

PROSPECTUS 2020

INSTITUTE OF SURVEYING & MAPPING, DIYATALAWA



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Institute of Surveying and Mapping Diyatalawa Sri Lanka

MESSAGE FROM THE DIRECTOR - INSTITUTE OF SURVEYING AND MAPPING



As the Director/ Senior Deputy Surveyor General (Training) of the Institute of Surveying & Mapping, Diyatalawa (ISMD), I am privileged to introduce the Institute of Surveying and Mapping as the backbone of the Survey Department of Sri Lanka in producing qualified and professional surveyors to the country.

Institute of Surveying and Mapping is dedicated to have its services to the nation since its inception. The initiating idea of formal training for Surveyors was in the mind of Mr. G.Snider (1811-1833) when he was a Principal Surveyor in charge of Colombo district. He personally taught mathematics and astronomy for Apprentice Surveyors. The first formal training was started by Mr. W.C.S. Ingles on 19th October 1896. Those who successfully completed the training were offered the opportunity to either join Survey Department, as Apprentice Surveyors or to pass the Surveyor General's licensing exam and practice as Licensed Surveyors.

With the introduction of first tertiary education establishment in the country, the Maradana technical college, training of Surveyors was handed on to Maradana technical college in 1908. Surveyors trained at Maradana Technical College were provided a practical training at the Survey Department and recruited as Trainee Surveyors. However, this training process was found not up to standards and Surveyor General decided to have a Training School run by the Survey Department. As a result the Surveyor General's Training School was established 1n 1910 at uplands, Modara. As the building used as training school at Modara was in dilapidated condition, a new location had to be found out.

Finally, an ideal location was found for the training school, which was the deserted Boer war prisoner's camp located in Diyatalawa. Accordingly, the Surveyor General Mr. A.J. Wickwar ordered to start the Surveyor General's Training School in Diyatalawa on 1st March 1924. Over time, It was necessary to introduce new technologies such as Photogrammetry, Electromagnetic Distance Measurements, etc to improve survey standards. As a result, the Surveyor General's Training School was upgraded as Institute of Surveying and Mapping on 21st of February 1967 with the assistance of the United Nations Development Programme. Later Institute of Surveying and Mapping was incorporated under Parliamentary Act no. 21 of1969.

With the rapid development of the Land Surveying, Geo Informatics, Satellite Positioning, Remote Sensing, Soft Photogrammetry and Geographic Information Systems. Commencement of a Bachelor Degree Course in Surveying was very much in demand. The Institute of Surveying & Mapping commenced the first Bachelor Degree Course in Surveying in the country empowered by the Gazette no. 620/4 issued by the Higher Education Ministry on 24th July 1990.

Institute of Surveying & Mapping has been serving to the nation as pioneering education in Geo-Informatics and Land Management. Our focal point is to be the best educational institute in Land Management and Geo-Informatics in the Asian region.

N.J.Wijenayake, Director/ Senior Deputy Surveyor General (Training), Institute of Surveying and Mapping, Diyatalawa.

Preface

Prospectus 2020 being the fifth version of Prospectus of ISMD, has been arranged in five chapters so that one can walk through to find required information easily. This booklet is prepared with the aim of providing all the information related to the institute physically and academically. Information those were available at the preparation been included in this prospectus.

The first chapter provides general information of the institute such as history, function of the institute, etc. and second chapter describes location information, while the third chapter brings you out the information pertaining to the study programs and courses conducted by our institute. Information in regard to the managerial sector, staff detail included in chapter four and in the last chapter available infrastructure facilities are described.

Your comments, suggestions or corrections are most welcome by the editor for further improvements of the next version of the prospectus.

I would like to express my gratitude and sincere thanks to Mr. N.J.Wijenayake, the Director (ISMD) and Mr. K.T.C.Grero, D.S.G. (Academic) for providing necessary information, proof reading and proper guidance in completion of this prospectus successfully. Also my thanks are due to Mrs. S.M.R.A.Pathirathne, Asst. Lecturer, Mrs. G.P.A.R. Ganehiarachchi, Asst. Lecturer and Mr. R.P. Galappathi, Mapping Technical Officer to help me to produce this booklet in a good manner.

M.T.M.Rafeek,

Senior Lecturer/Senior Superintendent of Surveys,

Editor

OUR VISION

"....To be the focal point in Geo informatics
Education, Training and Research in the
South Asian Region aiming to produce
Professional Expertise in 2025...."

OUR MISSION

"...Planning and conducting training courses relating to Geo-informatics, Updating Educational curriculums, Guidance in developing professional Capacity building and Providing Technical Expertise and consultancy services..."

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1. INTRODUCTION

1.1. HISTORY

Institute of Surveying and Mapping, Diyatalawa (ISMD) was established in 1967 with the aim of training surveyors. It was originally stated in Colombo in the year of 1912 by the name of survey training school and then moved to Diyatalawa in 1924. The school was turned, upgraded and named as Institute of Surveying and Mapping, Diyatalawa. The institute function under the Sri Lanka survey department (SLSD), which was established by a proclamation of the governor dated 2nd August 1800, two hundred and twenty years ago and is, therefore, one of the oldest civil state service in Sri Lanka. It functions under purview of the ministry of land and mainly engaged in surveying and mapping activities at national level in the country.

The commencement of training of surveyors was in the year 1896 that was more than one hundred years ago. Until then, the surveyors were trained in the field by being attached to experienced senior surveyors from whom they gained their knowledge by practical experience. The first training class for surveyors was conducted under the supervision of Mr. W.C.S. Ingles on 19th October 1896 in the Government training college in Colombo and proved to be a distinct success.

In 1908, it was decided to take advantage of the course offered at the newly formed Ceylon training college in Colombo following by a short practical training departmentally but did not proved to be satisfactory. Consequently, training of surveyors was entirely taken over by the survey department in 1912 by opening training school at "Uplands" Matuwal and practical training at Padukka. As the building at Uplands were declared unsafe by the public work

department (PWD), It was transferred to new quarters at Colombo Observatory and then, to the more congenial surrounding at Diyatalawa Survey Camp, which became the Institute of surveying and Mapping.

