduction

This division delivers National Diploma in Technology (NDT) in field of Civil Engineering Technology and train students in different civil engineering technology fields such as building construction, water supply, irrigation and highway. The diploma holders geared to meet the needs of the industry play an important role that forms a link between Engineers and the rest of the work force in the industry by functioning as middle level technical managers in technical fields.

This division conducted the subjects indicated (with the indicated weekly loads) in Tables 1 and 2 for the NDT first year and second year programme in year 2012.

Table 1 - First Year

Code	Subject	L	T	P	Courses
DCE 101	Building construction and Draughtsmanship	2		3	CE
DCE 102	Engineering mechanics and Strength of materials (only the St. of material part)	1	1/2	1	All
DME 101	Applied thermodynamics and Fluid mechanics (only the Fluid mechanics part)	1	1/2	1	All except Textile & Nautical

Table 2 - Second Year

Code	Subject	L	T	P	Courses
DCE 201	Building construction	2	-	3	Civil Engineering only
DCE 202	Industrial management in civil engineering technology	2	-	-	
DCE 203	Highway construction and maintenance	2	1	-	
DCE 204	Irrigation engineering	2	1	-	
DCE 205	Quantity surveying	2	1	-	
DCE 206	Strength of materials, Hydraulics and Soil mechanics	3	-	2	
DCE 207	Surveying and levelling	2	-	6	
DCE 208	Theory and design of structures	2	3	3	
DCE 209	Water and waste water engineering	2	1	-	

Note: L - number of lecture hours per week

T - number of tutorial hours per week

P - number of practical/ field work/ drawing office hours per week

2. Administration

Dr. Mrs. W.B. M. Thoradeniya continued her duties as the Head of the Division of Civil Engineering Technology for the year 2012. Ms. M.D. Nirosha (Computer Application Assistant) assisted the administrative work of the division.

The Divisional Committee (DC) met on **02** occasions during the year 2012. The DC consists of all the permanent academic staff and two members representing the industry: **Eng. U. C. Pathirana**, Assistant General Manager (Planning and Design) of National Water Supply and Drainage Board and **Mr. Pujitha Uduwana**, Managing Director of Savinda Enterprises (Pvt) Ltd. All temporary staff and visiting lecturers were invited to participate as invitees.

The academic staff in the grades of Lecturer and above contributed to administration by functioning as the members of the Board of Studies. Dr. Mrs. W. B.M. Thoradeniya and Mrs. P.S. Samarasekera contributed for administration by functioning as a member of Board of Management. All academic staff members conducted lectures and those who were appointed as examiners and moderators served in the relevant Boards of Examiners.

3. Academic Activities

The division was approved 12 academic carder positions by 2007 carder allocations. The retirement and resignation of two ETA's reduced this number to ten. The authorities have been informed to allocate new carder post in lieu of such reduced posts.

The retirement and resignation of academic staff in the previous years resulted in having only 06 permanent academic members at the beginning of the year. However, by the end of the year the division had the services of only 03 permanent academic staff members as three members resigned during the year. The balance academic activities were carried out by employing contract, temporary and visiting staff. Academic staff comprised of permanent, temporary and visiting staff as listed under sections 4.1 and 4.2.

The division accomplished all the major academic responsibilities on time despite of the acute shortage of qualified staff, which heavily burdened the remaining staff especially with the academic related other activities.

3.1 Student numbers in the division in year 2012

Table 3 – Student numbers of the division

Course Conducted	Year I	Year II
Civil Engineering Technology	79	79

3.2 Field Visits

The division was able to arrange 03 field visits for the second year students to enhance their theoretical knowledge.

3.3 Survey Camp

The annual survey camp was not held for the NDT second year students as the 2012 academic year could not be completed within the stipulated time due to reasons beyond the division such as Teachers' trade union activities.

3.4 Achievements

Despite the difficulties faced by the division, it continued to produce its annual output of NDT diplomates in Civil Engineering..

3.5 Challenges

The division is grateful to Dr. T A G Gunasekera, the Director of ITUM for continuing to teach the subjects 'Water and waste water engineering' and 'Industrial Management in Civil Engineering Construction' in addition to his heavily burdened workload as the Director. The subjects "Quantity Surveying", "Theory and Design of Structures", "Hydraulics", "Building Construction" and 'Strength of Materials' were handled by visiting lecturers.

Responsibilities of coordination work of some of the important practical classes were shouldered by the experienced temporary instructors. While the gratitude of the division for their services is recorded it is also noted the urgency of staff recruitment to fill the vacancies.

4 Academic Staff

Three academic staff members resigned during the period while one staff member was recruited on contract basis.

- Mrs W. A. Indira (Lecturer-Probationary) resigned from the service on 13.03.2012.
- Dr. (Mrs.) I.N. Jayathilaka resigned from the post of Senior Lecturer Gr. II on 24.07.2012
- Mrs. NPK Semananda resigned from the post of Lecturer (Probationary) on 30.09.2012.
- Mr. K.A.B. Weerasinghe joined the Division as a Lecturer (contract) on 01.04.2012.

4.1 Permanent Staff

The list of academic staff, their divisional responsibilities and the contributions to the ITUM and the university and to the external institutions are given in Table 4.

4.2 Visiting Lecturers, Temporary & Contract Instructors

Visiting Lecturers

- (1) Mr. DA Thevathasan
Qualifications: JTO-Civil
Lecturer In-Charge of Building Construction (Second year)

- (2) Mrs. GWTC Kandamby – from 15th October 2012
 Qualifications: M. Phil Degree, C. Eng.
 Lecturer In-Charge of Quantity Surveying (Second year)
 Building Construction (First year)
- (3) Mr. R.D. Sirisena – up to 5th June 2012
 Qualifications: NDT – Civil, MIIESL
 Lecturer In-Charge of Quantity Surveying (Second year)
- (4) Mr. KU Amarasekera
 Qualifications: JTO – Civil, AMIE-Struct.'Eng.
 Tutorial classes of Theory & Design of Structures (Second year)
 Lecturer In-Charge of Theory & Design of Structures (partly)
 Lecturer In-Charge of Strength of Material
- (5) Mr. R. Karunasena, M.Eng. (Moratuwa),
 Qualifications: AMIESL, NDT (Civil Eng) (H.S.T.I. Amparei)
 Hydraulics and Fluid mechanics (First year)

Temporary Instructors

- (1) Mrs. WS Jayatunga – resigned on 31.07.2012
- (2) Mrs. Harsha Galaboda – In-charge of Tutorial classes in “Water & Waste Water Engineering”, “Quantity Surveying” (Second year) and Practical classes for “Fluid Mechanics” (First Year)
- (3) Mr. HKY Buddhika - Coordinator of Practical classes in Surveying and Levelling (Second year)

Instructors (On Contract basis)

- [1] Mr. HCIA Perera – conducted first year tutorials on “Strength of Materials” and “Fluid Mechanics”

4.3 Staff Participations in Seminars /Workshops etc.

- [1] Dr. T. A. G. Gunasekara, Dr. (Mrs.) W.B.M. Thoradeniya and Mrs. M.M.P.D. Samarasekera – Seminar on ‘Maximising National Productivity for Sustainable Growth’ organized by the organization of Professional Organisations for their Technocal Sessions on 9th October 2012
- [2] Dr. (Mrs.) W.B.M. Thoradeniya - One-day programme on ‘Japanese Experience in Productivity Enhancement’ conducted by National Institute of Labour Studies on 02 Nov. 2012
- [3] Dr. (Mrs.) W.B.M. Thoradeniya - Young Water Professionals Symposium, Nov. 22 & 23 2012 organized by Lanka Jalani (National Water Partnership)

5. *Other Activities*

- [1] One computer and White Board were purchased to the division.
- [2] The Head of the Division organized a Guest Lecture for all NDT second year students on “BUSINESS ETIQUETTE” where the resource person was Mrs. Delrene Boyd, former Senior Assistant to the Managing Director of IMF. The lecture was well attended by the students and staff members of ITUM. The lecture was highly commended for its delivery and the usefulness for the students of ITUM.

6. *Research*

- [1] Dr. Mrs. W.B.M. Thoradeniya
 - (a) Design Phase Stakeholder Management in Building Projects
 - (b) Stakeholder perspectives on water supply systems
- [2] Mr. KAB Weerasinghe
 - (a) Impact of Foreign contractors on the Development of Sri Lankan Construction Industry

7. *Publications*

- [1] Thoradeniya Bhadrani, Malik Ranasinghe and N. T. S. Wijesekera (2012), A Decision Support Tool for Stakeholder Involvement in Sustainable Water Resources Development, Engineer, Journal of the Institution of Engineers, Sri Lanka, Vol. 45, No 4, October 2012
- [2] Weerakkody Y. D. C. and Thoradeniya W. B. M. (2012), Importance of Design Phase Stakeholder Management for successfully achieving objectives of Building Projects: A Sri Lankan Perspective, CIOB World Construction Conference, 28-30 June 2012, Colombo, Sri Lanka
- [3] Weerasinghe, K.A.B. and Ekanayake, L.L., “**Technology Transfer through Foreign Contractors: Enablers and Barriers**”, International Conference on Advances in Civil and Environmental Engineering Practices for Sustainable Development, Faculty of Engineering, University of Ruhuna, Galle, Sri Lanka, March 2012.
- [4] De Silva, P.C.P., Bandara, R.M.P.N.S., and Weerasinghe K.A.B., “**An Equation to Estimate the Demand for Intra-City Travel: A Case Study in Moratuwa City Area**”, International Conference on the Multi-faceted Nature of Research in the 21st Century, University of Kelaniya, Kelaniya, Sri Lanka.

Table 4 - Academic Staff

	Category	Name and Qualifications	Divisional responsibilities	Contribution to ITUM / University	Contribution to external institutions
1	Senior Lecturer- Gr I	Dr. T.A.G. Gunasekera, Ph.D. (Ireland), M.Sc. (First Class Honors) (Ireland), M.Eng. (Moratuwa), NDT (Civil Eng.), MIESL, FIIESL	<ul style="list-style-type: none"> • LIC DCE 202, DCE 209 	<ul style="list-style-type: none"> • Director, ITUM 	<ul style="list-style-type: none"> • Member NEC Standing Committee on Tertiary Technological Education.
2	Senior Lecturer – Gr I	Mrs. W.B.M. Thoradeniya, PhD (Moratuwa), M.Phil (Open University, Sri Lanka), M.Sc (Distinction) (Netherland), PG Diploma (Moratuwa), NDT (Civil Engineering), FIIESL	<ul style="list-style-type: none"> • LIC DCE 204 	<ul style="list-style-type: none"> • Head/ Div. of Civil Engineering • Member BOM • Chairperson, BRD 	<ul style="list-style-type: none"> • Examiner –Department of Technical Education and Training • Council member – Institution of Incorporated Engineers, Sri Lanka • Chairperson, consultative committee, MYASD
3	Senior Lecturer – Gr II	Dr. (Mrs.) I. N. Jayathileke Ph.D (Structural Engineering) (Moratuwa), M. Eng. (Hydraulic Engineering) (Moratuwa), B.Sc. Eng. (Moratuwa)	<ul style="list-style-type: none"> • LIC DCE 208 (until going on leave) 		
4	Senior Lecturer – Gr II	Mrs. M. M. P. D. Samarasekera, M. Phil (Moratuwa), M. Eng. (Environmental Engineering & Management) (Moratuwa), B.Sc. (Eng) (Moratuwa)	<ul style="list-style-type: none"> • LIC DCE 203, DCE 206 (part – soil mech) • Coordinator (P) DCE 206 • DCE 102 (part) 	<ul style="list-style-type: none"> • Member BOM • Member Project Committee–<i>Project of re-location & Development of ITUM at Diyagama</i> 	
5	Lecturer (Probationary)	Mrs. N.P.K. Semananda, M.Sc. (University of South Australia), NDT (Civil Engineering)	<ul style="list-style-type: none"> • LIC DCE 101 		
6	Lecturer (Contract)	Mr. K.A.B. Weerasinghe, B.Sc. (Eng) (Moratuwa)	<ul style="list-style-type: none"> • LIC DCE 207 		

Note: LIC – Lecturer In-Charge

10.2 Division of Electrical, Electronics & Telecommunication Engineering Technology

1. Introduction

This division supports National Diploma in Technology (NDT) course under two programmes; Electrical Engineering Technology and Electronic, and Telecommunication Engineering Technology.

Under these two programmes students are trained in three engineering technology fields; Electrical, Electronic and Telecommunication and they are geared to meet the needs of the industry. The diploma holders play an important role that forms a link between Engineers and the rest of the work force in the industry by functioning as middle level technical managers in the above technical fields.

This division conducted following subjects for the NDT first year and second year programmes in year 2012.

First Year

Code	Subject	L	T	P	Courses
DEE 101	Electro-technology	2	1	2	CH, Civil, ME, NT, Text....
DEN 101	Electronics	2	1	2	EE, EN,MR
DEE 102	Principles of Electricity & Electrical Measurements	2	1	2	EE, EN,MR

Second Year

Code	Subject	L	T	P	Courses
DEE 202	Electrical Machines	2	1	3	EE
DEE 204	Power Controls and Electronics	2	1	3	EE
DEE 205	Power Systems	2	1	3	EE,
DEE 206	Wiring Diagrams & Electrical Constructions	2	1	3	EE,EN
DEN 202	Electronics & Telecommunications	2	1	3	EE
DEN 203	Industrial Electronics & Measurements	2	1	3	EE,EN
DIS 202	Mathematics	2	1	3	EE,EN
DME 204	Industrial Management	2	1	3	EE,EN
DME 208	Power Hydraulics & Fluid Machinery	2	1	3	EE
DEN 201	Electronics	2	1	3	EN
DEE 203	Electrical Machines & Power Systems	2	1	3	EN
DEN 205	Telecommunication I	2	1	3	EN
DEN 206	Telecommunication II	2	1	3	EN
DEN 204	Micro Processor Systems	2	1	3	EN

2. Administration

Mrs. B.A.S.Priyanka continued her term as the Head of the Division of Electrical, Electronics and Telecommunication Engineering Technology. Miss.W.M.V.L.Vaas assisted the administration work of the division as the Computer Application Assistant.

