PROSPECTUS 2024

Institute of Surveying & Mapping
Diyatalawa

PROSPECTUS

2024

Institute of Surveying and Mapping
Diyatalawa
Sri Lanka

MESSAGE FROM THE DIRECTOR - INSTITUTE OF SURVEYING AND MAPPING

As the premier and pioneering higher education institute in the fields of surveying, leveling, and mapping in Sri Lanka, the Institute of Surveying & Mapping, Diyatalawa (ISMD) stands as one of the leading institutions in South Asia. We are proud to produce world-class surveying professionals who can compete globally, both academically and technically. As the 20th Director of this esteemed institution, I am deeply honored to lead such a prestigious institute alongside a dedicated and talented group of staff committed to excellence in the field of surveying and mapping.

Our institute has rightfully earned its reputation for providing high-quality education and training to students from across the country. At ISMD, all academic activities are meticulously designed to equip students with the best theoretical knowledge and the latest practical skills necessary for success in their respective fields. Furthermore, the degree programs offered at ISMD are thought fully crafted to meet the ever-evolving demands of the modern world. In alignment with our vision, “To be the focal point in Geo-informatics Education, Training, and Research in the South Asian Region,” we diligently pursue our mission: “Planning and Conducting Training Courses relating to Geo-informatics, Updating Educational Curricula, Guiding Professional Capacity Building, and Providing Technical Expertise and Consultancy Services.”

With a rich history and extensive experience in teaching and training, ISMD has garnered significant recognition in the surveying and mapping fields in Sri Lanka. We are now poised to ascend the broader ladder of

Geo-Informatics, striving to establish ourselves as the leading educational institute in Land Management and Geo-Informatics in the Asian region. ISMD is fully prepared to offer its very best to all who enter our doors, with the hope that they, in turn, will contribute their best to the country's development after graduation.

As the Director, I am committed to provide the necessary leadership to achieve our goals and objectives, in line with the Vision and Mission of the institute.

F.L. Karunarathne,
Director/ Senior Deputy Surveyor
General (Training),
Institute of Surveying and Mapping,
Diyatalawa.

Preface

Prospectus 2024 the sixth version of ISMD, has been arranged in five chapters so that one can walk through to find the required information easily. This booklet is prepared with the aim of providing all the information related to the institute physically and academically. The information those were available at the preparation has been included in this prospectus.

The first chapter provides general information about the institute, including its history and functions. The second chapter describes the location of the institute, while the third chapter details the study programs and courses offered. Chapter four covers information related to the managerial sector and staff details, and the final chapter describes the infrastructure facilities.

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.F.L Karunarathne, the Director (ISMD), and Mr. P.K.R. Chintaka, D.S.G. (Academic) for providing the necessary information, also my thanks are due to Mrs.S.M.R.A.Pathirathna, Lecturer, Mrs.D.M.T.M.Disanayake, Information & Communication Technology officer and Mr.W.M.S.D. Weerasingha, Map Technological Officer helped me to produce this booklet in a good manner.

N.M.A.Wijerathna

Senior Lecturer / Senior Superintendent of Surveys

Editor

OUR VISION

"…. To be the focal point in Geoinformatics Education, Training & Research in South Asian Region aiming to produce Professional Expertise…."

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

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

The training of surveyors began in 1896, over a century ago. Prior to this, surveyors were trained in the field by working closely with experienced senior surveyors, gaining knowledge through 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 Upland were declared unsafe by the public work.

Finally, an ideal location was found for the training school, which was the deserted Boer war prisoners' 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 of 1969.

1.2. THE MAIN FUNCTIONS OF ISMD

Prior to 1967, the training activities were purely confined to training of surveyors for 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 programme 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 diplomas to individuals who have pursed the courses of study at the institute and have successfully passed its examinations
- 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 courses.

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 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 through 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 diploma course, the ISMD started to conduct a four-year degree course in Surveying Sciences. The Ministry of Higher Education, by extraordinary gazette notification No. 2354/16/E dated October 18, 2023, upgraded the institute recognised for awarding the Bachelor of Science Honours in Surveying Sciences degree under Section 25A of the Universities Act No. 16 of 1978.