By then and by when technology advanced and sophisticated in methodology, and instrumentation came, it was considered necessary to introduce new techniques at training school, Diyatalawa. As a result, the school was upgraded in 1967 with the assistance of the United Nationals Development project (ISMD). The Institute was incorporated by the government by an Act of Parliament in 1969, which is cited as the institute of surveying and Mapping ACT, No 21 of 1969.

1.2. THE MAIN FUNCTIONS OF ISMD

Prior to 1967, the training activities were purely confined to the training of surveyors for the survey department. Afterwards, the institute, being the largest and leading institute that provides training in surveying has gradually taken over almost all the basic training needs of the survey Department and some other organizations on request.

With the repaid and continuous development in the profession of surveying and Mapping, ISMD is appropriately changing its functions so as to fulfill the current needs.

The main functions Of ISMD at present can be categorically shown as

- To promote the sound application of surveying and Mapping Technology through programs of education, research and advisory services.
- To hold examinations for the purpose of ascertaining the persons who have acquired proficiency in surveying, leveling and mapping.
- To grant a diploma to persons who have pursued courses of

- study in the institute and who have examinations of the institute.
- To grant the degree in surveying sciences who have pursed the course and been successful at the examinations.
- To update the knowledge and skills of relevant, organize regular refresher course.

1.3 RECOGNITION OF ISMD AS A DEGREE-AWARDING INSTITUTE

During the recent past, the fact that the advanced training facilities in land surveying and related field to award degree and diplomas, for instance, postgraduate diploma, were lacking in the country was severely considered. As Sri Lankans, we were thoroughly depending on institute abroad for such professional Level and land survey related need. Only a few officers in the survey department would secure such opportunities by way of foreign grants and scholarships. Hence, it was essential to upgrade the institute of Surveying Mapping to award the degree in Surveying Sciences.

In 1990, the Ministry of Higher education by an extraordinary gazette notification No 620/4 dated 1990.07.24 upgraded the institute of surveying and Mapping as a recognized degree awarding institute under the section 25 A of the universities Act No,16 of 1978. Once again UNDP played a prominent role in this connection by making necessary funds. The ISMD was physically strengthened and brought to academically sound institute though a Five-year project commenced in 1990. Under this project, many lecturers were trained overseas and infrastructure facilities of ISMD were upgraded. In addition to the diploma course, the ISMD started to conduct a four-year degree course in Surveying Sciences.

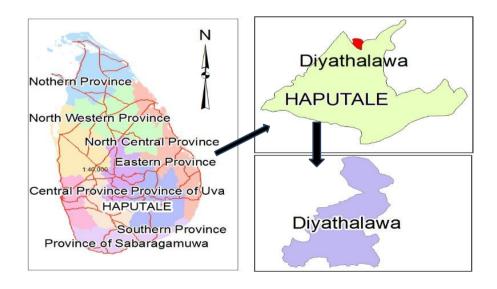
Since the first degree course was inaugurated on 4th October 1990 thirteen batches passed out and 484 students were conferred with their degree by now.

2. LOCATION OF ISMD

2.1 GEOGRAPHICAL LOCATION AND GEOMORPHOLOGY

The ISMD is the location at Diyatalawa about 200km away from Colombo in Sri Lanka. It embraces an area of nearly 25 Hectares in undulated terrain surface surrounded by sky hugging mountains, which contain eucalyptus, pine and tea plantations. It provides ideal situations studies and carrying out field exercises of students.

The altitude of the area is about 1200m above mean sea level. Geographically, the area is lying at 0° 49' 02' in latitude and 80° 57'34' in longitude. It has different climatic conditions at different times in a year such as cool winters and warm summers. However, generally, a temperate climate remains throughout the year.



2.2 HOW TO REACH ISMD

Institute of surveying and Mapping is just close by the Diyatalawa town and adjoining to the Bandarawela-Diyatalawa main road and therefore, one can find it with no difficulty. The ISMD can be easily accessed either by bus bound for Bandarawela or Badulla from Colombo or by train bound for Badulla from Colombo.

The bus route from Colombo to Diyatalawa lies via main towns namely, Avissawella, Rathnapura, Pelmadulla, Balangoda, Beragala, and Haputhale and the Journey takes about 7 hours. The rail line runs through picturesque countryside and tea plantations touching main towns, Kandy, Hatton, Nanuoya, Pattipola, and Haputhale, and it takes about 9 hours to reach Diyatalawa There is no doubt that travelling by train is much more interesting and enjoyable as it runs through hilly areas surrounded by extensive low lands and waterfalls with picturesque scenes.

2.3 GENERAL FACILITIES

On the shopping front, no one will be disappointed at Diyatalawa. The Closest thriving commercial city is Bandarawela situated 5 Km away from ISMD while one can meet daily needs at Diyatalawa Shopping area .Bandarawela, renowned for flowers, is one of the most attractive and beautiful city is the island and always congested with both local and foreign tourists. Getting Bandarawela from Diyatalawa is easy as there is a frequent and regular bus service between Diyatalawa and Bandarawela.

Many of the leading schools in the Uva province are situated at Bandarawela. These schools provide an excellent education to the children of the suburb in major three languages Sinhala, Tamil and English.

As for health facilities, government hospitals are available at Diyatalawa and Bandarawela. In addition, one can find a well-known Ayurvedic hospital at Diyatalawa just close by the government hospital.

Diyatalawa town is also equipped with, among others, state Banks, Railway Station, cinema hall, Post office, Temples, Churches and mosques etc.., so that dwellers in and around Diyatalawa can meet their daily requirements conveniently. Other infrastructure facilities like telephone, electricity and water also provide a regular service to the public.



3. STUDY PROGRAMMES

The Institute of Surveying and Mapping offers Five Programmes.