The Divisional Committee (DC) met on 01 occasion during the year 2012. The DC consists of all the permanent academic staff and two members representing the industry. All temporary staff and visiting lecturers were invited to participate in academic duties as invitees.

The academic staff in the grades of lecturer and above contributed to administration by functioning as the members of the Board of Studies. All academic staff members in-charge of lectures served in the relevant Board of Examiners.

3. Academic Activities

12 Cadre positions for academic staff were approved for the division by 2008 carder allocations. However, the division had the services of only 8 academic staff members during the year 2012. The balance academic activities were carried out by employing temporary and visiting staff. Academic staff comprised of permanent, temporary and visiting staff as listed under section 3.4.

There were major setbacks in the academic activities of the division, which could be attributed to acute shortage of resources such as qualified staff and infrastructure subsequent to the official formation of the ITUM.

3.1 Student numbers in the division in year 2012

Course Conducted	Year I	Year II
Electrical Engineering Technology	40	40
Electronics/Telecommunications Engineering Technology.	44	40

3.2 Achievements

3.3 Challenges

The demand for NDT diplomates by industry outnumbered the supply by a large margin. It was observed that practically all NDT Electrical, Electronics and Telecommunication diplomats got employed at the in-plant training period itself. This situation pre-empts an additional intake for Electrical and Electronic disciplines. Further an increase of qualified staff and infrastructure development are also eminent.

3.4 Academic Staff (Permanent) and Activities.

(1) Mrs. S.M.Kannangara continued her full time postgraduate studies in year 2012.

(2) Mrs. D.Y.T.Bambarawanage started her full time postgraduate studies in October 2012.

Lecturer

- (1) Mrs. B.A.S.Priyanka
B.Sc.(Gen.), M.sc.(Moratuwa)

ITUM duties

- Head of Electrical, Electronics & Telecommunication Engineering Technology with effect from 01.09.2010.
- Served on Board of Studies, Board of Examiners.
- Served on TECS, Leave & Awards committee.
- Conducted lectures, tutorials & practicals for DEE 101 (Electro Technology), DEE102 (Principles of Electricity & Electrical Measurements)
- Served in organizing committee of INCO exhibition.
- Served in organizing committee of NDT inauguration programe.

Outside Bodies

- Served on Implant training assessment panels arranged by NAITA.
- Conducted lectures in Physics at National Institute of Fisheries and Nautical Engineering.

- (2) Mrs. S.M. Kannangara
B.Sc.(Special) Hons -

ITUM duties

- Conducted lectures and tutorials for DEN 201 (Industrial Electronics and Measurements)
- Conducted practicals in the Electronics laboratory for DEE101 ,DEN101 & DEN 201
- Served on Board of Examiners
- Study leave with effect from 01.12.2011.

Outside Bodies

- Served on Implant training assessment panels arranged by NAITA

Staff Developments

- Registered for a M.phill at the Department of Electronics & Telecommunication – Faculty of Engineering UOM.
- Participated in a workshop on research competencies conducted by HETC.
- Participate on workshop on Asian Pacific Advanced Networking Technology – at Cineman Grand – Colombo.

(3) Mrs. D.Y.T. Bambarawanage
B.Sc.(Eng), M.Eng., C.Eng., MIE(SL)

ITUM duties

- Conducted lectures and tutorials for DEE 205 (Power Systems), DEE 203 (Electrical Machines & Power Systems).
- Conducted practicals in the Machines laboratory and Power Systems laboratory for DEE 203 (Electrical Machine & Power System), and DEE 205(Power Systems).
- Conducted practicals in the electronics laboratory for DEN 102, DEE 102 (electrical measurement and Electronics), DEE 101 (Principles of Electricity) and DNS 106 (Electronics).
- Set Question papers and corrected answer scripts of NDT 2nd year Examination of DEE 203(New Syllabus), DEE 205 (New Syllabus)
- Served on Board of Studies, Board of Examiners.

Outside Bodies

- Served on Implant training assessment panels arranged by NAITA.
- Served as a Student Counselor.
- Served as a member of several inquiry panels for student clashes.

Staff Developments

- Followed the senior staff development program conducted by the OUSL, Nawala, Nugegoda.
- Registered at the University of Moratuwa to follow a course of M.Phil, Dept. of Electrical Engineering.

Lecturer Probationary

(4) Mrs. M.A.Bibile
B.Sc.(Special), M.Sc.(Westminster-UK)

ITUM duties

- Prepared lecture materials for DEN 201 (Electronics) and DEN 202 (Electronics & Telecommunications)
- Coordinated practicals in the Electronics laboratory
- Prepared specifications for the Electronics laboratory equipments & consumables.
- Updated laboratory experiments for Electronic course.
- Conducted lecturers and examinations on DEN 201(Electronics) and DEN 202(Electronics & Telecommunications)

Outside Bodies

- Served on In plant training assessment panels arranged by NAITA

Staff Developments

- Completed the certificate in Teaching in Higher Education conducted by Staff Development Centre, University of Colombo and obtained SEDA accreditation.
- Participated in a workshop on Research competencies conducted by HETC.

Maternity Leave

- On maternity leave with effect from 09-11-2012.

(5) Mr. G.A.M.D.Wickramathilaka
B.Sc.(Eng) Hons. AMIE (SL)

ITUM duties

- Supervised and conducted practical classes on the following subjects
 - (i) DEE 204 Power control and Electronics
 - (ii) DEE 205 Wiring Diagrams & Electrical Installation.
- Conducted lectures on the following subjects
 - (i) DEE 205 Wiring Diagrams and Electrical Installation
 - (ii) DEE 204 Power control and Electronics
 - (iii) DEE 201 Applied Electricity
- Served as the Senior Treasurer of the NDT students union.
- Inspected student at in-plant training.
- Served in organizing committee of INCO exhibition.
- Served in organizing committee of NDT inauguration programe.

Staff Developments

- Participated in CTHE course conducted by University of Colombo.

Outside Bodies

- Served on In plant training assessment panels arranged by NAITA

- Served on course evaluation committees arranged by NAITA.
- Served as a member of the committee for preparation NDT training students on Electrical Engineering Technology.

(8) Eng. Gamini D. Nanayakkara,
B.Tech(Eng), EC(UK), FTC(UK), MIE(SL),C.Eng(SL), MIEE(UK),C.Eng(UK), FII(SL),
MIGA(USA).

ITUM Duties

Conducted lectures, tutorials and examinations on the following subjects,

- (i). DEN 205 Telecommunications I
- (ii). DEN 206 Telecommunications II

Staff Developments

- Following Post graduate Mphil/ PhD program. 2 years completed on progress.

Outside Bodies

- Served on In plant training assessment panels member arranged by NAITA.
- TEC Panel member ITUM.
-

(9) Mr.T.M.Asalam
B.Tech(Eng), AMIE(SL)

ITUM Duties

Conducted lectures on

- (i) DEE 101 Electro technology
- (ii) DEN 101 Electronics

Supervised practicals on

- (i) DEN 101 Electronics
- (ii) DEN 203 Industrial Electronics & Measurements
- (iii) DEN 204 Micro Processor Systems

3.5 Visiting Lecturers and Temporary Staff

Visiting Lecturers

- 1) Mr. D.A.Wickramasinghe
- 2) Mr. S.A.Amarawansa
- 3) Mr. U.C.Botheju
- 4) Mr. K.S.Asanga
- 5) Mr. M.B.Pillai
- 6) Mr. D.G.U.Solangaarachchi

Visiting Instructors

- 1) Mr. K.G.Wimalasiri
- 2) Mr. K.S.K.Weranga
- 3) Mr. R.M.C.R.K.Rathnayaka
- 4) Mr. M.W.T.H.De Silva
- 5) Mr. S.B.A.Kumara
- 6) Mr. H.K.C.B.Heendeniya
- 7) Mr. S.Ariyasinghe
- 8) Mr. A.G.P.A.Pradeep
- 9) Mr. K.H.D.Priyanka
- 10) Ms. S.H.Thennakoon

Temporary Instructors

- 1) Mr. K.D.C.N. Jayawardana
- 2) Mr. N.G.L. Chandimal
- 3) Ms. P.D.Jayalath
- 4) Mr. A.A.S.N.Jayalal
- 5) Mrs. M.A.R.Chithranganie
- 6) Mr. B.H.N.C.P.Buwanekabahu
- 7) Mr. P.D.N.Senarathne
- 8) Mr. R.M.P.Fernando
- 9) Mr. K.R.S.Chandana
- 10) Mr. K.H.D.Priyanka
- 11) Mr. S.B.A.Kumara
- 12) Ms. W.D.Sanjeewani

Other Activities

Procurement of Computers / Lab Equipment / Library books / office equipment

Research

Following staff members conducted research either as a requirement for their promotions, or for self interest.

Staff member	Degree	Research Title
Mrs. S.M.Kannangara	M.Phil/ PhD	An Augmented Reality Surgical Simulator for Laparoscopic Cholecystectomy
Mrs. D.Y.T.Bambarawanage	M.Phil	Under frequency lode shedding for power systems with high variability and uncertainty

10.3 Division of Mechanical Engineering Technology & Maritime Studies

1. Introduction

The Mechanical Engineering Technology & Maritime Studies Division awards the National Diploma in Technology (NDT) under three programmes; namely Mechanical Engineering Technology, Nautical Studies and Marine Engineering Technology.

These three programmes train students in three Engineering Technology fields and the syllabi of these programmes have been drafted to meet the needs of the industry. The diploma holders play an important role that forms a link between Engineers and the rest of the work force in the industry by functioning as middle level technical managers in technical fields. Further after obtaining higher qualification or gaining experience in relevant field the diplomats will be qualified to be appointed in senior managerial posts.

The revised curriculum was followed by first year and second year students. The part time certificate course on short course on Preparatory Course for Officer in-Charge of the Engineering Watchkeeping – 750kw or More is also conducting by this division.

The National Diploma in Technology course for Mechanical Students are conducted for three years where the first two years at the institution and the third year in plant training in an outside organization. The Marine Engineering Technology programme is conducted in similar manner and the Nautical Studies programme is conducted with a sea training experience during the second year.

This division conducted the following subjects for the NDT first year and second year programmes related to the aforesaid fields.

First Year – Mechanical

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DIS 103	Mathematics	3	1	-
DIS 101	English	2	1	-
DME 101	Applied Thermodynamics & Fluid Mechanics	2	2/2	2/2
DME 102	Automobile Technology	2	-	3/2
DEE 101	Electro-technology	2	1	2/2
DME 103	Engineering Drawing	1	-	3
DCE 102	Engineering Mechanics & Strength of Materials	2	2/2	2/2
DIS 102	Introduction to Information Technology	1/2	-	1/2
DCH 102	Properties of Materials	2	-	-
DME 104	Workshop Technology I	1	-	3
	Total	18	5	10.5

Second Year – Mechanical

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DIS 202	Mathematics	2	1	-
DME 204	Industrial Management	2	-	-
DEE 204	Applied Electricity	2	1	3/2
DME 201	Applied Thermodynamics II	2	1	3/3
DME 202	Engineering Drawing & CAD	1	-	3
DME 203	Engineering Mechanics & Machine Design	2	2	3
DME 205	Manufacturing Technology	2	-	9
DME 206	Pneumatic Controls & Instrumentation	1	-	3/6
DME 207	Power Hydraulics & Fluid Machinery	2	-	3/6
	Total	16	5	18.5

Total Weekly Time Allocation First Year - 32.5 hours

Second Year - 39.5 hours

First Year - Nautical Studies

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DIS 103	Mathematics	2	1	-
DIS 101	English	2	-	1
DNS 101	Cargo Work & Seamanship I	2	-	1
DEE 101	Electro-technology	2	1	2/2
DCE 102	Engineering Mechanics & Strength of Materials	2	2/2	2/2
DNS 102	General Ship Knowledge	2	-	-
DIS 102	Introduction to Information Technology	1/2	-	1/2
DNS 104	Meteorology I	2	-	-
DNS 105	Navigation I	4	-	2
DNS 103	Marine Operation I	2	-	1
	Total	21	3	7

Second Year - Nautical Studies

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DIS 201	English	2	-	-
DNS 201	Cargo Work & Seamanship II	3	-	6
DNS 202	Electronic Navigation Systems	2	-	-
DNS 203	Marine Operation II	2	-	2
DNS 204	Meteorology II	2	-	-
DNS 205	Navigation II (Celestial)	2	-	3
DNS 206	Navigation II (Coastal)	1	-	3
DNS 207	Ship Construction	2	-	-
DNS 208	Ship Stability	2	-	-
	Total	18	-	14

Total Weekly Time Allocation**First Year - 31.0 hours****Second Year - 32.0 hours**

First Year – Marine Engineering Technology

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DIS 103	Mathematics	3	1	-
DIS 101	English	2	1	-
DME 101	Applied Thermodynamics & Fluid Mechanics	2	2/2	2/2
DEE 102	Electrical Measurement & Basic Electronics	2	1	2/2
DME 103	Engineering Drawing	1	-	3
DCE 102	Engineering Mechanics & Strength of Materials	2	2/2	2/2
DIS 102	Introduction to Information Technology	1/2	-	1/2
DMR 101	Marine Engineering Knowledge	4	-	-
DEE 103	Principles of Electricity	2	1	2/2
DME 104	Workshop Technology I	1	-	3
	Total	19	6	10

Second Year – Marine Engineering Technology

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practicals
DMR 201	Engineering Knowledge (General)	3	-	3/3
DMR 202	Engineering Knowledge (Motor)	2	1	3/3
DMR 203	Instrumentation and Control Systems	2	-	-
DMR 204	Marine Engineering Drawing	1	-	2
DMR 205	Maritime Safety and Law	1	-	-
DME 206	Mechanical Engineering Technology	2	2	3/3
DMR 206	Naval Architecture and Ship Construction	4	-	-
DMR 207	Ship Board Electrical Systems	1	-	-
DME 209	Workshop Technology II	2	-	4
	Total	18	3	9.0

Total Weekly Time Allocation **First Year** - **35.0 hours**
Second Year - **30.0 hours**

2. Administration

Head of the Division Eng. KM Ranasiri and Ms. IU Samaranyake assisted the Clerical & Computer Application Assistance work of the Division.