The Institute offers B.Sc honours degrees under the Gazzate notification on 18th October 2023. Since the first degree course was inaugurated on 4th October 1990 fourteen batches passed out and 497 students were conferred with their degree by now.

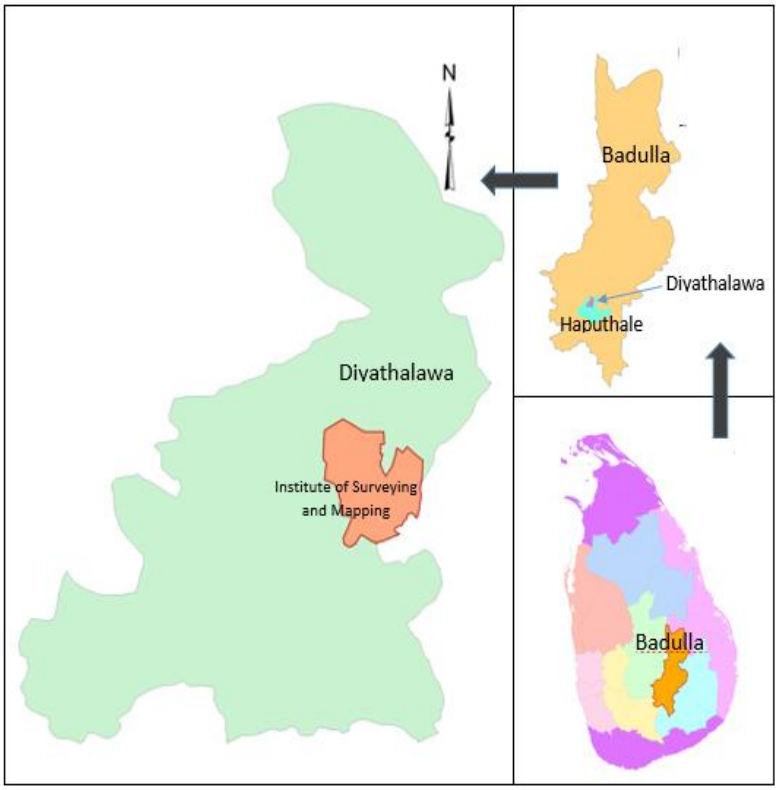
2. LOCATION OF ISMD

2.1 GEOGRAPHICAL LOCATION AND GEOMORPHOLOGY

The ISMD is located in Diyatalawa, approximately 200 km from Colombo, Sri Lanka. It spans an area of nearly 25 hectares with undulating terrain and is surrounded by towering mountains that feature eucalyptus, pine, and tea plantations. The institute offers an ideal setting for situational studies and field exercises for students.

The altitude of the area is about 1200m above mean sea level.

Geographically, the area is lying at 06º 48’ 57’’N in latitude and 80º 57’34’’E 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 from Colombo to Diyatalawa, 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 day needs at Diyatalawa Shopping area. Bandarawela, renowned for flowers, is one of the most attractive and beautiful city in 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 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. Job Orientation Training Programme for Surveying Graduates
3. Diploma Programme
4. Certificate Course
5. Short-Term Courses

3.1 BACHELORS PROGRAMME

3.1.1 BACHELOR OF SCIENCE HONOURS IN SURVEYING SCIENCES

It is a 137-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 Environmental Studies, which make it suitable for Land Administration as well.

3.1.2 **Course Objectives**:

The objectives of the programme are to:

- ✓ Provide an in-depth knowledge of the theory and methods in land surveying, mapping, cartography, photogrammetry, geographical information systems, and remote sensing, in order to prepare a skilled workforce in the field of Geo-Spatial Science to meet national and international needs.

- ✓ Demonstrate a clear appreciation of the application and limitations of survey and mapping techniques and new developments in surveying practice for large scale surveys, topographic surveys, engineering surveys, hydrographic surveys, Cadastral Surveys and other specified special types of surveying.

- ✓ Practice the analytical, managerial and professional skills required for the entry professional careers such as Land Surveyors & Geoinformatic Specialist (Such as Photogrammetrists, Experts in Geographical Information System, Remote Sensing Scientists and Cartographers).