- 1. Bachelors Programme
- 2. Orientation Training Programme
- 3. Diploma Programme
- 4. Certificate Course
- 5. Short-Term Courses

3.1 BACHELORS PROGRAMME

3.1.1 BACHELORS' DEGREE COURSE IN SURVEYING SCIENCES

It is a 150-credit degree programme. This course has been designed so as to provide knowledge on Photogrammetry, Remote Sensing, Hydrography and Cartography other than Geodesy and Land Surveying. It consists of additional subjects such as Land Law, Land Valuation, and Professional Studies, which make it suitable for Land Administration as well.

3.1.2 Course Objectives:

✓ The main objective is to produce eminently suitable professionals in the fields of Land Surveying, Geodesy, Photogrammetry, Remote Sensing, Geographic Information System, Land Information System and Cartography.

- ✓ The degree programme includes industrial training component to enhance practical skills of graduates to assemble and assess land and geographic related information extraction and visualization for the purpose of planning and development of the country.
- ✓ Identify and apply relevant spatial science principles to solve problems and analyze geospatial applications data.
- ✓ Establishing, designing and maintaining geospatial technologies and infrastructure standards.
- ✓ Logically, rationally and legally conducting the surveying activities.
- ✓ Demonstrate responsibilities and self-learning skills through meaningful and constructive reflection.

3.1.3 Admission Requirements:

All applicants should be above 18 years of age. And

Direct Admission from B.Sc. degree holders: Should have B.Sc. Degree (with Mathematics or Physics as a subject of the degree) or Information Technology (having passed Mathematics in GCE A/L examination) or civil engineering from a recognized university or institute recognized by University Grant Commission and have been recruited as an apprentice surveyor to Survey Department according to existing Sri Lanka Survey Service Minute, or

Admission from the Departmental officers: Sri Lanka Technological Service (SLTS) officers in Survey Department of Sri Lanka who satisfy the following conditions are admitted to the degree programme.

Officers working and confirmed in their post in Sri Lanka Technical Service of Survey Department and passed G.C.E. (A/L) in Mathematics at old or . Should have passed a competitive written examination conducted by the examination branch of Survey Department.

3.1.4. Programme Structure:

Course Code	Course Title	Credit Rating
1101	Calculus	1.0
1102	Elementary statistics	2.0
1103	Vector Analysis	1.0
1104	Series	2.0
1105	Spherical Trigonometry	2.0
1106	Newtonian Mechanics	2.0
1107	Waves	2.0
1108	Light and Optics	2.0

1201	Geometry	2.0
1202	Differential equations	2.0
1203	Operations on matrices	2.0
1204	Numerical analysis	2.0
1205	Applied statistics	2.0
1206	Complex variables	2.0
1207	Electricity & Magnetism	2.0
1208	Electronics & Thermal	2.0
	Physics	

2101	Cartography I	2.0
2102	Geodesy I	2.0
2103	Land Surveying I	3.0
2104	Land Surveying I Practical	8.0
2105	Technical English	2.0
2106	Land Administration	2.0
2107	Professional Studies	2.0
2108	Survey Regulations	2.0
2109	Computer Science	4.0

Course Code	Course Title	Credit Rating
2201	EDM	2.0
2202	Land Law & Land Consolidation	2.0
2203	Land Surveying II	2.0
2204	Land Surveying ii Practical	8.0
2205	Geodesy II	2.0
2206	Cartography II	2.0
2207	GIS I	2.0
2208	Remote Sensing I	2.0
2209	Photogrammetry I	2.0

3101	Land Surveying III	2.0
3102	Land Surveying III Practical	8.0
3103	Adjustment theory I	3.0
3104	Geodesy III	3.0
3105	Photogrammetry II	3.0
3106	Remote Sensing II	3.0
3107	GIS II	4.0

3201	Adjustment Theory II	2.0
3202	Land Surveying IV	2.0
3203	Modern systems in land	2.0
	surveying	
3204	Geodesy IV	3.0
3205	Photogrammetry III	
3206	Cartography III	2.0
3207	Remote Sensing III	
3208	Hydrography	2.0
3209	Urban And Rural Planning	2.0
3210	Research Project	6.0

Course Code	Course Title	Credit Rating
4101	Geodetic Task	12.0
4201	Industrial Training In Field**	14.0

3.1.5. Course Fee

For more information please refer the website; www.ism.ac.lk

3.1.6. Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235



3.2. ORIENTATION TRAINING PROGRAMME

3.2.1. Orientation Training Programme for Surveying Graduates

This course included three modules and each module consists of two months period. The final Written examinations will be conducted at the end of last modules on all the subjects in addition to assignments, tutorials and practical examinations. Normal passes are based on the cumulative Point Hour Ratio. Minimum Cumulative Point Hour Ratio of 2.00.

3.2.2. Course Objectives

After successful completing of the course candidates will be capable of handling surveys according to the statutory law in Sri Lanka, and utilize the government resources (Human, Finance and Physical) according to Financial Regulation and Establishment Code.

3.2.3. Admission Requirements

Should have Bachelor's degree (B.Sc) in Surveying Science from recognized University or Institute.



3.2.4 Programme Structure

Course Code	Course Title
OC11001	Standing Orders I
OC11002	Professional Studies I
OC11003	IT Applications
OC11004	Digital Data Management
OC11005	Department Survey Regulations I
OC11006	Special Types of Surveying I
OC11007	Technical Report and Presentation I

OC12001	Standing Orders II
OC12002	Professional Studies II
OC12003	Modern Technology
OC12004	Department Survey Regulations II
OC12005	Special Types of Surveying II
OC11006	Technical Report and Presentation II

OC13001	Department Survey Regulations. III
OC13002	Special Types of Surveying III
OC13003	Technical Report and Presentation III

3.2.5. Course Fee

For more information please refer the website; www.ism.ac.lk

3.2.6. Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235

email:dsgacademic@survey.gov.lk





3.3. DIPLOMA PROGRAMME

3.3.1. Diploma of Cartographic Technician / Remote Sensing

Technician / Photogrammetric Technician / Aerial Photographer
and Laboratory Technician / Litho Technician /

ProcessTechnician/Typographer

3.3.2. Course objectives

To cater to the needs of the Survey Department in the training of it's Cartographic, Remote Sensing, Photogrammetric, Aerial Photographer and Lithography Technicians.