The Divisional committee met on four occasions during the year 2012. All academic staff members contributed to administration by functioning as the members of the Board of studies. Further, the Management Representative called meetings as a requirement for ISO certification. All academic staff members in-charge of lectures served in the relevant Board of Examiners.

3. Academic Activities

A academic staff member (Mr. JMP Gunasekara) was on study leave to earn a MPhil and Ms. RIK Chandrasena Contract lecturer assumed the duties on 01-06-2012 and now division had the services of eight permanent academic staff members.

3.1 Student numbers in the division in year 2012

Course Conducted	Year 1	Year 2	Year 3
Mechanical Engineering Technology	60	56	53
Nautical Studies	15	17	17
Marine Engineering Technology	15	14	19

3.2 Achievements / Challenges

The division was able to arrange several field visits for both first year and second year students to make them aware of field related industries.

The part time certificate course on Preparatory Course for Officer in-Charge of the Engineering Watchkeeping - 750kw or More and the duration of the three months and detailed syllabi for the Second and Chief Engineers were submitted to the Ministry for approval.

The curriculum was revised. Topics relevant to the existing demands and the changes in the maritime field have been started to include in the syllabi to meet the requirements of the industry. Also updating of Lecturer Notes of Maritime Studies to cater for the requirements of the maritime industry was also started.

3.4 Academic staff (Permanent) and Activities.

a) Eng. KM Ranasiri (Senior Lecturer Gr.II)

B.Sc.(Eng.) (Moratuwa), PG Dip. in Industrial Engineering, MIAE (SL), C.Eng., MIE (SL), M.Tech (Industrial Engineering)

- Conducted Lectures and Practical in the following subjects
 - DME 104 -Workshop Technology I - NDT 1st Year Common Subject
 - DME 209 -Workshop Technology II - NDT 2nd Year Marine Subject
 - DME 205 - Manufacturing Technology - NDT 2nd Year Mechanical Subject

In addition, he was involved in other activities as,

- Head of the Mechanical Engineering Technology & Maritime Studies Division
- Member of the Board of Studies
- Student Counselor
- Chairman of Seat arrangement for Award Ceremony
- Short Course Director

b) Dr. AM Muzathik (Senior Lecturer Gr.I)

B.Sc.(Eng)(Hons), M.Eng. (Energy), PhD (Maritime Technology) CMar.Sci(UK), CEng(SL),MIAE(SL), MIE(SL),FIMarEST

- Conducted lectures and practical in the following subjects
 - DME 203 – Engineering Mechanics & Machine Design - NDT 2nd year
 - DME 209 – Workshop Technology II - NDT 2nd year
 - DME 205 – Manufacturing Technology -NDT 2nd year

In addition, he was involved in other activities as,

- Member of the Board of Studies
- Chairman Research Standing committee
- Short Course Coordinator

c) Eng. MIRT Fernando (Senior Lecturer Gr.II)

Grad.M.I.Mech E (UK), MBA, M.I.M.(SL), LL.B., MIE (SL), Attorney-at-Law, Chartered Engineer

- Conducted lectures and practical in the following subjects
 - DME 204 – Industrial Management - NDT 2nd year Common subject
 - DME 104 – Workshop Technology I - NDT 1st year Common subject

In addition, he was involved in other activities as,

- Member of Board of Studies

d) Mr. GG Jayarathne (Senior Lecturer Gr.I)

M.Sc.(Marine/Mech.Eng),M.Phil.(Marine/Mech.Eng),CEng(UK),IMarEST(UK), CMarEng(London), MSNAME (USA), MBE (UK)

- Conducting Lecturers and practical classes in following subjects

- DMR 101 - Marine Engineering Knowledge - NDT 1st Year Marine
- DMR 204 - Engineering Drawing - NDT 2nd Year Marine
- DMR 206 - Ship Construction - NDT 2nd Year Marine

In addition, he was involved in other activities as,

- Member of the Board of Studies
- Chairman of Corporate Planning Committee

e) Mr. JMP Gunasekara (Lecturer) (Study Leave)

B.Sc.(Eng.) (Moratuwa), PG Dip. in Manufacturing Technology (Moratuwa), MIE (SL), AMIE (SL)

- Conducting Lecturers and practical classes in following subjects
 - DME 203 - Engineering Mechanics - NDT 2nd Year Marine/Mechanical
 - DME 206 - Pneumatic Control & Instrument - NDT 2nd Year Marine/Mechanical

In addition, he was involved in other activities as,

- Member of the Board of Studies

f) Mrs. NV Kularathne (Lecturer)

B.Sc.(Eng.) (Peradeniya), M.Sc. (Comp.Sc.) (Colombo), MIE (SL), AMIE (SL)

- Conducting Lecturers and practical classes in following subjects
 - DME 201 - Applied Thermodynamics II - NDT 2nd Year Marine
 - DMR 204 - Marine Engineering Drawing - NDT 2nd Year Marine
 - DME 203 - Machine Design - NDT 2nd Year Mechanical

In addition, she was involved in other activities as,

- Member of the Board of Studies
- Chairman of timetable committee

g) Mrs. JB Samarasinghe (Senior ETA)

B.Sc.(Eng.) (Moratuwa)

- Conducted lectures and practical in the following subjects
 - DCE 102 - Engineering Mechanics - NDT 1st Year Common Subject

In addition, she was involved in other activities as,

- Member of the Board of Studies

h) Miss. B Balasumramaniam (ETA) (Not reported for the Duties after August 2012) *B.Sc.(Eng.) (Moratuwa)*

- Conducted lectures and practical in the following subjects

- DME 207 - Power Hydraulics & Fluid Machinery - NDT 2nd Year
Common Subject

In addition, she was involved in other activities as,

- Member of the Board of Studies

i) Mr. PDC Kumara (Lecturer Probationary)

B.Sc.(Eng.) (Moratuwa)

- Conducted lectures and practical in the following subjects
 - DME 101- Applied Thermodynamics - NDT 2nd Year
 - DME 207 - Power Hydraulics & Fluid Machinery - NDT 2nd Year
Common Subject
 - DME 202 - Engineering Drawing & CAD - NDT 2nd Year Mechanical

In addition, he was involved in other activities as,

- Member of the Board of Studies
- Management Representative

j) Mrs. RIK Chandrasena (Contract Lecturer)

B.Sc.(Eng.)Hon (Moratuwa)PG(Dip)

- Conducted lectures and practical in the following subjects
 - DME 103 - Engineering Drawing - NDT 1st Year Common Subject
 - DME 202 - Engineering Drawing & CAD - NDT 2nd Year Mechanical

k) Dr. WK Wimal Siri (Assignment Basis-02.01.2012 to 31.12.2012) – 60 hours per year
B.Sc. Eng. (Moratuwa), PhD (Newcastle upon Tyne), AMRINA (London)

- Conducted lectures in the following subjects
 - DMR 206 - Naval Architecture - NDT 2nd Year Marine
 - DNS 208 - Ship Stability - NDT 2nd Year Nautical

l) Mr. DM Keerthirathna (Junior Consultant)

BTech, MSc.

- Conducted practical in the following subjects
 - DME 103 - Engineering Drawing - NDT 1st & 2nd Year Common Subject
 - DCE 102 - Engineering Mechanics - NDT 1st Year Common Subject
 - DME 203 - Engineering Mechanics - NDT 2nd Year Mechanical

3.5 Visiting Lecturers / Temporary Staff

Visiting Lecturers

S/No	Visiting lectures	Hours per year
1.	Dr. MV Mendis	60
2.	Mr. IDS Waidyasekara	120
3.	Mr. NKT Abeynayake	150
4.	Mr. NAG Abeywardana	120
5.	Mr. G Jayanthan	104
6.	Ms. RIK Chandrasena (31.05.2012)	16
7.	Mr. AJ Victor	20
8.	Mr. KMD Rathnasuriya	120
9.	Mr. AD Punnyadasa	80

Visiting Instructors

S/No	Visiting Instructors	Hours per year
1.	Dr. MV Mendis	60
2.	Mr. NKT Abeynayake	150
3.	Mr. IDS Waidyasekara	420
4.	Mr. TWDY Wijayarathne	360
5.	Mr. BMD Jayasundara	480
6.	Mr. AK Maharachchi	750
7.	Mr. AJ Victor	450
8.	Mr. HAJA Kumara (31.03.2012)	36
9.	Ms. RIK Chandrasena(31.05.2012)	48
10.	Mr. G Jayanthan (31.05.2012)	240
11.	Com. DP Nandasiri	60
12.	Mr. KMD Rathnasuriya	420
13.	Mr. AHM Ziyard	570
14.	Mr. S Sakthithasan (31.05.2012)	400
15.	Mr. AD Punnyadasa	280
16.	Mr. SHCS Kumara	320

Assistant Project Officers

Out of these 5 officers 3 officers have been engage in a given point of time right though out the year.

S/No	Name	Hours Per Week
1.	Capt. LS Dissanayake	08
2.	Capt. AMSP Arampath	06
3.	Capt. ADP Manodara	06
4.	Capt. G Navaratnarajah	06
5.	Capt. SM Kankanamge	06

Note : IMarEST Lectures are conducting lectures on professional subjects (Nautical & Marine 2nd Year Subjects except Ship Construction)

Temporary Staff

Three temporary instructors extended their support to carry out the practical and tutorial classes.

Temporary Instructors

1.	Ms. K Katheesan (01.04.2012)
2.	Mr. S Abeygunasekara (30.05.2012)
3.	Mr. BNEM Mendis (31.06.2012)
4.	Mr. RKA Rathnayake (From 01.07.2012 to 31.12.2012)

1. Other Activities

- ISO certification Audit was conducted
- Shipping Ministry MSD Audit was conducted
- Officer in-Charge of the Engineering Watchkeeping – 750kw or More Course was conducted

2. Research All the Academic staff members are involved with research activities

3. Publications

4. Staff participation in seminars/workshops etc.

10.4 Division of Polymer, Textile & Chemical Engineering Technology (ITUM)

1. Introduction

This division delivers National Diploma in Technology (NDT) under three programmes, Polymer Technology, Textile & Clothing Technology and Chemical Engineering Technology.

These three programmes train students in three engineering technology fields; Polymer, Textile & Clothing and Chemical and they are geared to meet the needs of the industry. The diploma holders play an important role that forms a link between Engineers and the rest of the work force in the industry by functioning as middle level technical managers in technical fields.

The revised curriculum was followed by both first year and second year students. The part time certificate course on Polymer Technology was also conducted by the division during weekends.

This division conducted the following subjects for the NDT first year and second year programmes.

First Year

Code	Subjects	L	T	P	Courses
DCH 102	Properties of Materials	2	-		CH,CE, ME,EE,EN,TT,PT
DPT 101	Polymer Science and Technology	2	1	3/2	PT
DTT 101	Raw Material and Fiber Science	2	-	3/3	TT
DTT 102	Yarn Manufacture	2	1	3/3	TT
DCH 101	Process Engineering Technology	2	-	3	CH

Second Year

Code	Subjects	L	T	P	Courses
DPT 201	Latex Technology	2	1	3	PT
DPT 202	Manufacturing Technology of Rubber Products	2	1	3/3	PT
DPT 203	Polymer Engineering and Process Control	2		-	PT
DPT 204	Manufacturing Technology of Plastic Products	2	1	3/3	
DPT 205	Polymer Science	2	1	-	PT
DPT 207	Polymeric Materials	2	1	-	PT
DPT 208	Quality Control and Testing of Polymers and Polymer Products	2	1	3/3	PT

DTT 201	Coloration and Finishing Technology	2	1	3/3	TT
DTT 202	Knitting Technology	2	-	3/3	TT
DTT 203	Product Initiation	2	-	6	TT
DTT 204	Production Organization and Management	2	1	-	TT
DTT 205	Statistics & Quality Control	2	1	-	TT
DTT 206	Textile Testing and Equipment Technology	2	-	2x 3/3	TT
DTT 207	Weaving Technology	2	-	2x 3/3	TT
DCH 201	Environmental Technology and Occupational safety	2	-	3/3	CH
DCH 202	Fuels & Lubricants	2	1	3/2	CH
DCH 203	Heat & Mass Transfer	2	1	3/3	CH
DCH 204	Instrumentation and Process Control	2	-	-	CH
DPT 206	Polymer Technology	2	1	3/3	CH
DCH 205	Separation Processes	2	1	3/2	CH

2. Administration

Ms. S.L.Jayasuriya continued her term as the Head of the Division. Ms.P.A.D.K.N.Abeysinghe assisted the Clerical & Computer Application Assistance work of the Division.