3.1.3 Admission Requirements:

3.1.3.1. **Local Students (Proposed Annual Intake):**

Should have obtained three (3) Ordinary Passes(S) in any subject stream including the subjects of Combined Mathematics and Physics in one and the same sitting at the G.C.E. (Advanced Level) Examination conducted by the Department of Examinations of Sri Lanka

3.1.3.2. **Foreign Students (Proposed Intake):**

Equivalent or higher university entry qualifications are needed for any foreign candidates, as decided by Advisory and Coordinating Board of ISMD with the recommendation of the Academic Committee. The number of foreign students shall be limited to the maximum 25% of the local intake.

Moreover, students should be physically fit and not suffer from any disabilities to follow the courses. The authorities can request for Medical Certificate to this effect.

3.1.3.3. **Department Candidates:**

(a) Admission from Apprentice Surveyors: 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

(b)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.

a) Officers working and confirmed in their post in Sri Lanka Technological Service of Survey Department and passed G.C.E.(A/L) in Mathematics.

b) Should have passed a competitive written examination conducted by the examination branch of Survey Department.

3.1.4. Programme Structure:

Year I Semester I		
Subject Code	Subject	**Credit Value**
BDC 1101	Elementary Surveying	**2**
BDC 1102	Statistics and Calculus for Surveying	**2**
BDC 1103	Spherical Trigonometry and Matrices for Surveying.	**2**
BDC 1104	Applied Physics for Surveying	**2**
BDC 1105	Elementary Surveying Practical	**5**
BDC 1106	English I: Basic Study Skills	**2**
BDC 1107	Basic Cartography	**2**
BDC 1108	Fundamental of Geodesy	**2**
	Total	19

Year I Semester II		
Subject Code	Subject	**Credit Value**
BDC 1201	Surveying & Levelling	**2**
BDC 1202	Essential Mathematics for Surveying	**2**
BDC 1203	Electronics and Magnetism for Surveying	**2**
BDC 1204	Surveying & Levelling Practical	**5**
BDC 1205	English II: Scientific Writing & Speaking Skill	**2**
BDC 1206	Survey Regulations	**2**
BDC 1207	Land Law	**2**
BDC 1208	Elementary Astronomy	**2**
BDC 1209	Management for Surveyors	**2**
	Total	21

Year II Semester I		
Subject Code	Subject	**Credit Value**
BDC 2101	Advanced Land Surveying	**2**
BDC 2102	Advanced Land Surveying Practical	**6**
BDC 2103	Economics for Surveyors	**2**
BDC 2104	Geodetic Control Surveys	**2**
BDC 2105	Land Administration I	**2**
BDC 2106	Basic CAD for Surveyors	**2**
BDC 2107	Computer Science and Programming I	**2**
BDC 2108	Fundamental of Photogrammetry	**2**
	Total	20

Year II Semester II		
Subject Code	Subject	**Credit Value**
BDC 2201	Construction Surveying	**2**
BDC 2202	Construction Surveying Practical	**5**
BDC 2203	Physical Geodesy	**2**
BDC 2204	Computer Science and Programming II	**2**
BDC 2205	Analytical Photogrammetry	**2**
BDC 2206	Adjustment Theory I	**2**
BDC 2207	Advanced CAD for Surveyors	**2**
BDC 2208	Land Administration II	**2**
	Total	19

Year III Semester I		
Subject Code	Subject	**Credit Value**
BDC 3101	Fundamental of Geographical Information System	**2**
BDC 3102	Fundamental of Remote Sensing	**2**
BDC 3103	Digital Photogrammetry	**2**
BDC 3104	Adjustment Theory II	**2**
BDC 3105	Land Valuation	**2**
BDC 3106	Fundamental of GNSS	**3**
BDC 3107	Advanced Cartography	**2**
BDC 3108	Fundamentals of Hydrographical Surveying	**2**
BDC 3109	Fundamental of Database Management System.	**2**
	Total	19