3.3.3. Admission Requirements

Should have passed the G. C. E. (A/L) Examination in three subjects in science/mathematics/technology subject stream in one sitting with two subjects of Combined Maths and Physics.

and

Should have passed the G. C. E. (O/L) Examination in six (06) subjects in one sitting with credit passes for Sinhala/Tamil/English language, Science, Mathematics and another one subject

3.3.4 Programme Structure

Course Code	Course Title	Credit Rating
SLTS111001	English I (ENGL I)	01
SLTS111002	Mathematics I (MATHS I)	02
SLTS111003	Physics I (PHY I)	01
SLTS111004	Elementary Surveying I (SUR I)	02
SLTS111005	Surveying Practical I (SURP I)	02
SLTS111006	Cartography I (CARTO I)	02
SLTS111007	Remote Sensing I (RS I)	02
SLTS111008	Photogrammetry I (PHOTO I)	02
SLTS111009	Departmental Orders I (ORDERS I)	02
	Total	16

SLTS112001	English II (ENGL II)	01
SLTS112002	Departmental Orders II (ORDERS II)	01
SLTS112003	Elementary Surveying II (SUR II)	02
SLTS112004	Surveying Practical II (SURP II)	02
SLTS112005	Cartography II (CARTO II)	02
SLTS112006	Remote Sensing II (RS II)	02
SLTS112007	Photogrammetry II (PHOTO II)	02
SLTS112008	Computer Science I (CS I)	01
SLTS112009	Geographical Information System I (GIS I)	01
SLTS112010	Land Information System (LIS) & Parcel Fabric	01
	Total	15

Course Code	Course Title	Credit Rating
SLTS211001	Mathematics II (MATHS II)	02
SLTS211002	Physics II (PHY II)	01
SLTS211003	Elementary Surveying III (SUR III)	02
SLTS211004	Surveying Practical III (SURP III)	02
SLTS211005	Cartography III (CARTO III)	02
SLTS211006	Lithography I (LITHO I)	02
SLTS211007	Typography I (TYPO I)	02
SLTS211008	Photogrammetry III (PHOTO III)	02
	Total	15

SLTS212001	Mathematics III (MATHS III)	02
SLTS212001	Physics III (PHY III)	01
SLTS212001	Geographical Information SystemII (GIS II)	01
SLTS212002	Computer Science II (CS II)	01
SLTS212003	Cartography IV (CARTO IV)	
SLTS212004	Remote Sensing III (RS III)	
SLTS212005	Lithography II (LITHO II)	
SLTS212006	Typography II (TYPO II)	02
SLTS212007	Processgraphy I (PROCESS I)	
SLTS212008	Photogrammetry IV (PHOTO IV)	
SLTS212009	Air Navigation (NAV)	
SLTS212010	Mini Project	05
	Total	12

3.3.5. Course Fee

For more information please refer the website; www.ism.ac.lk

3.3.6.Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235

email:dsgacademic@survey.gov.lk



3.4 CERTIFICATE COURSE

3.4.1. National Certificate in Survey Field Assistant (NVQ Level 2/3)

In the training programme, a trainee will learn the entire process of assisting the surveyor to carry out any type of land surveys. This essentially includes survey instrument handling and caring during and after the surveys.

3.4.2. Course objectives

The candidates who successfully complete the training programme will qualify as survey field assistants and are capable of being working as a survey field assistants in the industry.

3.4.3. Admission Requirements

Should have passed the G. C. E. Ordinary Level Examination in six (06) subjects with at least two credits passes in not more than two sittings.

3.4.4. Programme Structure

Module Code	Module Title
M-01	Identification of survey site
M-02	Preparation of site for surveying
M-03	Preparing sketch of the survey site
M-04	Setting up surveying and leveling instruments
M-05	Carrying out surveys
M-06	Maintaining instruments
M-07	Record keeping
M-08	Maintaining sub stores.
M-09	Maintaining the services of officers.
M-10	Maintaining the relationship

3.4.5. Course Fee

The course fee is Rs. 5,000/= per participant.

3.4.6. Contact Details

For more information please refer the website; www.ism.ac.lk

3.5. SHORT - TERM COURSES

The institute has successfully conducted more than 10 short-term courses by now for the officers attached to other organizations and students of Universities, Technical colleges, Military Academy etc. The course duration, content and other specifications are changed appropriately depending on the background of course participants concerned and the organization to which they are attached. The institute recognizes that there is an increasing demand for these courses and as such, these courses are reviewed regularly by the authority and takes necessary measures to enhance the quality. The feedback of the participants at the end of each course will be taken into consideration in this respect.

In addition, Short-Term Refresher courses are conducted for the officers in the Survey Department (SLSS officers) who are, at present, working as Govt. Surveyors and SLTS officers under a special project known as Continues Professional Development Project (CPDP). A summarized description of all courses conducted so for is given under this subsection. More information, if needed, can be obtained from the Director of ISMD.



3.4.1. Outline of Available Short Courses

Course Code	Course Name
SC 0300	Fundamental of surveying
SC 0301	Basic Leveling
SC 0302	Surveying & Levelling for Engineering students
SC 0303	Total Station for Topographical Surveys and Setting Out
SC 0304	Road Surveys
SC 0305	Survey Plans & Related Laws
SC 0306	AutoCAD for Plan Beginners
SC 0307	GIS for Beginners
SC 0308	Advanced GIS
SC 0309	Remote Sensing and Photogrammetry for Mapping
SC 0310	Introduction Programme on Navigation
SC 0311	Training programme on GNSS