The divisional committee met on five occasions during the year 2012. All academic staff members contributed to administration by functioning as the members of the Board of studies. All academic staff members in-charge of lectures served in the relevant Board of Examiners.

3. Academic Activities

The division had the services of eleven academics staff members. Out of the ten academic staff members, there were on study leave but they contributed to carry out the academic work.

3.1 Student numbers in the division in year 2012

Course Conducted	Year 1	Year 2
Polymer Technology	22	22
Textile and Clothing Technology	52	45
Chemical Engineering Technology	24	24

3.2 Achievements / Challenges

The division was able to arrange several field visits for both first year and second year students to make them aware of the field related industries in the three fields.

3.4 Academic staff (Permanent) and activities.

Senior Lecturer - Grade II

m) Ms.S.L.Jayasuriya

B. Text.(Baroda), M.Sc.(Leeds), CText., FTI

She delivered lectures and conducted practicals in the following subjects

- DTT 207 Weaving Technology
- DTT 202 Knitting Technology

In addition, she was involved in other activities as,

- Member of the Board of Studies
- Secretary of the Textile Institute Sri Lanka - section
- Visiting Lecturer, Department of Textile and Clothing Technology, University of Moratuwa, for B.Sc.Engineering Course.
- Coordinator to present students projects to INCO exhibitions.
- Coordinator for arranging inplant training placement in the industry for students following NDT course.
- Coordinator for selection of overall best student award, awarded by MAS Holdings.

**n) Ms.K.M.W.Abeykoon
(On study leave)**

B.Sc. (Eng.) (Moratuwa), M.Phil.(Kelaniya), CText., ATI

She delivered lectures conducted practicals in the following subjects,

- DTT 204 Production Organization and Management
- DTT 206 Textile Testing Equipment Technology (Practicals)

In addition, she was involved in other activities as,

- Member of the Board of Studies.
- Visiting Lecture for the M.Sc. Course on Textile & Clothing Engineering conducted by the Faculty of Engineering University of Moratuwa.

Lecturer

o) Ms.P.N.P.Fonseka

Dip. in Petroleum Processing & Petrochemical Industry (Rumania)
M.Sc. (Brad), AMIE (SL), AMI Chem.E. (UK)

She delivered lectures in the following subjects

- DCH 102 Properties of Materials
- DCH 101 Process Engineering Technology
- DCH 202 Fuels and Lubricants
- DCH 205 Separation Processes.

Further, she conducted practicals in Process Engineering Technology, Fuels & Lubricants, Separation Processes and Heat & Mass transfer.

In addition, she was involved in other activities as,

- Member of the Board of Studies
- Student councilor
- Visiting Lecturer at Ocean University, Mattakkuliya

p) Mr.M.D.S.A.Amarasiri

B.Sc. (Ruhuna), Certificate in Polymer Technology, M.Sc. (Moratuwa)

He delivered lectures and conducted practicals in the following subjects

- DPT 208 Quality Control and Testing of Polymers and Polymer Products.
- DPT 202 Manufacturing Technology of Rubber Products

In addition, he was involved in other activities as,

- Research work for a M.Phil.Degree.
- Industrial Training Coordinator of the Polymer Division
- Member of the Board of Studies.

Lecturer (Probationary)

q) Mrs. W.P.S.K.Perera

(On study leave)

B.Sc. (Eng.) (Moratuwa), M.Sc. (in progress)

She delivered lectures in the following subjects

- DTT 203 Product Initiation

Further, she conducted practicals in Equipment Technology and Product Initiation.

In addition, she was involved in other activities as,

- Research work for a M.Sc Degree
- Visiting Lecturer, Department of Textile & Clothing Technology, University of Moratuwa.

r) Ms.M.C.W.Somaratne

B.Sc. (Special in Chemistry) (Peradeniya), M.Sc. in Polymer Science and Technology (Sri Jayawardhanapura)

She delivered lectures in the following subjects

- DPT 101 Polymer Science & Technology
- DPT 201 Latex Technology

Further, she conducted practical classes in the subjects of Polymer Science & Technology and Latex Technology.

In addition, she involved in other activities as,

- Research work for a PhD Degree
- Visiting Lecturer for the part-time certificate course in Polymer Technology.
- Visiting Lecturer for the Rubber Graduate ship course conducted by the Institute of Plastic and Rubber.
- Member of the Board of Studies

s) Mrs.G.K.Jayatunga

B.Sc. (Eng.) (Moratuwa), M.Sc. (Moratuwa), AMIE(SL)

(On study leave)

- Delivered lectures in the subject DCH 201 Environmental Technology & Occupational Safety

t) Mr.H.D.S.S.Karunarathne

B.Sc. (Eng.) (Moratuwa)

He conducted lectures and practicals in the following subjects

- DCH 102 Properties of Materials
- DCH 204 Instrumentation and Process Control
- DCH 201 Environmental Technology and Occupational Safety

Senior Engineering Teaching Assistant

Engineering Teaching Assistant -Grade I

u) Mr. A.H.L.K.Amarasekara

B.Sc. (Sri Jayawardhanapura), PG Dip. in Text. Tech. (Moratuwa), M.Sc. in Textile & Clothing Management at University of Moratuwa.

He conducted lectures and practicals in the following subjects,

- DTT 201 Colouration and Finishing Technology
- DTT 101 Raw Materials & Fiber Science
- DTT 206 Textile Testing

In addition, he was involved in other activities as,

- Industrial Training Coordinator of the Textile Division.
- Coordinator Inco Exhibition.
- Visiting Lecturer, Department of Textile & Clothing Technology, University of Moratuwa.

Contract lectures

a) Ms. A.M.M.I.Abeykoon

(Appointed 01.06.2012)

BIS (Open University), M.Sc. (in progress)

She delivered lectures in the following subjects,

- DTT 206 Equipment Technology
- DTT 203 Product Initiation

Further, she conducted practicals in Product Initiation, Textile Testing and Fabric Structure.

b) Ms. A.D. Weerakoon

(Appointed 01.02.2012)

B.Sc. (Special) (Sri Jayawardhanapura), M.Sc. (Sri Jayawardhanapura)

She delivered lectures in the following subjects

- DPT 205 Polymer Science

- DPT 207 Polymeric Materials
- Further, she conducted practicals in Polymer Science & Technology and Latex Technology.

In addition, she was involved in other activities as,

- Conducted practicals for the part-time certificate course in Polymer Technology.
- Supported to conduct the final examination for the part-time certificate course in Polymer Technology.
- Published a abstract on the research topic “Improvement of cure characteristics and physical properties of EPDM by incorporating skim rubber” at International symposium on Polymer science and Technology 2012 at University of Sri Jayewardenepura.

3.5 Visiting Lecturers / Temporary Staff

Visiting Lecturers

	Name
5. Polymer Technology Division	Dr.(Mrs.) Olga Gunapala
	Dr.M.A.B.Prashantha
	Prof.K.Subramanium
6. Chemical Eng. Technology	Dr.(Mrs.) Olga Gunapala
	Mr.S.Wijayasinghe
	Dr.M.A.B.Prashantha
7. Textile Technology	Mr.M.Y.A.Perera
	Dr.W.D.G.Lanarolle
	Mr.R.P.Abeysooriya
	Dr.S.Fernando
	Mr.A.L.Kulasekara
	Ms.R.P.C.D.P.Priyarathna
	Mr.L.K.Lenaduwa

Visiting Instructors

	Name
1. Textile Technology	Mr.W.A.D.R.Weerakoon
	Mrs.R.L.C.Premathilaka
	Mr.R.P.Abeysooriya

Temporary Instructors

- a) Ms. G.B.C. Gamhewa
- b) Ms.N.D.I.K.Kumarage
- c) Ms.D.G.P.M.Perera
- d) Ms. A.M.M.I.Abeykoon (01.02.2012 to 31.05.2012)
- e) Ms. A.D. Weerakoon (02.01.2012 to 31.01.2012)

2. Research

Staff member	Research Title
a) Mr.H.D.S.S.Karunarathne	<ul style="list-style-type: none">• Investigation of stability of anaerobic digestion in plug flow reactors by mathematical modelling.

3. Publications

a) Ms.M.C.W.Somarathne

- Somaratne M.C.W., Liyanage N.M.V., & Walpalage S. (2012). *Contribution of Hydrogen Bonds and Coupling Reactions on Reinforcement of Natural Rubber Latex Films with Surface Modified Silica*. Paper presented at the First International Conference on Advanced Materials, Science and Engineering (ICAMSE'12).
- Somaratne M.C.W., Liyanage N.M.V., & Walpalage S. (2012). Reinforcement of Natural Rubber Latex Films through Surface Modified Silica with Macromolecular Coupling Agent [Electronic Version]. *Asian International Conference on Materials, Minerals, and Polymer (MAMIP 2012), Part 2*, 444-452,
- Somaratne M.C.W., Liyanage N.M.V., & Walpalage S. (2012). *Surface Modification of Silica with Hydrophilic Polymer and Its Influences on Reinforcement of Natural Rubber Latex*. Paper presented at the International Symposium on Polymer Science and Technology

b) Mr.H.D.S.S.Karunarathne

- H.D.S.S.Karunarathne, B.M.W.P.K.Amarasinghe, Fixed bed Adsorption Column Studies for the Removal of Aqueous Phenol from Activated Carbon Prepared from Sugarcane Bagasse. **10th Eco-Energy and Materials Science and Engineering Symposium**, Ubon ratchathani, Thailand, December 5-8. 2012
- H.D.S.S.Karunarathne, S.Walpolage, Applicability of pressure retarded osmosis power generation technology in Sri Lanka. **10th Eco-Energy and Materials Science and Engineering Symposium**, Ubon ratchathani, Thailand, December 5-8. 2012

10.5 Division of Interdisciplinary Studies

Introduction

The Division of Interdisciplinary Studies was formed with the establishment of the Institute of Technology of the University of Moratuwa in October 2000. The Division conducts courses in the subjects, English, Mathematics and Computer Science for the National Diploma in Technology Students. The academic staff of the Division includes several experienced teachers who had been serving in the Faculty of Engineering prior to the establishment of the institute.

Mathematics courses offered by the Division emphasize on teaching the basic concepts of Mathematics, the development of rational thinking in formulating and solving engineering and technical problems and the application of mathematical knowledge in solving practical problems. During the first year 3 hours of lectures and a one-hour tutorial class is allocated per week to teach the basic concepts of Mathematics (including statistics) which would enable students to apply mathematical knowledge in solving practical problems of the field subjects. Student's proficiency is assessed continuously by the assignments given in the tutorial classes during the course of the year.

During the second year the Division conducts two hours of lectures and a one hour tutorial class in mathematics per week with the aim of providing students further knowledge in Mathematics (Including Statistics) which will be useful for students in formulating and solving engineering and technical problems in their careers. Mathematics staff in the division covers Quality control and Statistic part of the Testing, Quality Control and Statistics subject for Textile Technology second year students. As Textile Industry needs more Statistics and Quality Control. This course is specially design for Textile Technology Students.

English courses conducted by the Division place emphasis on English for technological studies as well as English for general communication. A Foundation course in English is conducted for all newly admitted students annually, prior to the commencement of the 1st year academic programme. The duration of the course is usually 06 – 07 weeks. Thereafter, three hours per week is allocated for the subject in the NDT first year timetable. Students' proficiency is assessed by a scheme of continues assessments. During the second year an English course is conducted (two hours per week) for Marine and Nautical studies students. Course material produced by the staff is used in English classes and students are given the opportunity to master the different skills of learning the language.

The Division offers the course, Introduction to Information Technology to all first year students with the objective of imparting a basic knowledge of Information Technology and Computer Science. A foundation course in Information technology is offered to a selected number of students prior to the commencement of the academic programme. A one-hour lecture and a one hour practical/tutorial class are allocated per week for the subject during the first year. A continuous assessment process is carried out to assess students' knowledge.

Courses Conducted by the Division

First Year

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practical
DEL101	English	2	-	1
DIS 102	Introduction to Information Technology	1	-	1
DIS 103	Mathematics	3	1	-

Second Year

Code	Subjects	Weekly Workload		
		Lectures	Tutorials	Practical
DIS 201	English (for Marine & Nautical Std.)	2		
DIS 202	Mathematics	2	1	-
DTT 201	Textile testing , Quality Control and Statistics	1	1	-

2. Administration

Mrs. P.S. Yatapana continued her duties as the Head of the Division during the year 2012. The staff met occasionally to discuss academic and general issues pertaining to the Division. All permanent, temporary and Visiting Staff together with one member representing Industry participated at these divisional meetings.

The academic staff contributed to the administration by functioning as members of the Board of Studies and as members of different committees from time to time. All academic staff members served in the relevant Board of Examiners.

Division organized a special program to celebrate "International day of the girl child". It was a workshop participated by both male and female students and was conducted by a senior professional counsellor, Mrs. Sheela de Silva to inculcate values and morals among students. Participation of both male and female students contributed in cultivating the value of sisterhood and brotherhood.

3. Academic Activities/ Achievements / Challenges

The Division has a carder allocation of 10 positions and 8 positions have filled up by the end of year 2012. One staff member continued to be on study leave. Shortage of academic staff was addressed by employing temporary and visiting staff. The academic staff comprised of permanent, temporary and visiting staff as listed under section 3.1 & 3.2.

Academic term of year 2012 had to be extended and also lectures were carried out during weekends in order to cover up missed sections due to the three months Trade Union action carried out by FUTA. Due to the series of interruptions occurred such as student clashes, shortage of resources and delays restricted the academic activities scheduled for the year 2012.