Year III Semester II		
Subject Code	Subject	**Credit Value**
BDC 3201	Advanced Geographical Information System	**2**
BDC 3202	Advanced Remote Sensing	**2**
BDC 3203	Advanced GNSS	**3**
BDC 3204	Advanced Hydrographical Surveying	**2**
BDC 3205	Web Base Mapping Applications	**2**
BDC 3206	Research Methodology & Proposal Writing	**1**
BDC 3207	Geodetic Task	**8**
	Total	20

Year IV Semester I		
Subject Code	Subject	**Credit Value**
BDC 4101	Urban and Regional Planning	**2**
BDC 4102	Fundamental of Quantity Surveying	**2**
BDC 4103	Disaster Management and Geo Information	**2**
BDC 4104	Bachelor Thesis	**6**
	Total	12

Year IV Semester II		
Subject Code	Subject	**Credit Value**
BDC 4201	Industrial Training**	**7**
	Total	7

3.1.5. Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235

email : dsgacademic@survey.gov.lk


SAMUDDRIKA

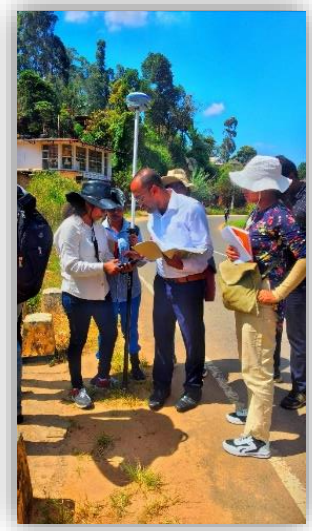
3.2. JOB ORIENTATION TRAINING PROGRAMME FOR SURVEYING GRADUATES

3.2.1. Orientation Training Programme For Surveying Graduates

This course included fourteen modules and module consists of one or more week period. Written examinations are conducted at the end of each 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

3.2.1.1. Course Objectives

The main objective of this programme to orient surveying graduates to handle surveying activities according to the statutory laws in Sri Lanka and departmental survey regulations. And also gives knowledge and experience to utilize government resources (Human, Finance, and Physical) according to the Financial Regulation and Establishment Code and to develop their professional qualities.



3.2.1.2 Requirements for Admissions

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

3.2.1.3 Programme Structure

The programme consists of fourteen modules with a final evaluation. All detail is structured in the below table.

Module No	Module Title	Weeks	Credit Value
OC_M_01	Departmental Structure and Office System	**1st**	**1**
OC_M_02	Office Correspondence	**2nd**	**1**
OC_M_03	Professional Ethics and Management for Surveyors	**3rd**	**1**
OC_M_04	Leadership Training	**4th**	**1**
OC_M_05	General Behavior, Discipline, &Disciplinary Procedures	**5th**	**1**
OC_M_06	Statutory Surveys in Sri Lanka	**6th & 7th**	**2**
OC_M_07	Record Updating and Report Preparation	**8th**	**1**
OC_M_08	Data Collection and Data Processing	**9th & 10th**	**2**
OC_M_09	Surveying a Block with Total Station and Preparation of Different Types of Plans	**11th, 12th & 13th**	**3**
OC_M_10	Surveys for Development Purposes	**14th**	**1**
OC_M_11	Statutory Laws Governing Surveying Activities in Sri Lanka	**15th**	**1**
OC_M_12	Modern Technology in Surveying and Levelling & Densification of Control Points Using GNSS	**16th**	**1**
OC_M_13	Application of Modern Technology in Surveying and Mapping	**17th & 18th**	**2**
OC_M_14	Case Studies at District Survey Office	**19th & 22nd**	**2**

3.2.1.4. Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235

Email : dsgacademic@survey.gov.lk

3.2.2. Prerequisite Course For Surveying Graduate Trainees

The curriculum for the prerequisite course is designed to train graduates with a degree in surveying sciences from a recognized university over a duration of thirteen weeks (three months) for qualifying survey activities in the Survey Department. The course provides in-house practical training for various survey activities in the Survey Department and is a prerequisite for further practical training in Sri Lanka. Graduates who complete the course are eligible to perform surveying activities under the Survey Department's supervision for 33 months, as per Land Survey Council (LSC) requirements. The course also includes comprehensive training in statutory surveying activities according to local regulations and laws.