	Course Code: SC 0300
Course Name:	Fundamental of Surveying & Levelling
-	The course has been designed for those who have basic know ledge in Survey Field
Course Content:	
principl Theodol survey p ✓ Levellin Acquire spirit lev of Level road. ✓ Survey	colite Surveying: Linear and angular measurements, booking to of survey measurement, Traversing & Detail Surveying with lite, preparation of coordinate sheet and preparation of colan using conventional methods. Ing. Longitudinal Section (LS) & Cross Section (CS) knowledge on fundamental of levelling, correct methods of coelling and profile levelling, Level Book Keeping and reduction Line by Rise & Fall Method and LS & CS survey along with Total Station: Introduction to the concept of total and familiar with handling of total station.
Target Group :	Draughtsman, Quantity Surveyors, Technical
	Officers & Engineering Assistants
Course Duration:	5 days
Time Period :	08.00 am to 05.00 pm
Nature of the Cours	e: Lectures & Practical
Course fee per cand	Rs. 20,000.00 + Vat (Inclusive of accommodation)
Benefits :	A certificate of attendance will be awarded at the end of the course
Course Evaluation :	Practical tasks will be evaluated to measure performance.
Number of Particip	pant: Minimum 20 participants and maximum 30

			Course Code: SC 0301	
Cour	rse Nar	ne:	Basic Levelling	
Syno	psis:		The course is aimed at students with little or no previous experience of using levelling equipment.	
Cour	rse Con	tent:		
	✓ Introduction to Leveling :Definitions, Introduction to Leveling Instruments, Establishment of Bench mark for Leveling		n to Leveling :Definitions, Introduction to Leveling	
			Establishment of Bench mark for Leveling	
	✓	Leveling Pr	ocedures :Fundamentals of Leveling, Methods of	
	Booking, Height of Collimation and Rise & Fall method, Reduction level		ight of Collimation and Rise & Fall method, Reducing	
	✓	Practical fie	eld Levelling Exercise: Practice in reading and	
	booking, Sources of error in levelling and acceptable closures, Tw		urces of error in levelling and acceptable closures, Two	
		peg test field practical &Instrument check, Practical field levelling		
		-	ctical covering topographical detail levelling, Setting	
		out levels for Site datum – (Establishing a TBM)		
	\checkmark	Use of digital levels (overview)		

Target Group:	Draughtsman, Quantity Surveyors, Technical Officers & Engineering Assistants
Course Duration:	2 days
Time Period :	08.00 am to 05.00 pm
Nature of the Course :	Lectures & Practical
Course fee per candidate :	Rs.8,000.00 + Vat (Inclusive of accommodation)
Benefits:	A certificate of attendance will be awarded at the end of the course
Course Evaluation :	Practical tasks will be evaluated to measure performance.

Number of Participants: Minimum 20 participants and maximum 30

		Course Code: SC 0302	
Course Name: Surve		Surveying & Levelling for Engineering students	
Synops	sis:	The course has been designed for those who have learning	
		surveying & leveling as subject in their studies	
Course Content:			
	✓ Introducti	ion to Concept & Principle of Surveying	
		rvey & Linear Measurements: Field measurement, Field ping & Plan Work.	
	✓ Theodoli Horizonta detail Sur	 ✓ Theodolite Surveying: Observing, booking and reducing, Horizontal angles, vertical angles and slope distances and detail Survey, Calculations - co-ordinates, angles, bearings, Preparing plan using field notes and calculating extents. ✓ Fundamentals of Leveling: Fundamentals of Leveling, Introduction to Leveling Instruments, Establishment of Bench mark for Leveling, Calculation Reduced Level ✓ Theory & Practical for Road Longitudinal & Cross Section(LS&CS) 	
	to Leveling		
	✓ Introducti	ion to Total Station Survey: Field data collection using on & Data Downloading and Processing	
		✓ Introduction to Construction Survey: Engineering Survey & Plan Work, Setting outs of building and vertical & horizontal curves.	
	✓ Introduction to Globle Positioning System (GPS): Introduction GPS & Field data collection using Hand Held GPS & Processing.		
Target Group: Engineering Students		Engineering Students	
Course	Duration :	10 days	
Time I	Period :	08.00 am to 05.00 pm	
Nature	of the Course :	Lectures & Practical	
	fee per candidate		
Benefits:		A certificate of attendance will be awarded at the end of the course	
		5	

Number of Participants: Minimum 20 participants and maximum 30

performance.

Practical tasks will be evaluated to measure

Course Evaluation:

		Course Code: SC 0303	
Coi	urse Name:	Total Station for Topographical and Engineering Surveys	
· ·		The course has been designed for those who have basic knowledge in Survey Field	
Cou	ırse Content:	<u> </u>	
	✓ Concept a	nd Principle of Surveying	
		on to Total Station – Familiarization instrument settings, stant and atmospheric corrections. Setting up jobs, storing	
	✓ Field data Station fo Download	ata collection using Total Station: Collecting data using Total for a given small block including all detail & Data ading and Processing. And Preparing plan using field notes tal Station Instrument and calculating extents. Pering Surveys With Total Station: Familiarizing to do levelling tal Station and do engineering surveys for small block and	
	✓ Engineeri		
	✓ Setting ou spread she	at with Total Station: Using Survey Drawing software and elets to help input data and check Setting out of as built points, to be be and distance & Setting out by co-ordinates.	
Tar	get Group :	Quantity Surveyors, Technical Officers,	
		Engineering Assistants & Engineers	
Course Duration:		05 days	
Time Period :		08.00 am to 05.00 pm	
Nature of the Course :		: Lectures & Practical	
Cou	ırse fee per candia	late: Rs. 20,000.00 + Vat (Inclusive of accommodation)	
Ben	refits :	A certificate of attendance will be awarded at the end of the course	
Cou	ırse Evaluation :	Practical tasks will be evaluated to measure	

Number of Participants: Minimum 20 participants and maximum 30

performance.