Computer aided English language classes were conducted successfully, as a component of the 1st year English Program. The foundation course in English was not conducted since the new intake is being delayed due to late university admissions in the year 2012.

Allocated visiting lecture payments have been increased substantially and this would attract qualified visiting staff for the foundation course of the new intake in the coming year.

3.1 Academic Staff (Permanent)

Category Name & Qualifications

Senior Lecturer Gr. II	Mrs. PS Yatapana B.Sc. (Sri Jayawardhanapura) PG Dip. (Stat.) (Sri Jayawardhanapura) PG Dip. (Applied Stat.) (Colombo) M.Sc. (Colombo) M. Phil (Colombo)
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Senior Lecturer Gr. II	Mrs. S. Nagodavithana B.A. (Sri Jayawardhanapura) M.A. (Kelaniya), M. Phil. (Kelaniya)
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Lecturer	Mrs. CPN Attygalle B.Sc. (SL), M.Sc. (Colombo)
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Lecturer	Mrs. MV Dasanayaka B. A. (Peradeniya), M.A. (Kelaniya)
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Lecturer (Probationary)	Mrs. SC Matugama B.Sc. (Colombo), M.Sc. (Moratuwa)
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Lecturer (Probationary)	Ms. K Galappaththi B.Sc. (Ruhuna), M.Sc. (Colombo)
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Lecturer (Probationary)	Miss. DDGADS Saparamadu B.Sc. (Sri Jayawardhanapura)
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Lecturer (Probationary)	Ms. TMSS Thennakoon B.A. (Kelaniya), M.A.(Kelaniya) CELTA(Cambridge)
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Lecturer (Probationary)	
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The Division obtained the services of the following staff on a temporary / visiting basis for the year 2012.

Ms. MDS Senavirathne	Temporary Lecturer (Information Technology)
Ms. MDSS Weerasinghe	Temporary Lecturer (English)
Ms. AKDPM Wimalasiri	Temporary Instructor (Information Technology)
Mr. TI Alles	Visiting Instructor (English)
Ms. STMM Jayawardana	Visiting Instructor (English)

In addition the services of 12 visiting instructors have to be obtained to conduct the Foundation course in English when the new intake enrolled.

3.2. Activities of Individual Members of the Division during the year,

Mrs. PS Yatapana

- Duties as Head of the Division
- Coordinated ITUM Activities at the L-Block
- Co-ordinator of NDT First Year Mathematics Course
- Member of Orientation Committee
- External Supervisor of M.Sc. In applied Statistics Project.
- Council member of the institute of applied statistics Associations Sri Lanka.
- Secretary of the Institute of Technology University of Moratuwa Association of Teachers'
- Research Activities

Mrs. S. Nagodavithana

- Co-ordinated the 1st Year English Course
- Co-ordinate the Foundation Course in English
- Developed and coordinated a short course for NDT Nautical students
- Preparation of ELT Materials Research Activities
- Research Activities

Mrs. CPN Attygalle

- Student Counselor, ITUM
- Chairperson, Scholarships ad Awards Committee ITUM
- External Supervisor of M.Sc. In applied Statistics Project
- Research Activities

Mrs. MV Dasanayaka

- Co-ordinate the Intensive English Programme
- Co-ordinate the First Year English assessments Research Activities
- Research Activities

Mrs. SC Matugama

- Member of Time Table Committee
- Member of Orientation Committee
- Member of scholarships and Awards Committee, ITUM.
- Ms. Matugama continued to be on study leave reading for her Ph.D.
- Research Activities

Ms. K Galappaththi

- Designed and developed ITUM web site
- Member of ITUM Hand Book Committee
- Member of a Technical Evaluation Committee
- Examiner of “Promotion to the post of Computer Application assistant Grade II examination”
- Research Activities

Miss. DDGADS Saparamadu

- Student Counselor, ITUM
- Co-ordinate First and second year tutorials/assignments in Mathematics
- Miss. Saparamadu has been registered for an M.Phil and following the course part time.
- Research Activities

Ms. TMSS Thennakoon

- Marking assessments
- Conducting Oral Test
- Research Activities

10.6 Summary Details of Academic Staff

Division	Subject	Medium	Senior Prof.	Prof.	Senior Lecturer	Lecturer	ETA	Instructors
Civil Eng. Tech.	Civil Eng.	English	-	-	04	01	-	03
Mechanical Eng. Tech. & Maritime Studies	Mechanical Eng.	English	-	-	03	03	01	04
Polymer, Textile & Chemical Eng. Tech.	Textile Polymer Chemical	English	-	-	02	01	-	04
			-	-	-	03	-	
			-	-	-	02	01	
Electrical, Electronics & Telecommunication Eng. Tech.	Electrical Electronic	English	-	-	-	05	-	10 12
			-	-	-	04	-	
Interdisciplinary Studies	Maths IT English	English	-	-	01	02	-	02
			-	-	-	01	-	
			-	-	01	01	-	
Total					11	23	02	35

11. Details of Non Academic Staff.

Faculty / Branch	Most Senior	Senior Staff	Junior Staff	Minor Staff
Finance Division	-	01	05	01
Director Office	-	02	05	02
Division of Civil Eng. Tech.	-	-	01	-
Division of Mechanical Eng. Tech.	-	-	01	-
Total	-	03	12	03

12 Learning Resources and Student Support

Learning Infrastructure

- 1 The institution identifies infrastructure availability as a key factor determining its success in achieving the set goals. Being established within the University of Moratuwa under the condition that no space or facilities are provided extra to what was used by the NDT programme before the year 2000, the improvements with regard to physical environment had been minimal during the past 10 years.
- 2 Available infrastructure is shared with the other student groups of the University. ITUM too has made investment to improve some such common facilities.
- 3 The Division of Civil Engineering Technology initiated activities to deliver its programme on-line, under the assistance of Distance Education Modernization program.

Library Services

The student of the ITUM use the library of the main university and share its facilities with the other students of the university. The ITUM funds were utilized to enhance the available resources. The facilities available at the University library are sufficient to meet the students present learning requirements.

Information Technology

- 1 Since year 2004 a new subject was introduced to the first year curriculum as 'Introduction to Information Technology' which is compulsory for all students.
- 2 Investments were made on computer software and hardware necessary for all programs. Eventhough, the basic essential requirements of the academic programmes are met, more infrastructure in IT is needed for meeting the requirements of effective teaching methods and students learning requirements.

Student feedback on learning resources

- 1 Two main methods are used to obtain students feedback: a) Lecture evaluation forms used by some staff members. b) Informal discussion with students.
- 2 The feedback from students are used for emphasizing the required changes in teaching methods, techniques and practicals etc. The decision making for resource allocation is also partly based on this feedback.

New programmes / Subjects and Resources

- 1 The introduction of new subject or improvement of existing subjects is the responsibility of the individual divisions and such changes are done at intervals in the form of curriculum revision. The syllabus changes are recommended by the Board of Studies for its implementation. The resources needed for such new programmes / subjects are provided by the ITUM either through existing resource sharing agreement with the university or directly by purchasing the requirements. Any other essential technological information arising in between curriculum changes are imparted to the students through supplementary, like guest lectures.
- 2 Most of the learning resources such as the access to internet, computer software are available centrally to all students. Some resources required by the specialized fields are available at the corresponding departments of the main university and the students use these facilities.

Career Development

- 1 The NDT programme has its final (3rd) year dedicated for industrial training. Engaging in this one year period in the industry make the students readily employable after completing their study programmes. A lecturer in industrial training is available for the effective management of industrial training.
- 2 The students are presented with at least two presentations/ seminars on professional and academic development opportunities available. The resource persons for these seminars are usually from the industry.
- 3 ITUM maintains relationship with the Institution of Incorporated Engineers, Sri Lanka (IIESL), which is the direct professional body for NDT diplomates. Annual industry exhibition conducted by the IIESL also provides an opportunity for students' career development through participation.

Communication with employers

The ITUM has limited forums for direct communication with the employers of its students. However, the representatives of prospective employers attend the assessment panels of industrial training assessments. This occasion provides an opportunity for the academic staff and the Heads of Divisions to meet and discuss their views and expectation with regard to the diplomats produced by the ITUM.

13. Link with the Industry

13.1 Industrial Training

Introduction

The bridge between academic studies at the University and professional competence as a Diplomate is the period of Industrial Training.

Objective

Industrial Training is to provide practical experience to enhance the understanding of the theoretical principles learnt and to acquire skills and competence in the relevant field with right work attitude in order to effectively contribute to Engineering Technology as a Diplomate.

Duration

Training was provided in two organizations during the period of twelve months from 21.02.2012 to 21.02.2013. No trainee was permitted to have training in one organization for more than six months.

Staff in charge of Training

Eng. T. R. D. Perera

C. Eng, M.I.E.[SL], M.I.T.D.[U.K.], M.I.Mgt[U.K.], M.I.I.E.[SL]

Student break-down by Field

Chemical	24
Civil	84
Electrical	38
Electronics and Telecommunication	40
Marine	19
Mechanical	40
Polymer	22
Textile & Clothing	48
Total that underwent Training	315

Competence and Commitment

The Roles and Responsibilities during Industrial Training:-

1. Maintain a sound theoretical approach to the application of technology in engineering practice.
2. Use appropriate scientific and engineering principles.
3. Use a sound evidence-based approach to problem-solving and quality enhancement.
4. Develop, review and select techniques, procedures and methods to undertake engineering tasks.
5. Contribute to design and development.
6. Identify problems, evaluate options and formulate solutions taking cost, benefits safety quality, reliability, appearance and environmental impact onto account.
7. Determine evaluation criteria and monitor and assess operations against the criteria.
8. Plan, implement and co-ordinate activities against objectives.
9. Assist in the preparation and control of budgets and operate within the financial and commercial constraints of an organization and the overall statutory framework.
10. Use people management skill and provide leadership in the working environment, supporting and developing team members and managing groups and projects.
11. Manage continuous improvement processes.
12. Work and communicate with others at all levels.
13. Effectively present and discuss ideas and plans.
14. Build teams and negotiate.
15. Comply with the codes and rules of conduct.
16. Manage and apply safe systems of work.
17. Undertake engineering work in compliance with the codes of practice on risk and the environment.
18. Carry out continuing professional development necessary to ensure competence in areas and at the level of future intended practice.

Areas of Training

Training Guides were provided at the commencement of training so that the trainee could make every effort to cover the areas as much as possible in order to obtain an overall knowledge in the respective field.

Placement

The order of preference of the organizations the trainee wished to undergo training was selected, by the trainee prior to commencement of training, from the list of organizations forward by the National Apprenticeship & Industrial Training Authority (NAITA). Every possible effort was made to satisfy the choice of the organizations the trainee requested.

Assessment

At the end of each six months of training an oral assessment was held. The location, date and time was informed in advance by NAITA to the trainees. The assessment panel consisted of academic staff from ITUM, officers from NAITA and officers from the training organizations. The purpose of the assessment was to determine whether the trainee had acquired the expected skills and knowledge.

Seminar on Industrial Training

The above seminar was held of 5th February 2008 for all the 3rd year students. Speakers from the industry were invited to give presentations. The Institute issued a booklet on “General Guidelines on Training” and officials from NAITA issued the placement letters and other documents to the trainees.

13.2 Employment

The ITUM faces the difficulty in setting up of a carrier guidance unit of its own due to the prevailing limitation in space allocations. Nevertheless, the lecturer in charge of Industrial Training is the link for employment at the ITUM. Inquiries for newly passed out Diplomates are sent to prospective employers at their request. A data base is not maintained with regard to previously passed out Diplomates. Hence if such inquiries are received the contact details of these Diplomate are forwarded to prospective employers so that they directly make contacts and find suitable candidates.

13.3 Guest Lectures

During the first two years students are given an opportunity to participate in guest lectures which are held at the institute premises. These lectures are on technical and non-technical areas of common interest and are conducted by competent personnel from the industry. The practice of guest lectures is gainfully utilized to educate students on the new areas of studies not specified in the existing curriculum.

13.4 Industrial Visits

Large number of industrial visits are organized by the respective departments for students during their first two years at the institute with the intension of exposing them to the practical aspects of the theory taught in the classroom.

13.5 Link with the Academic and Professional Institutions

Several overseas Universities continue to engage in discussions and make presentations with regard to opportunities for NDT students persuading accredited degree programmes after completion of the course of study. The Institute also maintains liaison with the local branch of the City and Guilds of London Institute which conducts examinations on behalf of the Engineering Council (UK). The

Engineering Council (UK) examinations facilitate NDT students to obtain academic standard requirements for Chartered Engineer qualifications.

A strong relationship is also maintained with the Institute of Incorporated Engineers Sri Lanka which is the sole professional body representing Engineering Diplomates and Incorporated Engineers in Sri Lanka. After the completion of the NDT programme Diplomates are eligible to apply for membership of this Institution and obtain Incorporated Engineer status after completion of necessary requirements.