3.2.2.1. Course Objectives

The objective of this course is to train the graduates in surveying sciences on the procedures and regulations for statutory surveys in Sri Lanka. They would be trained to carry out the surveying and mapping activities in accordance with the survey regulations in the Survey Department and the statutory laws in Sri Lanka. After completion this course successfully, the trainee graduates would be capable of handling the statutory surveys as per the statutory laws and regulations in Sri Lanka and able to manage properly the government resources (Human, Finance, and Physical) according to Financial Regulation and Establishment code acting on the government officers. This course is the prequalification for the practical training on survey activities in the Survey Department of Sri Lanka.

3.2.2.2 Requirements for Admissions

Candidates should have Bachelor's degree (B.Sc.) in Surveying Science from recognized University.

3.2.2.3 Programme Structure

Module No	Module Title	Weeks	Credit Value
PC_M_01	Department proceedings and professional conduct	**1st**	**1**
PC_M_02	Survey Regulations	**2nd & 3rd**	**2**
PC_M_03	Different types of Surveys	**4th**	**1**
PC_M_04	Data collection, processing, Report writing	**5th**	**1**
PC_M_05	Practical Task 1 (With Total Station) – Long term Lease	**6th & 7th**	**2**
	Practical Task 2 (With data in Task1) – BOD & Staking out	**8th**	**1**
	Practical Task 3 (With RT) - Court commission		
	Practical Task 4 (With Total Station) – LDO	**9th**	**1**
	Practical Task 5 (With Total station) – Acquisition surveys	**10th**	**1**
	Practical Task 6 (With Total Station) – Cadastral Survey	**11th &12th**	**2**
	Final Examination	13th	

3.2.2.4. 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 / Process Technician/Typographer

3.3.2. Course objectives

To cater to the needs of the Survey Department in the training of its Cartographic, Remote Sensing, Photogrammetric, Aerial Photographer and Laboratory Technicians.

3.3.3. Admission Requirements

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

Course Code	Course Title	Credit Rating
SLTS111001	English I	**01**
SLTS111002	Mathematics I	**02**
SLTS111003	Physics I	**01**
SLTS111004	Elementary Surveying I	**02**
SLTS111005	Surveying Practical I	**02**
SLTS111006	Cartography I	**02**
SLTS111007	Remote Sensing I	**02**
SLTS111008	Photogrammetry I	**02**
SLTS111009	Departmental Orders I	**02**
	Total	**16**

Course Code	Course Title	Credit Rating
SLTS112001	English II	**01**
SLTS112002	Departmental Orders II	**01**
SLTS112003	Elementary Surveying II	**02**
SLTS112004	Surveying Practical II	**02**
SLTS112005	Cartography II	**02**
SLTS112006	Remote Sensing II	**02**
SLTS112007	Photogrammetry II	**02**
SLTS112008	Computer Science I	**01**
SLTS112009	Geographical Information System I	**01**
SLTS112010	Land Information System (LIS) & Parcel Fabric	**01**
	Total	**15**

Course Code	Course Title	Credit Rating
SLTS211001	Mathematics II	**02**
SLTS211002	Physics II	**01**
SLTS211003	Elementary Surveying III	**02**
SLTS211004	Surveying Practical III	**02**
SLTS211005	Cartography III	**02**
SLTS211006	Lithography I	**02**
SLTS211007	Typography I	**02**
SLTS211008	Photogrammetry III	**02**
	Total	**15**

Course Code	Course Title	Credit Rating
SLTS212001	Mathematics III	**02**
SLTS212001	Physics III	**01**
SLTS212001	Geographical Information SystemII	**01**
SLTS212002	Computer Science II	**01**
SLTS212003	Cartography IV	**02**
SLTS212004	Remote Sensing III	
SLTS212005	Lithography II	
SLTS212006	Typography II	
SLTS212007	Processgraphy I	
SLTS212008	Photogrammetry IV	
SLTS212009	Air Navigation	
SLTS212010	Mini Project	**05**
	Total	**12**

3.3.6. Contact Details

Deputy Surveyor General (Academic):

Tele/Fax: 057- 2229235

email : dsgacademic@survey.gov.lk

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.