Course Code: SC 0304		
Course Name:	Road Surveys	
-	The course has been designed for those who have basic mowledge in Survey Field	
Course Content:		
Instrument ✓ Levelling Methods of Reducing of levelling &Instrume ✓ Principles parabolic area and v ✓ Theory &	on to Levelling: Definitions, Introduction to Levelling is, Establishment of Bench mark for road works Procedures for Road Surveys: Fundamentals of Levelling if Booking, Height of Collimation and Rise & Fall method level, Practice in reading and booking, Sources of error is and acceptable closures, Two peg test field practical int check & Establishing a TBM for road surveys. of route location and design: The theory of circular and spiral curves; highway and railway geometric design olumes of earthwork Practical for Road Longitudinal & Cross Section (LS&CS) thorizontal circular curves—Basic calculations	
Target Group :	Technical Students, Quantity Surveyors, Technical Officers & Engineering Assistants & Engineers	
Course Duration :	03 days	
Time Period :	08.00 am to 05.00 pm	
Nature of the Course	: Lectures & Practical	
Course fee per candid	date: Rs. 12,000.00 + Vat (Inclusive of accommodation)	
Benefits:	A certificate of attendance will be awarded at the end of the course	
Course Evaluation:	Practical tasks will be evaluated to measure performance.	
Number of Participan	ts: Minimum 20 participants and maximum 30	

	Course Code: SC 0305
Course Name:	Survey Plans & Related Laws& Techniques
• •	The course has been designed for those who have basic knowledge in Survey Field
Course Content:	
✓ Acts o	on surveying
	lling of survey requisition properly & Preparation of sketches ate places for surveying.
	duction to various categories of plans, maps, diagrams &
	ening boundaries in the ground using plans
✓ Maps	& Plans reading
✓ Data	collection using modern techniques &displaying
✓ Introd	duction to Grid coordinates system
_	g Hand Held GPS, storing & downloading the collected data Computer. Field data collection
✓ Overl them.	laying the downloaded data on Google Maps & locating using
✓ Introd	duction to acts on land & land administration
✓ Visitir	ng programme (Photogrammetric lab, Museum)
Tanget Croup	Land officers & Colony officers.
Target Group:	•
Course Duration:	2 day
Time Period:	08.00 am to 05.00 pm
Nature of the Course	
Course fee per candid	Rs. 8,000.00 + Vat (Inclusive of accommodation)
Benefits:	A certificate of attendance will be awarded at the end of the course
Course Evaluation:	Practical tasks will be evaluated to measure performance.
Number of Participan	ts: Minimum 20 participants and maximum 30

		Course Code: SC 0306
Course Name: Auto		AutoCAD for Plan Beginners
		The course has been designed for those who are already occupied in the in land administrative sector.
Cou	rse Content:	
	√	Introduction to AutoCAD and Working with the Windows Environment
	√	Creating Your First Drawing, Viewing and Plotting a Drawing, Basic CAD
	✓ Creating Basic Geometry, Annotating a Drawing with Text and Hatching	
	✓ Preparing survey plan with field notes and calculating extent	
	✓ Introduction to SDCad and plan preparation using SDCad.	
	√	Introduction to digital TL preparing process in Survey Department
Tarş	get Group :	Who would need to have a certificate as an Auto cad Draftsman in their career development
Course Duration:		: 3 day
Time Period :		08.00 am to 05.00 pm
Nati	ure of the Coi	urse: Lectures & Practical
	rse fee per didate :	Rs. 9,000.00 + Vat (Inclusive of accommodation)
Benefits:		A certificate of attendance will be awarded at the end of the course
Cou	rse Evaluatio	n: Practical tasks will be evaluated to measure performance
Nur	nber of Partici	ipants: Minimum 20 participants and maximum 30

	Course Code: SC 0307		
Course Name:	GIS for Beginners		
Synopsis:	The course has been designed for those who have interested to learn basic knowledge in GIS		
Course Content:			
and fur	luction to GIS: Overall introduction to GIS with its capability nction in geographical data analysis, Data Modelling & Different of data input to Data Input in GIS.		
enviro			
image			
I	Analysis: Analysing of spatial and attribute data of a particuland building up queries for decision making.		
	aration of Database: Preparation of Database to crate dual GIS and doing spatial analysis with available tools.		
Target Group :	GIS users from Forest, Wildlife, Archaeological departments & Land Use Planners, Decision makers, Policy developers, Head of the departments		
Course Duration	: 3 days		
Time Period :	08.00 am to 05.00 pm		
Nature of the Cou	urse: Lectures & Practical		
	D 0 000 00 - W - (T 1 ' C 1 - ')		
Course fee per candidate :	Rs. 9,000.00 + Vat (Inclusive of accommodation)		
Course fee per candidate :	A certificate of attendance will be awarded at the end of the course		
Course fee per	A certificate of attendance will be awarded at the end of the course		

		Course Code: SC 0308		
Course Name: Adva		Advanced GIS		
Synd	psis:	The course has been designed for those who have basic knowledge in GIS		
Cour	rse Content:			
	its c	✓ Introduction to Advanced GIS: Overall introduction to GIS with its capability and function in geographical data analysis, Data Modelling & Different types of data input to Data Input in GIS.		
		✓ Creation of Own GIS: Preparation of Database to crate individue GIS for different purposes.		
	✓ Dealing with Cad Data to Create Land Information System(LIS): Processing of Cad Data for preparation of parcel based LIS and to perform parcel based analysis.			
	✓ Buile Mode	Build-up of Model Builder &Data Analysis: Developing of Model builder and performing spatial analysis for different purposes. 3D Analysis: Processing of different source of elevation data and preparation of contours & 3D models and working with ArcScene environment. Customization of GIS: Introduction to customization of GIS project according to the user requirement		
	✓ 3D A			
Target Group :		GIS users from Forest, Wildlife, Archaeological departments & Land Use Planners, Decision makers, Policy developers, Head of the departments and		
Course Duration :		: 3 day		
Time	e Period :	08.00 am to 05.00 pm		
Natu	ire of the Coi	urse: Lectures & Practical		
Course fee per candidate :		Rs. 9,000.00 + Vat (Inclusive of accommodation)		
	efits :	A certificate of attendance will be awarded at the end of the course		
Cour	rse Evaluatio	<i>n</i> : Practical tasks will be evaluated to measure performance.		
Nu	mber of Parti	cipants: Minimum 20 participants and maximum 30		