14. Details of Recurrent Expenditure:

Subject	2011 Rs.	2012 Rs.
a. Personal emoluments	60,153,580	62,767,021
b. Travelling	42,250	75,501
c. Supplies	2,602,868	2,761,555
d. Maintenance	401,086	1,187,736
e. Contractual Service	4,305,925	4,212,321
f. Other	4,407,148	7,730,242
Total	71,912,875	78,734,376

15. Details of Capital Expenditure:

Subject	2011 Rs	2012 Rs
a. Acquisition of furniture & Office Equipments	3,463,720	684,805
b. Acquisition of Machineries	0	0
c. Acquisition of Building & Structures	120,098	251,874
d. Other (Books & Perio)	82,250	435,241
Total	3,666,068	1,371,920

16. Details of Projects (Local/ Foreign Funded):

Name & Detail	Loan/Grant	Funding Agency	TCE Rs.	RFA Rs.	DF Rs.
Total					

#{GOSL/ADB/IDA/WB/.....}

17. Details of Project Expenditure (Local/Foreign Funded)

Name	TCE Rs.	Exp in 2011 Rs	Exp in 2012 Rs.	Cumulative Exp as at 31.12.2012	% of Physical Progress
Relocation of ITUM at Diyagama		7,666,735	179,540	51,211,018	
Total					

18. Details of Financial Progress (Expenditure):

Subject	Provision in 2012 Rs	Exp in 2012 Rs	Savings/Excess Rs
a. Recurrent except Project			
b. Capital except Project			
c. Project - Local Fund			
d. Project - Foreign Funded			
Total			

19. Details of Financial Progress (Generated Income):

Source of Revenue	Provision in 2012 Rs	Collection in 2012 Rs	Deficit/ Surplus Rs
a. Undergraduate Studies			
b. Postgraduate Studies			
c. Consultancies			
d. Other			
Total			

20. Financial Performance Analysis - 2012:

Subject	Formula	Exp. Per Student Rs.
a. Recurrent Expenditure per Student (RE)	RE/No of Student Strength	88,914
b. Capital Expenditure per Student (CE)	CE/No of Student Strength	1,487
Total		90,401

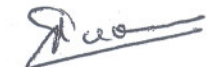
21. Details of Infrastructure Facilities Received in 2012:

Infrastructure Details	Expenditure Rs	Physical Progress

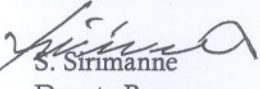
INSTITUTE OF TECHNOLOGY-UNIVERSITY OF MORATUWA
STATEMENT OF FINANCIAL POSITION
AS AT 31st DECEMBER 2012

	Notes	2012 Rs.	2012 Rs.	2011 Rs.	2011 Rs.
<u>ASSETS</u>					
Non -Current Assets					
Property, Plant and Equipment	1	63,970,556		58,709,301	
Work in Progress	1a	5,286,444		12,178,640	
Other assets	2	<u>1,193,329</u>		<u>1,475,917</u>	
			70,450,329		72,363,858
Investments (LT & ST)	3		28,909,989		9,224,495
Current Assets					
Stock		938,477		615,230	
Receivables	4	5,730,996		5,071,870	
Cash at Bank	5	<u>11,559,779</u>		<u>30,362,637</u>	
Total Assets			<u>18,229,252</u>		<u>36,049,737</u>
			117,589,570		117,638,090
<u>LIABILITIES</u>					
Current Liabilities					
Payables	6	4,665,588		5,850,260	
Deferred Income	7	2,177,423		1,683,143	
Accrued expenses	8	<u>3,030,231</u>		<u>2,100,869</u>	
			9,873,242		9,634,272
Non -Current Liabilities					
Provision for Gratuity		<u>11,975,017</u>		<u>12,606,970</u>	
			11,975,017		12,606,970
Total Liabilities			<u>21,848,259</u>		<u>22,241,242</u>
Total Net Assets			<u>95,741,311</u>		<u>95,396,848</u>
NET ASSETS / EQUITY					
Capital Grant - Spent	9	30,998,880		34,081,951	
Payment for Land	9(a)	30,286,444		30,106,904	
Capital Grant - Unspent	10	26,675,468		27,076,928	
General Reserve	11	-17,939,735		-15,377,749	
Donations	12	3,975,000		3,975,000	
Non Monetary Government Grant	13	7,250,000		4,200,000	
Accumulated Fund	14	<u>14,495,254</u>		<u>11,333,814</u>	
			95,741,311		95,396,848
Total Net Assets / Equity			<u>95,741,311</u>		<u>95,396,848</u>

Certified & Correct


Dr. T.A.G. Gunasekara
Director

Dr. T.A.G. Gunasekara
Director
Institute of Technology
University of Moratuwa.

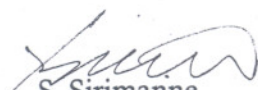
Mr. S. Sirimanne
Deputy Bursar
Institute of Technology
University of Moratuwa

S. Sirimanne
Deputy Bursar


K.C.S. Perera
Deputy Registrar

Mrs. K.C. Sanjeevani Perera
Deputy Registrar
Institute of Technology


**INSTITUTE OF TECHNOLOGY-UNIVERSITY OF MORATUWA
STATEMENT OF FINANCIAL PERFORMANCE FOR THE
YEAR ENDED 31st DECEMBER 2012**

<u>Operating Revenue</u>	Note	2012 Rs.	2011 Rs.
Recurrent Grant		74,700,000	74,732,645
Govt: Grant from UGC			
Govt: Grant - Mahapola		1,847,000	2,937,000
Govt: Grant - Bursary		12,156,150	9,958,050
Other income	15	1,788,690	2,014,628
Amortization		5,249,994	5,654,355
		95,741,834	95,296,678
<u>Operating Expenses</u>			
Personal Emoluments	16	62,767,021	60,153,580
Traveling	17	75,501	42,250
Supplies and consumable used	18	2,761,555	2,602,868
Maintenance	19	1,187,736	401,086
Contractual services	20	4,212,321	4,305,925
Research and Development	21	416,180	279,519
Depreciation and amortizations expenses		6,514,994	5,654,348
Other operating expenses	22	7,314,062	4,127,629
Mahapola		1,847,000	2,937,000
Bursary		12,156,150	9,958,050
Total operating expenses		99,252,520	90,462,255
Surplus / (Deficit) from operating activities		-3,510,686	4,834,423


 S. Sirimanne
 Deputy Bursar


INSTITUTE OF TECHNOLOGY-UNIVERSITY OF MORATUWA
STATEMENT OF CHANGES IN NET ASSETS FOR THE
YEAR ENDED 31st DECEMBER 2012

Notes	9	9a	10	11	12	13	14	
	Capital Grant Spent Rs.	Payment For Land Rs.	Capital Grant Unspent Rs.	General Reserve Rs.	Donations Rs.	Non-Monetary Govt. Grant Rs.	Accumulated Fund Rs.	Total Rs.
Balance at 31st December 2010	15,145,663	30,106,904	33,609,731	-20,367,729	3,975,000	0	10,558,382	73,027,951
Net gains and losses not recognized in the statement of financial performance				155,557				155,557
Transfers/Net Movements	24,590,643		-6,532,803			4,200,000	775,432	23,033,272
Surplus / Deficit for the period				4,834,423				4,834,423
Amortization	-5,654,355							-5,654,355
Balance as at 31st December 2011	34,081,951	30,106,904	27,076,928	-15,377,749	3,975,000	4,200,000	11,333,814	95,396,848
Surplus/Deficit on revaluation of properties								0
Transfers/Net Movements	2,229,508	179,540	-401,460			3,050,000	3,161,440	8,219,028
Net gains and losses not recognized in the (Note 23)								0
statement of financial performance				948,700				948,700
Amortization	-5,312,579							-5,312,579
Surplus / (deficit) for the period				-3,510,686				-3,510,686
Balance at 31st December 2012	30,998,880	30,286,444	26,675,468	-17,939,735	3,975,000	7,250,000	14,495,254	95,741,311


 S. Sirimanne
 Deputy Bursar

INSTITUTE OF TECHNOLOGY-UNIVERSITY OF MORATUWA
CASH FLOW STATEMENT FOR YEAR ENDED
31st DECEMBER 2012

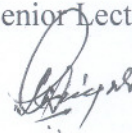
	Notes	2012		2011	
		Rs.	Rs.	Rs.	Rs.
<u>Cash Flow from Operating Activities</u>					
Surplus / (deficit) from ordinary activities		-3,510,686		4,834,423	
<u>Non-cash movements</u>					
Other Adjustments	24	1,743,700		155,557	
Credit Adjustments					
Depreciation		6,514,994		5,654,348	
Amortization		-5,249,994		-5,654,355	
Provision for Gratuity		-631,953		775,347	
<u>Increase/Decrease in Working Capital</u>					
Decrease/Increase in receivables	25	-982,372		974,065	
Increas/Decrease in Deferred Income		494,280		-84,623	
Increas/Decrease in payables	26	-1,184,672		-3,962,389	
Decrease/Increase in Accrued Expences		929,362		1,428,102	
Net cash flow from operating activities			-1,877,341		4,120,475
<u>Cash flow from Investing Activities</u>					
Purchase of plant and equipment (Schedule A & B)		-1,371,923		-3,666,068	
Payment for Land (Capital)		-179,540		-7,666,735	
Net cash flow from investing activities			-1,551,463		-11,332,803
<u>Cash flow from financing activities</u>					
Capital Grant	10	1,150,000		4,800,000	
Decrease in Restricted funds		3,161,440		775,432	
Net cash flows from financing activities			<u>4,311,440</u>		<u>5,575,432</u>
Net increase / (decrease) in cash and cash equivalent			882,636		-1,636,896
Cash and cash equivalent at the beginning of period			39,587,132		41,224,028
Cash and cash equivalent at the end of period	27		<u><u>40,469,768</u></u>		<u><u>39,587,132</u></u>


S. Sirimanne
Deputy Bursar

Internal Audit Division

Following are the duties carried out by the Internal Audit Division of University of Moratuwa during the year 2012 with regard to the activities of the Institute of Technology, University of Moratuwa .

1. Pre auditing of 29 Nos. of Provident Fund Refundings 05 Nos. of Gratuity Payments and 01 No. of Pension Payments.
2. Examined remittance of UPF Contributions to University Grants Commission.
3. Investigation of Procurements.
4. Auditing of calculations on reckoning of Cost of Living allowance from 01.01.2006, for the purpose of Computation of UPF, ETF and payments of Gratuity.
5. Investigation of Violation of Bond of Ms. I.N. Jayathilake - Senior Lecturer.





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கணக்காய்வாளர் துறைமுக அறிபுதி திணைக்களம்
AUDITOR GENERAL'S DEPARTMENT



මගේ අංකය } EC/D/ITUM/FS/2012
 எனது இல }
 My No }

මගේ අංකය }
 உமது இல }
 Your No. }

දිනය } 07 January 2014
 திகதி }
 Date }

Director,
 Institute of Technology,
 University of Moratuwa.

Report of the Auditor General on the Financial Statements of the Institute of Technology of the University of Moratuwa for the year ended 31 December 2012 in terms of Section 20 of the Institute of Technology of the University of Moratuwa Ordinance No.03 of 2000 and Sub-section 108(1) of the Universities Act No.16 of 1978.

The audit of financial statements of the Institute of Technology of the University of Moratuwa for the year ended 31 December 2012 comprising the statement of financial position as at 31 December 2012, statement of changes in net assets and cash flow statement for the year then ended and a summary of significant accounting policies and other explanatory notes was carried out under my direction in pursuance of provisions in Article 154(1) of the Constitution of the Democratic Socialist Republic of Sri Lanka read in conjunction with Section 20 of the Institute of Technology of the Universities of Moratuwa Ordinance No.03 of 2000 imposed in terms of Section 18 of the Universities Act No.16 of 1978. My comments and observations which I consider should be published with the Annual Report of the Institute in terms of Sub-section 108 (1) of the Universities Act appear in this report. A detailed report in terms of Sub-section 108 (2) of the Universities Act was furnished to Director of the Institute on 29 October 2013.

1.2 Management's Responsibility for the Financial Statements

The Management is responsible for the preparation and fair presentation of these financial statements in accordance with Sri Lanka Public Sector Accounting Standards and for such internal control as the management determines is necessary to enable the preparation of financial statements that are free from material misstatements, whether due to fraud or error.

අංක 306/72, පොල්දූව පාර,
 බත්තරමුල්ල, ශ්‍රී ලංකාව

இல. 306/72, பொல்துவ வீதி,
 புத்தரமுல்லை இலங்கை

No.306/72, Polduwa Road,
 Battaramulla, Sri Lanka

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 பக்ஸ் இல } 2887223
 Fax No. }

ඉලෙක්ට්‍රොනික් තැපෑල }
 #- மெயில் } oaggov@slt.net.lk
 E-mail }

1.3 Auditor's Responsibility

My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with Sri Lanka Auditing Standards. Those standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgments, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institute's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of financial statements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified audit opinion.

1.4 Basis for Qualified Opinion

My opinion is qualified based on the matters described in paragraph 2.2 of this report.

2. Financial statements

2.1 Qualified Opinion

In my opinion, except for the effects of the matters described in paragraph 2.2 of this report, the financial statements give a true and fair view of the financial position of the Institute of Technology of the University of Moratuwa as at 31 December 2012 and its financial performance and cash flows for the year then ended in accordance with Sri Lanka Public Sector Accounting Standards.

2.2 Comments on Financial Statements

2.2.1 Accounting Deficiencies

The following observations are made.

- (a) The pre paid motor vehicle insurance fees of Rs.145,544 and the expenditure on machinery services amounting to Rs.31,115 had not been shown as prepaid expenses in the financial position statement.
- (b) The provision for gratuity shown in the financial performance statement had been understated by Rs.1,681,875.
- (c) The net value of used fixed assets costing Rs.32,887,662 was zero as at 31 December 2012. However, these had not been revalued and brought to account.
- (d) Amortization amounting to Rs.1,123,333 for the year under review had not been accounted for, on behalf of motor vehicles costing Rs.7,250,000 received under capital grant.
- (e) A van valued at Rs.4,900,000 had been obtained in April 2012 under the capital grant. This had not been depreciated during the year under review. As a result, the depreciation on motor vehicles had been understated by Rs.653,333 and the provision for depreciation on motor vehicles too had been understated by a similar amount.