3.4.5. Programme Structure

Module Code	Module Title	Credit Rating
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	

3.4.7. Course fee

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

3.4.8. 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 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 sub section. 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	CAD 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
Synopsis:	The course has been designed for those who have basic knowledge in Survey Field
Course Content:	

- ✓ **Theodolite Surveying:** *Linear and angular measurements, booking principle of survey measurement. Traversing & Detail Surveying with Theodolite. Preparation of coordinate sheet and preparation of a survey plan using conventional method.*
- ✓ **Levelling, Longitudinal Section (LS) & Cross Section (CS)** *Acquire knowledge on fundamental of levelling. Correct methods of spirit levelling and profile levelling. Level Book Keeping and reduction of Level Line by Rise &Fall Method and LS &CS survey along a road.*
- ✓ **Surveying with Total Station:** *Introduction to the concept of total station 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 Course :	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 Participant: Minimum 20 participants and maximum 30

Course Code : SC 0301	
Course Name:	Basic Levelling
Synopsis:	The course is aimed at students with little or no previous experience of using levelling equipment.
Course Content:	
✓ **Introduction to Leveling:** *Definitions, Introduction to Leveling Instruments, Establishment of Bench mark for Leveling*	
✓ **Leveling Procedures:** *Fundamentals of Leveling, Methods of Booking, Height of Collimation and Rise & Fall method, Reducing level*	
✓ **Practical field Levelling Exercise:** *Practice in reading and booking, Sources of error in levelling and acceptable closures, Two peg test field practical & Instrument check, Practical field levelling exercise practical covering topo detail levelling, Setting out levels for Site datum – (Establishing a TBM))*	
✓ **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 Participant: Minimum 20 participants and maximum 30	

Course Code : SC 0302	
Course Name:	Surveying & Levelling for Engineering students
Synopsis:	The course has been designed for those who have learning surveying & leveling as subject in their studies
Course Content:	

- ✓ **Introduction to Concept & Principle of Surveying**
- ✓ **Chain Survey & Linear Measurements:** *Field Book Keeping, Chain Survey & Plan Work*
- ✓ **Theodolite Surveying:** *Observing, booking and reducing, Horizontal angles, vertical angles, and slope distances and detail Survey, Calculation – Co- ordinates, angles, bearings, Preparing plan using field notes and calculating extents.*
- ✓ **Fundamentals of Leveling:** *Fundamentals of Leveling, Introduction to Leveling Instruments, Establishment of Benchmark for Leveling, Calculation Reduced Level*
- ✓ **Theory & Practical for Road Longitudinal & Cross Section (LS & CS)**
- ✓ **Introduction to Total Station Survey**: *Field data collection using Total Station & 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 to GPS & Field data collection using Hand Held GPS & Processing*

Target Group :	Engineering Students
Course Duration :	10 days
Time Period :	08.00 am to 05.00 pm
Nature of the Course :	Lectures & Practical
Course fee per candidate :	Rs. 40,000.00 + 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 Participant: Minimum 20 participants and maximum 30

Course Code : SC 0303	
Course Name:	Total Station for Topographical and Engineering Surveys
Synopsis:	The course has been designed for those who have basic knowledge of Survey Field
Course Content:	

- ✓ **Concept and Principle of Surveying**
- ✓ **Introduction to Total Station** – *Familiarization instrument settings, prism constant, and atmospheric corrections. Setting up jobs, storing co-ordinates*
- ✓ **Field data collection using Total Station:** *Collecting data using Total station for a given small block including all detail & Data Downloading and Processing. And Preparing a plan using field notes from Total Station Instrument and calculating extents*
- ✓ **Engineering Survey with Total Station:** *Familiarization* to do *levelling with Total Station and do engineering surveys for small block and prepare contour plan.*
- ✓ **Setting out with Total Station:** *Using Survey Drawing software and spread sheets to help input data and check Setting out of as-built points. Setting out by bearing and distance & Setting out by co-ordinates.*

Target 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
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 Participants: Minimum 20 participants and maximum 30

Course Code : SC 0304	
Course Name:	Road Surveys
Synopsis:	The course has been designed for those who have basic knowledge in Survey Field
Course Content:	