	Course Code: SC 0309		
Course Name:	Remote Sensing and Photogrammetry for Mapping		
Synopsis:	The course has been designed for those who have involved in Mapping Process and Image Interpretation		
Course Content:			
	ntroduction to Photogrammetry and the trend o hotogrammetry in today.		
	igital Photogrammetry and mapping with drone cameras.		
✓ P	 ✓ Principles of survey control and sighting of control stations ✓ Introduction to Remote Sensing and Type of Remote Sensing Images and its characteristics ✓ Hand Held on session with different kind of images with different software ✓ Data extraction from images 		
✓ D			
✓ M	ap updating with satellite images		
Target Group :	Technical officers from different departments who are involved in mapping activities		
Course Duration:	2 days		
Time Period:	08.00 am to 05.00 pm		
Nature of the Cour	se: Lectures & Practical		
Course fee per candidate :	Rs. 6,000.00 + Vat (Inclusive of accommodation)		
Benefits:	A certificate of attendance will be awarded at the end of the course		
Course Evaluation	: Practical tasks will be evaluated to measure performance		
Number of Participa	ants: Minimum 20 participants and maximum 30		

Course Name			
	e: Intro	oduction Program on Navigation	
· -		course is for those who are using maps & receivers for navigation	
		<u> </u>	
	•	apping & Map reading: Introduction of maps he Survey Department & Basic Elements of Maps	
	Introduction to usage of handheld GPS : Coordinate collection navigation and processing		
	Introduction of GPS base station: Visit to GPS base station and acquiring related knowledge		
√	Introduction	to photogrammetry: visit to photogrammetric lab	
✓ (Guided tour t	o museum	
Target Group :		Hand held GPS users, Navigators, Map users & Military Officers	
Course Duration:		01 day	
Time Period :		8.00 am to 05.00 pm	
Nature of the Course :		Guided tour	
Course fee per candidate :		Free of charge	
Benefits :		N/A	
Course Evaluation :		N/A	

Course Code: SC 0311			
Course Name:	Training Program on GNSS		
	To provide an understanding of fundamental concept of GNSS		
Course Content:			
✓ Introduction to GNSS and Type of Receivers: Concept of GNSS, Type of GNSS Receivers & Handheld GPS & Software related to Handheld GPS such as OziExplorer, Base camp & QGIS			
✓ Coordinate System & Parameters: Introduction to different terms such as Geoid, Ellipsoid, Datum, Map Projection (Transverse Mercator &SLD99 Parameters			
	✓ System Architecture of GNSS: Space, Control, User, Signals, Accuracy & Errors		
	✓ Measurement & Positioning: Types of positioning – RTK, Stati Satellite based augmentation System & Dilution of precision		
✓ Application of GNSS: Determining a Location, Navigation, Tracking, Mapping &Timing			
Target Group:	Technical Officers		
Course Duration :	5 days		
Time Period :	08.00 am to 05.00 pm		
Nature of the Cour	rse: Lectures & Practical		
Course fee per candidate :	Rs. 20,000.00 + Vat (Inclusive of accommodation)		
Benefits :	A certificate of attendance will be awarded at the end of the course		
Course Evaluation	Practical tasks will be evaluated to measure performance.		
Number of Particip	pants: Minimum 20 participants and maximum 30		

4. STAFF AND FACILITIES

4.1. GENERAL MANAGEMENT OF ISMD

The Management of ISM is vested on two statutory bodies: Academic Committee and Advisory & Coordinating Board.

The Academic Committee comprises of Director, the chief executive of ISMD and all other lectures, takes all academics decisions on curriculum, syllabus design, research & development, the appointment of examiners and moderators, and other academic matters that arise from time to time; however, the acceptance should be obtained from the Advisory & Coordinating Board.

The Advisory & Coordinating Board mainly deals with policy and management matters, and it also considers the recommendation of the Academic Committee with respect to academic matters. This Board has been appointed by the Hon. Minister of Lands to advise Surveyor General in taking policy decisions and other related activities connected with the affairs of the Institute. The Advisory & Coordinating Board usually meets once a month.

4.2 ADVISORY & COORDINATIG BOARD

Existing Advisory & Coordinating Board consists of following members:

- 1. Mrs. A.L.S.C.Perera Chairman, Surveyor General
- 2. Mr. K.L.A.Ranasinghe Silva Member, Former Surveyor General
- 3. Dr. K.Thavalingam Member, Former Surveyor General
- 4. Prof. S.B. Weerakoon Member, University of Peradeniya
- 5. Mr. W.T.M.S.B.Tennakoon Adl. Surveyor General (Non Member)
- 6. Mr. N.J.Wijenayake Secretary, Director (ISMD)

4.3 ACADEMIC STAFF

4.3.1 ISMD Senior Lectures:



Director
Mr. N.J.Wijenayaka
Senior Lecturer
B.Sc. (Hons) (University of Ruhuna, Sri Lanka)
Higher Diploma in Surveying (ISMD, Sri Lanka)
M.Sc. in Geoinformatics (ITC, The Netherlands)
Certificate in Urban Land Administration

Swedesurveys –Sweden **E-mail** – snrdsgtr@survey.gov.lk



Mr.K.T.C. Grero
Senior Lecturer
Diploma in Survey Technician
(Advanced Level)(ISMD, Sri Lanka)
B.Sc. in Surveying Sciences (ISMD, Sri Lanka)

Higher Diploma in Surveying (ISMD, Sri Lanka) M.Sc. in GIS & Remote Sensing (University of Peradeniya,Sri Lanka)

E-mail -dsgacademic@survey.gov.lk



Mr.M.T.M. Rafeek Senior Lecturer B.Sc. in Surveying Sciences (ISMD, Sri Lanka) Higher Diploma in Surveying (ISMD, Sri Lanka) M.Sc. in Geoinformatics (ITC, The Netherlands)

E- mail - rafeek308@gmail.com



Mr. T.D. Weeraperuma
Senior Lecturer
BSc(Hons)(University of Sri
Jayawardhanapura, Sri Lanka)
Higher Diploma in Surveying (ISMD, Sri
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M.Sc. in GIS & Remote Sensing (University

of Sri Jayawardhanapura, Sri Lanka)
E-mail – snrssgeodeticismr@survey.gov.lk



Mr. B.L.P.U. Silva Senior Lecturer Diploma in Survey Technician (ISMD, Sri Lanka) Higher Diploma in Surveying (ISMD, Sri