2.2.2 Accounts Receivable and Payable

The following observations are made.

(a) Accounts Receivable

- (i) Action had not been taken to recover the employees' loan of Rs.138,040 from 5 officers who had vacated posts. The gratuity due to one of these officers had been released on 26 February 2013. However, action had not been taken to recover the employees' loan of Rs.11,875.

(ii) An Ex-lecturer had neglected to settle the employees' loan of Rs.108,350. But, he had been employed in service on contract basis again. The loan concerned had not been recovered even as at end of the year under review.

(b) Accounts Payable

(i) Action had not been taken to settle the tax of Rs. 57,883 payable to the Department of Inland Revenue from the years 2007 and 2009.

(ii) Action had not been taken to settle the retention money of Rs.141,423 remaining unpaid for 3 years even by end of the year under review.

2.2.3 Lack of Evidence for Audit

The following matters were observed.

(a) The value of laboratory and library deposits shown under the accounts payable for the year under review was Rs.542,650. A detailed schedule to confirm those balances had not been furnished to audit.

(b) According to Section 3.1 of Chapter XX of Establishments Code for the University Grants Commission and Higher Educational Institutions all persons employed in all higher educational institutions should mark their times of arrival and departure in the register of attendance. But, the academic staff had not signed their arrival and departure.

2.2.4 Non-compliance with Laws, Rules, Regulations and Management Decisions

The following matters were observed.

	Reference to Laws, Rules, Regulations etc.,	Non-compliance
(a)	Public Administration Circular No.07/97 dated 03 February 1997 and the University Grants Commission's Circular No.707 dated 01 April 1997.	Payment of holiday pay is limited to one day per month. However, holiday pay amounting to Rs. 77,236 had been paid to 3 officers of the Institute for 1 to 4 days exceeding one day per month.
(b)	Standing Order No.50-2 of the Registrar, University of Moratuwa dated 12 October 2011.	The duty hours of administrative officers, financial officers and officers of allied services is 7 hours and 45 minutes. However, holiday pay amounting to Rs.64,406 had been paid to officers who had performed their duties less than the time specified.
(c)	Circular No.1/2011 of the Secretary to the Ministry of Higher Education dated 20 April 2011.	In order to be eligible to receive the Research Allowance, adequate evidence should be furnished to prove the publishing of research results in an international/ local symposium /conference or technical session and by producing evidence that research activities are being continued actively during the year for which research allowance is claimed . However, 11 lecturers who had furnished research proposals in 2011 had not produced evidence to prove that those researches were being actively continued in 2012. A sum of Rs.897,023 had been paid as research allowances to those lecturers during the year 2012 too.

3. Financial Review

3.1 Financial Results

According to the financial statements presented, the operating activities of the Institute during the year under review had resulted in a deficit of Rs.83,460,680 before taking into consideration the government grant for recurrent expenditure and the amortization as compared with the deficit of Rs. 75,552,577 of the preceding year. The deficit had decreased upto Rs.3,510,686 due to the government grant of Rs. 74,700,000 received for recurrent expenditure of the year under review and the amortization of Rs.5,249,994. The deficit for the preceding year had become a surplus of Rs.4,834,423 due to the government grant of Rs. 74,732,645 received for recurrent expenditure and the amortization of Rs. 5,654,355.

3.2 Analytical Financial Review

3.2.1 Financial Performance Statement

An extract of the financial performance statement of the year under review and the previous year appear below.

<u>Item</u>	<u>2012</u>	<u>2011</u>	<u>Difference</u>	<u>Percentage of Difference</u>
	Rs.	Rs.	Rs.	%
Income	95,741,834	95,296,678	445,156	0.47
Expenditure	99,252,520	90,462,255	8,790,265	9.72
Surplus (Deficit)	(3,510,686)	4,834,423	8,345,109	(172.26)

3.2.2 Financial Position Statement

An extract of the financial position of the year under review and the previous year appear below.

<u>Item</u>	<u>2012</u>	<u>2011</u>	<u>Difference</u>	<u>Percentage of Difference</u>
	Rs.	Rs.	Rs.	%
Non-current Assts	99,360,318	81,588,353	17,771,965	21.78
Current Assets	18,229,252	36,049,737	(17,820,485)	(49.43)
Current Liabilities	9,873,242	9,634,272	238,970	2.48
Non-current Liabilities	11,975,017	12,606,970	631,953	5.01
Net Assets	95,741,311	95,396,848	344,463	0.36

3.2.3 Cash Flow Statement

An extract of the cash flow statement of the year under review and the previous year appear below.

<u>Item</u>	<u>2012</u>	<u>2011</u>	<u>Difference</u>	<u>Percentage of Difference</u>
	Rs.	Rs.	Rs.	%
Net cash flow generated from operating activities	(1,877,341)	4,120,475	(5,997,816)	(146.56)
Net cash flow generated from investing activities	(1,551,463)	(11,332,803)	9,781,340	86.31
Net cash flow generated from financing activities	4,311,440	5,575,432	(1,263,992)	(22.67)
Cash and cash equivalents at the beginning	39,587,132	41,224,028	(1,636,896)	(3.97)
Cash and cash equivalents at the end	40,469,768	39,587,132	882,636	2.23

3.3 Working Capital Management

An average monthly amount of not less than Rs.23,539,484 had been retained in two current accounts of banks during the year 2012. Action had not been taken to invest that money so as to earn an income from interest.

4. Operating Review

4.1 Performance

Details relating to students enrolled during the past 5 years, the numbers of students studied, the number of students left after obtaining diploma and the annual revenue expenditure incurred appear below.

	2008	2009	2010	2011	2012
Total Number of students	974	987	987	1016	1043
Number of students enrolled	369	360	360	358	352
Number of student who undergo training outside the institute in the final year	298	295	310	329	347
Total No. of students studied at the Institute	676	692	677	687	696
Number of Diploma holders	303	336	299	296	289
Annual recurrent expenditure - Rs.	74,310,447	78,644,210	83,482,537	90,462,255	99,252,520
Cost per Student - Rs.	109,927	113,648	123,312	131,677	142,604
Number of students who obtained Mahapola	209	206	204	208	210
Number of student who obtained Bursaries	469	451	494	499	475

The following observations are made

- (a) The Institute conducts 9 diploma courses and 369 students had been enrolled for diploma in 2008. Of them, 289 had succeeded in diploma during 2012. This represents 78 per cent.
- (b) The Number of students enrolled in 2000 at the time of commencement of the Technology Institute was 350 and the number of students enrolled in 2012 was 352. Although 12 years had elapsed since the establishment of the Institute, the improvement in enrolment was only 0.57 per cent.

4.2 Management Inefficiencies

A sum of Rs. 1,618,050 had been obtained in 2009 and 2010 for the Distant Education Modernization Project. This had been shown as deferred income in the financial position statement without being used for the intended purpose.

4.3 Identified Lesses

Surcharge amounting to Rs.15,167 had been paid as a result of not remitting the Employees' Provident Fund and the Employees' Trust Fund contributions on the due dates.

4.4 Staff Administration

The details of academic staff and other staff as at 31 December 2012 are given below.

(a) Academic Staff

	<u>No.of</u> <u>Approved</u> <u>Lecturers</u>	<u>No.of Actual</u> <u>Lecturers</u>	<u>No.of</u> <u>Vacancies</u> <u>for</u> <u>Lecturers</u>
(i) Lecturers	27	19	08
(ii) Probationary Lecturers	17	12	05

(b) Other Staff

	<u>approved</u> <u>Cadre</u>	<u>Actual</u> <u>Cadre</u>	<u>Vacancies</u>
(i) Staff	04	02	02
(ii) Non-Staff	29	14	15

5. Accountability and Good Governance

5.1 Action Plan

The action plan for the year under review had not been prepared in terms of Paragraph 5.1 of the Public Enterprises Circular No.PED/12 dated 02 June 2003.

5.2 Budgetary Control

Variances ranging from 7 to 72 per cent were observed between the estimated expenditure and the actual expenditure of the budget for the year under review. Thus it was observed that the budget had not been utilized as an efficient instrument of management control.

5.3 Tabling of Annual Report

The annual report should be tabled in Parliament in terms of Paragraph 6.5.3 of the Public Enterprises Circular No.PED/12 dated 02 June 2003. However , the annual reports of 2010 and 2011 had been tabled in Parliament as at 19 August 2013.

6. Systems and Controls

Deficiencies in systems and controls observed during the course of audit were brought to the notice of the Director from time to time. Special attention is needed in respect of the following areas of control.

- (a) Accounting
- (b) Subsidiary Registers
- (c) Recovery of Creditors
- (d) Accounts Receivable and Payable
- (e) Cash and Bank Control
- (f) Research Allowance Control
- (g) Internal Audit
- (h) Budgetary Control

H.A.S. Samaraweera
Auditor General.

Audit Opinion

2.2 Comments on Financial Statements

2.2.1 Accounting Deficiencies

The following observations are made.

- (a) The pre paid motor vehicle insurance fees of Rs.145,544 and the expenditure on machinery services amounting to Rs.31,115 had not been shown as prepaid expenses in the financial position statement.
- (b) The provision for gratuity shown in the financial performance statement had been understated by Rs.1,681,875.
- (c) The net value of used fixed assets costing Rs.32,887,662 was zero as at 31 December 2012. However, these had not been revalued and brought to account.
- (d) Amortization amounting to Rs.1,123,333 for the year under review had not been accounted for, on behalf of motor vehicles costing Rs.7,250,000 received under capital grant.
- (e) A van valued at Rs.4,900,000 had been obtained in April 2012 under the capital grant. This had not been depreciated during the year under review. As a result, the depreciation on motor vehicles had been understated by Rs.653,333 and the provision for depreciation on motor vehicles too had been understated by a similar amount.

Description / Action taken

2.2. Comments on financial Statements.

2.2.1 Accounting Deficiencies

Replies to the audit queries are given below

- (a) Action will be taken to correctly account for the pre payments relevant to the expenditure committed for vehicle insurance fees and expenditure for machinery services.
- (b) In making provision for the gratuity payments for the staff of the Institute of Technology for the year 2012, Rs. 1,681,875.00 has been shown less in the accounts, as the cost of living allowance had not been computed and taken into consideration. However, action will be taken in 2013, to make provision for gratuity payments taking into consideration the cost of living allowance.
- (c) It is agreed that Rs. 32,887.00 worth fixed assets should be re-valued and taken into accounts and it is informed that such action is being taken now.
- (d) Adjustments had not been made in 2012, for the depreciation of Rs. 1,123,330.00 with regard to the motor vehicle costing Rs. 7,250,000.00. Appropriate adjustments will be made in financial statements of 2013.
- (e) The depreciation cost of Rs. 653,333.00 relevant to the year 2012, on van no WP-NA 3020 costing Rs. 4,900,000.00 has since been corrected.

Audit Opinion

2.2.2 Accounts Receivable and Payable

The following observations are made.

(a) Accounts Receivable

- (i) Action had not been taken to recover the employees' loan of Rs.138,040 from 5 officers who had vacated posts. The gratuity due to one of these officers had been released on 26 February 2013. However, action had not been taken to recover the employees' loan of Rs.11,875

- (ii) An Ex-lecturer had neglected to settle the employees' loan of Rs.108,350. But, he had been employed in service on contract basis again. The loan concerned had not been recovered even as at end of the year under review.

Description / Action taken

2.2.2 Accounts Receivable and Payable

(a) Accounts Receivable

- (i) Although the staff loans recoverable from 5 staff members were noted as Rs. 138,040.00 the correct amount of staff loans recoverable is Rs. 234,515.00. The details of which are shown below. The loan balance of Rs. 11,875.00 from Mrs. I.N Jayathilaka had been recovered by the Institute on 30 September 2013.

Name of the Employee	Loan category	Balance (Rs.)
MDCSK Ambepitiya	Distress Loan	56780.00
	Staff Loan	4080.00
K Gamage	Distress Loan	15225.00
B Balasubramaniam	Distress Loan	12000.00
WA Indira	Distress Loan	38080.00

When above mentioned loan balances will be recovered when releasing their provident fund balances.

SC Mathugama Distress Loan Rs. 4350.00
Distress Loan Rs. 102000.00
Distress Loan Rs. 2000.00

Since SC Mathugama had been appointed to the post of Lecturer on contract basis the loans recoverable had been recovered on a monthly basis.

- (ii) The issue of the recovery of loan balances amounting to Rs. 108,350.00 from SC Mathugama appointed as a Lecturer on contract basis was considered at the 22nd meeting of the audit committee and the committee recommended to recover this amount in full, when releasing the provident fund.

Audit Opinion

(b) Accounts Payable

- (i) Action had not been taken to settle the tax of Rs. 57,883 payable to the Department of Inland Revenue from the years 2007 and 2009.
- (ii) Action had not been taken to settle the retention money of Rs.141,423 remaining unpaid for 3 years even by end of the year under review.

2.2.3 Lack of Evidence for Audit

The following matters were observed.

- (a) The value of laboratory and library deposits shown under the accounts payable for the year under review was Rs.542,650. A detailed schedule to confirm those balances had not been furnished to audit.
- (b) According to Section 3.1 of Chapter XX of Establishments Code for the University Grants Commission and Higher Educational Institutions all persons employed in all higher educational institutions should mark their times of arrival and departure in the register of attendance. But, the academic staff had not signed their arrival and departure.

2.2.4 Non-compliance with Laws, Rules, Regulations and Management Decisions

The following matters were observed.