- ✓ **Introduction to Leveling:** *Definitions, Introduction to Leveling Instruments, Establishment of Bench mark for road works.*
- ✓ **Levelling Procedures for Road Surveys:** *Fundamental of Levelling, Methods of Booking, Height of Collimation and Rise and Fall method, Reducing level, Practice in reading and booking, Sources of error in levelling and acceptable closures, Two peg test field practical & Instrument check & Establishing a TBM for road surveys.*
- ✓ **Principle of route location and design:** *The theory of circular, parabolic and spiral curves; highway and railway geometric design area and volumes of earthwork.*
- ✓ **Theory & Practical for Road Longitudinal & Cross Section(LS & CS)**
- ✓ **Setting out horizontal circular curves –Basic calculations**

Target Group :	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 candidate	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 Participants: Minimum 20 participants and maximum 30

Course Code : SC 0305	
Course Name:	Survey Plans & Related Laws & Techniques
Synopsis:	The course has been designed for those who have basic knowledge in Survey Field
Course Content:	

- ✓ *Acts on surveying*
- ✓ *Handling of a survey requisition properly & Preparation of sketches to locate places for surveying.*
- ✓ *Introduction to various categories of plans, maps, diagrams & tracings*
- ✓ *Reopening boundaries in the ground using plans*
- ✓ *Maps & Plans reading*
- ✓ *Data collection using modern techniques & displaying*
- ✓ *Introduction to Grid coordinates system*
- ✓ *Using Hand Held GPS, storing & downloading the collected data into the Computer. Field data collection*
- ✓ *Overlaying the downloaded data on Google Maps & locating using them.*
- ✓ *Introduction to acts on land &land administration*
- ✓ *Visiting programme (Photogrammetric lab, Museum)*

Target Group :	Land officers & Colony officers.
Course Duration :	2 day
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 0306	
Course Name:	AutoCAD for Plan Beginners
Synopsis:	The course has been designed for those who are already occupied in the in land administrative sector.
Course 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 SD Cad and plan preparation using SD Cad.*
✓	*Introduction to digital TL preparing process in Survey Department*

Target Group :	Who would need to have a certificate as an Auto cad Draftsman in their career development
Course Duration :	2 day
Time Period :	08.00 am to 05.00 pm
Nature of the Course :	Lectures & Practical
Course fee per candidate :	Rs. 9,000.00 + 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 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:	

- ✓ **Introduction to 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.*
- ✓ **Displaying Spatial Information :** *Adding collected data into GIS environment and preparation of digital maps and map layouts for different purpose.*
- ✓ **Data Georefereincing and Digitization:** *Transformation of image into local coordinate system with known control points and collecting data from georeferenced image using digitizing technology.*
- ✓ **Data Analysis:** *Analyzing of spatial and attribute data of a particular area and building up queries for decision making.*
- ✓ **Preparation of Database:** *Preparation of database to crate individual 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 Course :	Lectures & Practical
Course fee per candidate :	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 Participants: Minimum 20 participants and maximum 30

Course Code : SC 0308	
Course Name:	Advanced GIS
Synopsis:	The course has been designed for those who have basic knowledge in GIS
Course Content:	

- ✓ **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 create individual 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.*
- ✓ **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 Arc Scene environment.*
- ✓ **Customization of GIS:** *Introduction to customization of GIS project according to the user requirement.*

Target Group :	GIS users from Forest, Wildlife, Archaeological departments & Land Use Planners, Decision makers, Policy developers, Head of the departments
Course Duration :	3 day
Time Period :	08.00 am to 05.00 pm
Nature of the Course :	Lectures & Practical
Course fee per candidate :	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 Participants: 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:	
✓ *Introduction to Photogrammetry and the trend of photogrammetry in today.*	
✓ *Digital Photogrammetry and mapping with drone cameras.*	
✓ *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*	
✓ *Map 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 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 0310	
Course Name :	*Introduction Program on Navigation*
Synopsis:	The course is for those who are using maps & GPS receivers for navigation
Course Content:	