Lanka)

E-mail - snrssismr@survey.gov.lk



Mrs. S. Panagoda Senior Lecturer Diploma in Survey Technician (ISMD, Sri Lanka) B.Sc. in Surveying Sciences (ISMD, Sri Lanka) Higher Diploma in Surveying (ISMD, Sri Lanka) E- Mail - panagodasagarika65@gmail.com



Mrs. A.L.B. Gunasinghe Senior Lecturer Diploma in Survey Technician (ISMD, Sri B.Sc. in Surveying Sciences (ISMD, Sri Lanka) M.Sc. in GIS and Remote Sensing (University of Peradeniya, Sri Lanka) E-mail – snrsslecture4r@survey.gov.lk

4.3.2 ISMD Lecturers:



Mr. H.M.S.J.C.B. Herath Lecturer B.Sc. in Surveying Sciences (ISMD, SriLanka) Higher Diploma in Surveying (ISMD, SriLanka) E- Mail - chandana8764@gmail.com



Mr. V. Saman
Lecturer
B.Sc. in Surveying Sciences (ISMD, SriLanka)
Higher Diploma in Surveying (ISMD, SriLanka)
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Mr. I. Welikanna
Lecturer
BSc (University of Colombo, Sri Lanka)
B.Sc. in Surveying Sciences (ISMD,
SriLanka)
Higher Diploma in Surveying (ISMD,
SriLanka)
E-mail – indikaw_welikanna@yahoo.com

4.3.3. ASSISTANTLECTURERS



Mrs.S.H. Ramyalatha
Diploma in Survey Technicians (Advanced
Level) (ISMD, Sri Lanka)
Higher Diploma in Surveying ((ISMD, Sri
Lanka)



Mrs. R.A.S. Ranatunga B.Sc. in Surveying Science (Sabaragamuwa University of Sri Lanka) M.Sc. in Geoinformatics (University of Peradeniya,Sri Lanka)



Mrs. S.M.R.A. Pathirathne B.Sc. in Surveying Science (Sabaragamuwa University of Sri Lanka)



Mr. P.W.C.N.J.Perera B.Sc. in Surveying Science (Sabaragamuwa University of Sri Lanka)



Mrs.G.P.A.R. Ganehiarachchi B.Sc. in Surveying Science (Sabaragamuwa University of Sri Lanka)

4.3.4. Visiting Lecturers from the Senior Staff Officers of the Survey Department

Besides to above academic panel, time to time academic expert in different field will visit to ISMD as visiting lecturers to deliver lectures on following subjects.

- ✓ Hydrography
- ✓ Urban and Regional Planning
- ✓ Land Valuation
- ✓ Information Technology



5. INFRASTRUCTURE FACILITIES

The institute is provided with a lot of facilities; academic and welfare, to facilitate students, staff and others involved in administrative work in order to function all the academic and non-academic activities of the institute efficiently and effectively.





Computer Laboratory



The ISMD is well equipped with a computer laboratory possessing computers that support high quality modern software. The laboratory is open during the office hours and also in the night when the necessity arises. All the course participants, whatever the course, including consultancy services and short term courses will be given basic knowledge of selected computer applications. All these computers are on one network under ISMD Local Area Network (LAN).

Technical Library





The ISMD library is one of the most valuable assets of the institute. It has a numerous number of books in various fields, particularly in Surveying Sciences, Geodesy, Remote Sensing, GIS, Computer Science, Physics, Mathematics and so forth. The library is regularly flooded with journals, periodicals, research papers and proceedings in the field of Surveying and Mapping and also different fields related to. According to the recent censes there are journals and research papers in the library.

All textbooks are shelved separately according to their fields in a very systematic manner so that one can access any desired book easily, it devotes a special section to facilitate readers to refer books. All the students and staff members are automatically entitled to the lending membership at this library. Participants who attend short courses, however, are only allowed to refer the books in the reference section but not to borrow. Reference section as well as lending section is open for users during the office hours (From 0700h to 1545h) on week days.

Also initiative steps have already been taken to include all the information about books that are available in the library in a computer system so as to provide easy access to books. Consequently, readers can find the availability and location of a book within few seconds and need not to walk through shelves searching for books.

Photogrammetry Laboratory



This laboratory is equipped with an Analytical Stereo plotter (Planicomp P3) with PHOCUS software and drum plotter, one Wild B8 stereo plotter for Wide and Super Wide angles, Aerial photographs, Cameras, Stereoscopes, Parallax bars and other accessories necessary for proper training. This lab provides all the necessary facilities to carry out Photogrammetry practical effectively.

Survey Instruments and Equipments



An essential part of every course conducted by the institute is to carry out practical training related in Surveying and Levelling. To meet this requirement, ISMD has established an instrument and equipment unit, which plays a vital role in practical training. It possesses a good collection of instruments ranging from very old ones to very modern ones.

Transportation



Unlikely in other institutions, ISMD should have a good transport service in order to provide transportation frequently needed for field tasks in training programs and other administrative activities.

Accommodation



All regular students and permanent staff members are provided with accommodations within the ISMD premises during their staying. An extensive building program was launched under a special project funded by the UNDP at the time of promoting the institute as a degree-awarding institute in the late nineties. Under this project, ISMD was significantly improved physically, besides its academic enhancement. Two story buildings where all administrative and academic staff are housed, two story buildings for ladies hostel and gent's hostel, and three buildings for lecturer's residents can be cited as new additions, among others, to the ISMD premises.

Not only for the regular students but also for the course participant those who attend on short-terms courses will be provided with lodgings upon the request. However, the institute has limited facilities for married students.

All the quarters and hostels are equipped with limited furniture to meet the basic requirement of the occupants, but more items can be obtained, if needed, based on the additional payment for the excess. Occupants are expected to make a nominal payment exclusive of electricity and water for the period of stay.

The administrative authority of ISMD is very much particular and vigilant on the behavior of all inmates of ISMD premises and has imposed codes of disciplines on them with the aim of preservation of behavior dignity of the institute.



Institute of Surveying and Mapping Diyatalawa, Sri Lanka.

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