Description / Action taken

- (i) The sum of Rs.57883.00 tax paid to the Department of commissioner general of inland revenue which is carried forward for the year 2007 and 2009 has since been settled.
- (ii) Retention amounts at the end of the year under review amounting to Rs. 141423.00 has since been settled.

2.2.3 Evidence not furnished in Audit

- (a) The details of laboratory and library deposits amounting to Rs. 542,650.00 have been entered in the registers relevant to each year. The deposits for the year 2011 and 2012 to be credited to revenue and the details of deposits relating to the year 2013 will be submitted along with the financial statements for the year 2013.
- (b) It is noted to take action in accordance with the advice of the University Grants Commission with regard to the course of action regarding the signing of attendance and departure of the academic staff members.

2.2.4 Non - Compliance with laws, rules, regulations and management decisions.

Audit Opinion

- Reference to Laws, Rules, Regulations etc.,
- (a) Public Administration Circular No.07/97 dated 03 February 1997 and the University Grants Commission's Circular No.707 dated 01 April 1997
- (b) Standing Order No.50-2 of the Registrar, University of Moratuwa dated 12 October 2011
- Non-compliance
- Payment of holiday pay is limited to one day per month. However, holiday pay amounting to Rs. 77,236 had been paid to 3 officers of the Institute for 1 to 4 days exceeding one day per month.
- The duty hours of administrative officers, financial officers and officers of allied services is 7 hours and 45 minutes. However, holiday pay amounting to Rs.64,406 had been paid to officers who had performed their duties less than the time specified.

Description / Action taken

- (a) The Board of Management of the institute, in accordance with the decision of the COPE, has permitted the officials of the institute to work more than a day during weekends.
- (b) The previous Director had mentioned that the administrative officers of the institute had reported for duty during the relevant days of the relevant years, at his request. The previous Director had also mentioned that these officers had to attend to certain official work beyond the office time and away from the official premises under the understanding and the supervision of him.
- Under the above circumstances, the officers of the Institute of Technology had drawn the holiday allowance for the days indicated, with the personal supervision of the former Director. If the time of the arrival and departure had been marked, such action had been taken to prove the period of stay at the Katubedda University premises.

Audit Opinion

(c) Circular No.1/2011 of the Secretary to the Ministry of Higher Education dated 20 April 2011.

In order to be eligible to receive the Research Allowance, adequate evidence should be furnished to prove the publishing of research results in an international/ local symposium /conference or technical session and by producing evidence that research activities are being continued actively during the year for which research allowance is claimed . However, 11 lecturers who had furnished research proposals in 2011 had not produced evidence to prove that those researches were being actively continued in 2012. A sum of Rs.897,023 had been paid as research allowances to those lecturers during the year 2012 too.

Description / Action taken

(c) Research Allowances

The Academic staff members of the Institute of Technology who submitted their research proposals at the beginning of the year 2011, had effectively conducted their research work in 2011 and the results of such research work was published at the first annual research symposium of the Institute of Technology, University of Moratuwa held on 19 May 2013.

01. Mrs. DYT Bambarawanage
02. Mr. GG Jayarathna
03. Mrs. SM Kannangara
04. Mr. GD Nanayakkara
05. Mr. GAMD Wickramathilaka
06. Mr. P.D Kumara
07. Mrs. BAS Priyanka

The above named Lecturers have also presented the scientific results of their research work done in the years 2011 & 2012 at the above research Symposium of the Institute of Technology held at the "L" Block on 13.05.2013.

Although Mrs. B.A.S Priyanka was not present at the Symposium, output of her research was published at the said Symposium.

Mr. MDSA Amarasiri is a student studying for his MPhil degree. National Science Foundation has agreed to issue the patent license for his research work done in 2012. This is being done through a research grant obtained from the University Senate Research Grant.

Lecturer Ms. K Gamage, Mrs. MA Bibile and Mr. DGU Solangaarachchi have retired from the service of this Institute. Although the Lecturers Mr. Amarasiri, Mr. Jayarathna, Mrs. Jayarathna, Mrs. Priyanka and Mrs. Bambarawanage had not submitted letters requesting extension of time of their research work, they have continued their work in 2012 and published in 2013. However, instructions have been issued, that in future letters seeking extensions of time should be submitted to the research committee well in advance.

Audit Opinion

3. Financial Review

3.1 Financial Results

According to the financial statements presented, the operating activities of the Institute during the year under review had resulted in a deficit of Rs.83,460,680 before taking into consideration the government grant for recurrent expenditure and the amortization as compared with the deficit of Rs. 75,552,577 of the preceding year. The deficit had decreased upto Rs.3,510,686 due to the government grant of Rs. 74,700,000 received for recurrent expenditure of the year under review and the amortization of Rs.5,249,994. The deficit for the preceding year had become a surplus of Rs.4,834,423 due to the government grant of Rs. 74,732,645 received for recurrent expenditure and the amortization of Rs. 5,654,355.

3.2 Analytical Financial Review

3.2.1 Financial Performance Statement

An extract of the financial performance statement of the year under review and the previous year appear below.

Item	2012 Rs.	2011 Rs.	Difference Rs.	Percentage of Difference %
Income	95741834	95296678	445156	0.47
Expenditure	99252520	90462255	8790265	9.72
Surplus (Deficit)	(3510686)	4834423	8345109	(172.26)

Description / Action taken

3. Financial Review

3.1 Financial Results

Agreed

3.2 Analytical Financial Review

Agreed

Audit Opinion

3.2.2 Financial Position Statement

An extract of the financial position of the year under review and the previous year appear below.

Item	2012 Rs.	2011 Rs.	Difference Rs.	Percentage of Difference %
Non-current Assts	99,360,318	81,588,353	17,771,965	21.78
Current Assets	18,229,252	36,049,737	(17,820,485)	(49.43)
Current Liabilities	9,873,242	9,634,272	238,970	2.48
Non-current Liabilities	11,975,017	12,606,970	631,953	5.01
Net Assets	95,741,311	95,396,848	344,463	0.36

3.2.3 Cash Flow Statement

An extract of the cash flow statement of the year under review and the previous year appear below.

Item	2012 Rs.	2011 Rs.	Difference Rs.	Percentage of Difference %
Net cash flow generated from operating activities	(1,877,341)	4,120,475	(5,997,816)	(146.56)
Net cash flow generated from investing activities	(1,551,463)	(11,332,803)	9,781,340	86.31
Net cash flow generated from financing activities	4,311,440	5,575,432	(1,263,992)	(22.67)
Cash and cash equivalents at the beginning	39,587,132	41,224,028	(1,636,896)	(3.97)
Cash and cash equivalents at the end	40,469,768	39,587,132	882,636	2.23

Description / Action taken

3.2.2 Statement of Financial position

Agreed

3.2.3 Cash forecast statement

Agreed

Audit Opinion

3.3 Working Capital Management

An average monthly amount of not less than Rs.23,539,484 had been retained in two current accounts of banks during the year 2012. Action had not been taken to invest that money so as to earn an income from interest.

4. Operational Review

4.1 Performance

	2008	2009	2010	2011	2012
Total Number of students	974	987	987	1016	1043
Number of students enrolled	369	360	360	358	352
Number of student who undergo training outside the institute in the final year	298	295	310	329	347
Total No. of students studied at the Institute	676	692	677	687	696
Number of Diploma holders	303	336	299	296	289
Annual recurrent expenditure - Rs.	74,310,447	78,644,210	83,482,537	90,462,255	99,252,520
Cost per Student - Rs.	109,927	113,648	123,312	131,677	142,604
Number of students who obtained Mahapola	209	206	204	208	210
Number of student who obtained Bursaries	469	451	494	499	475

Description / Action taken

3.3 Working Capital Management

On a special decision made by the public accounts committee of parliament in the year 2012, considering the special nature of the Diyagama project, Institute was advised to deposit capital grants of Rs. 17.5 million in seven days call deposits in Bank of Ceylon. It was also advised to utilize such funds for the very urgent construction works and to provide very essential infrastructure facilities of the Diyagama project. Accordingly, funds were deposited in seven days call deposits and the bank has agreed to give 7.5 investment interest.

4. Operational Review

Audit Opinion

The following observations are made

(a) The Institute conducts 9 diploma courses and 369 students had been enrolled for diploma in 2008. Of them, 289 had succeeded in diploma during 2012. This represents 78 per cent.

(b) The Number of students enrolled in 2000 at the time of commencement of the Technology Institute was 350 and the number of students enrolled in 2012 was 352. Although 12 years had elapsed since the establishment of the Institute, the improvement in enrolment was only 0.57 per cent.

Description / Action taken

(a) A few students leave the course on personal reasons. Students of the Marine course get their training and employment in overseas and therefore may have a few years difference for the participation of Diploma Awards Ceremony.

Students if they fail in certain subjects in examinations conducted at the end of the first year and the second year, they are considered as failures of such examinations. Certain students fail the examinations conducted at the end of the external training. Only those students who complete the first year and second year examination and successfully complete the external training are eligible to receive the diploma.

(b) At the time of establishing the Institute of Technology and with the understanding of the Moratuwa university it was agreed to audit 350 students and the institute had to continue with the same number of students. However after establishing the institute at Diyagama premises, it is expected to increase the number of students enrolled up to 1000 students.

Audit Opinion4.2 Management Inefficiencies

A sum of Rs. 1,618,050 had been obtained in 2009 and 2010 for the Distant Education Modernization Project. This had been shown as deferred income in the financial position statement without being used for the intended purpose.

4.3 Identified Losses

Surcharge amounting to Rs.15,167 had been paid as a result of not remitting the Employees' Provident Fund and the Employees' Trust Fund contributions on the due dates.

4.4 Staff Administration

The details of academic staff and other staff as at 31 December 2012 are given below.

Description / Action taken4.2 Management Inefficiencies

(a) Under the Distance Education Modernization Programme (DEMP) most subjects of the first year National Diploma in Technology course were entered into the NODES network. However almost at the same time DEMP was closed down and a problem arose regarding collecting data for the relevant computations. However, as the office of the DEMP was re-opened recently, collecting the relevant data has commenced. Once the computations are done in relation to the data collected, action will be taken to make the payments from funds received under the project.

4.3 Losses Identified

In order to remit monies to the Employees Trust Fund from the institute established on 01.08.2000, a request was made by a letter addressed to the Deputy General Manager (Legal and Advices) on 02 January 2001 to get a number to send contributions. As a result of making inquiries from the ETF board the board financial manager (income) had given the number PF 2073 for the Institute of Technology. Payments to the employees' Trust Fund From the year 2000 upto 30.07.2004 was made to No. 10850 allocated to the Moratuwa university and employees trust funds could not be remitted in time because of certain difficulties emerged. Surcharge had been made to this institute, but I believe that the responsibility should not be borne by this institute only. However, this surcharge had been settled by paying Rs. 15167.52 from the Directors Fund of the institute.

4.4 Staff Administration

Audit Opinion

(a) Academic Staff

	No. of Approved Lecturers	No. of Actual Lecturers	No. of vacancies for lecturers
(i) Lecturers	27	19	08
(ii) Probationary Lecturers	17	12	05

(b) Other Staff

	Approved cadre	Actual Cadre	Vacancies
(i) Staff	04	02	02
(ii) Non-Staff	29	14	15

5. Accountability and good governance

5.1 Activity Plan

The action plan for the year under review had not been prepared in terms of Paragraph 5.1 of the Public Enterprises Circular No.PED/12 dated 02 June 2003.

5.2 Budgetary Control

Variances ranging from 7 to 72 per cent were observed between the estimated expenditure and the actual expenditure of the budget for the year under review. Thus it was observed that the budget had not been utilized as an efficient instrument of management control.

5.3 Tabling of Annual Report

The annual report should be tabled in Parliament in terms of Paragraph 6.5.3 of the Public Enterprises Circular No.PED/12 dated 02 June 2003. However, the annual reports of 2010 and 2011 had been tabled in Parliament as at 19 August 2013.

Description / Action taken

(a) & (b) Academic Staff

From the year 2000 the institute had been sharing resources with the Moratuwa university and conduct the administrative work of about 1050 students. Because of the increased intake of student by the Moratuwa university from the last few years the space allocated to the Institute of Technology is gradually decreasing and under such circumstances those recruited to the academic or other staff face the problem of space and other facilities that could be provided filling of vacancies had become a continuous problem to the institute.

5. Accountability and good governance

5.1 Activity Plan

Institute had prepared a corporate plan for the period 2011 to 2015

5.2 Budgetary Control

(a)& (b) After examining the operations of the institute budgeted estimated for the year 2012 was amended in September 2012 and it was observed that there is no increase in the actual expenditure over and above the estimated amount of such expenditure.

5.3 Tabling of Annual Report

The annual reports for the years 2010 and 2011 have already been tabled in parliament. The audit opinion in respect of the audit report for 2012 was received on January 2014 and action will be taken the annual reports for 2012 as early as possible.

Audit Opinion6. Systems and controls

Deficiencies in systems and controls observed during the course of audit were brought to the notice of the Director from time to time. Special attention is needed in respect of the following areas of control.

- (a) Accounting
- (b) Subsidiary Registers
- (c) Recovery of Creditors
- (d) Accounts Receivable and Payable
- (e) Cash and Bank Control
- (f) Research Allowance Control
- (g) Internal Audit
- (h) Budgetary Control

Description / Action taken6. Systems and controls

Special attention is being given to the deficiencies in the systems and controls and consideration is also given to seek a methodology to use management tools more effectively, as far as possible.

Sgd/ Mrs. MMPD Samarasekara
Director
Institute of Technology/ University of Moratuwa.