- ✓ **History of mapping & Map reading:** *Introduction of maps produced by the Survey department & Basic Elements of Maps Reading*
- ✓ **Introduction to usage of handheld GPS:** *Coordinate collection and 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 to 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

Note: Only provided for security forces & Educational institutes

Course Code : SC 0311	
Course Name:	Training Program on GNSS
Synopsis:	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 Survey 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, Signal, Accuracy & Error*
- ✓ **Measurement & Positioning:** *Type of positioning – RTK Static, 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 Course :	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 Participants: 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 lecturers, takes all academics decisions on curriculum, syllabus design, research & development, 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 in respect of 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 BOARD 2024

Existing Advisory & Coordinating Board consists of following members;

1. Mr.W.S.L.C.Perera – Chairman , Surveyor General
2. Mrs.A.L.S.C.Perera - Member, Former Surveyor General
3. Dr.K.Thavalingam – Member, Former Surveyor General
4. Prof. S.B.Weerakoon - Member, University of Peradeniya
5. Mr. U.M.A.B.Alahakoon - Member, Addl. Surveyor General
6. Mr.F.L.Karunarathne - Secretary, Director (ISM)

4.3 ACADEMIC STAFF

4.3.1 ISMD Senior Lectures

Director
Mr. F.L. Karunarathne
Senior Lecturer
Professional Master Degree in Geoinformatics (ITC, The Netherlands)
Post Graduate Diploma in Education (UoC, SL)
Higher Diploma in Surveying (ISMD, SL
B.Sc. (Hons)(UoC, SL)
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DSG (Academic)
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Planning & management of National mapping and Surveying (Japan)
B.Sc Hons (Physical Science) (UOK,SL).
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Mr.M.T.M. Rafeek
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Mr. T.L.A.P. De Silva
Senior Lecturer
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4.3.2. ISM Lecturers

Mr. H.M.S.J.C.B. Herath
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4.3.3. ASSISTANT LECTURERS

Mrs. D.G.T.I. Bandara
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Mr. S.A.Y. Harshajeewa
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Mr. T.I.P.Thilakarathna
B.Sc. in Surveying Sciences (ISMD, SL)
B.Sc. Physical Science (USJP,SL)

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

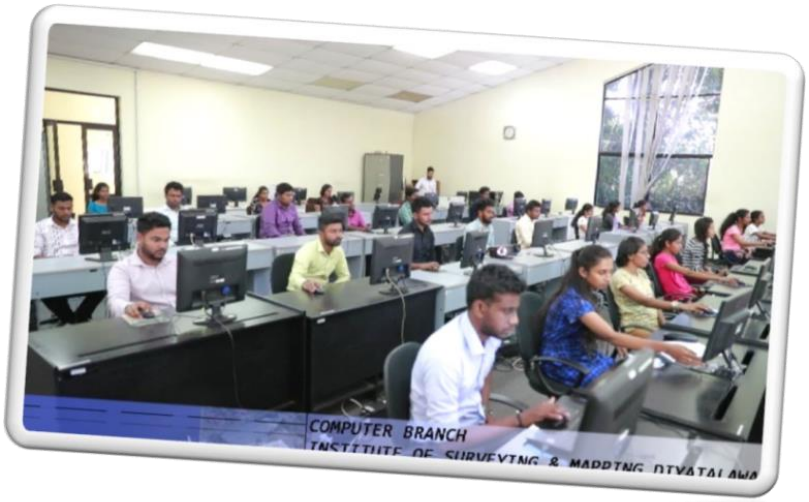
Besides to above academic panel, time to time academic expert in different field will visit to ISMD as visiting lecturers to deliver lectures on following subjects.

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

5. INFRASTRUCTURE FACILITIES

The institute is provided with 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 supports high quality modern software. The laboratory is open during the office hours and also in the night when 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).

Academic 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 census, 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 a lending membership at this library. Participants who attend short courses, however, are only allowed to refer to the books in the reference section but not to borrow. The reference section as well as a lending section is open for users during office hours (From 0700h To 1545h) on week days.

Also initiative steps have already been taken to include all the information of 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 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 dignity of the institute.

Institute of Surveying & Mapping
Diyatalawa