Leonardo di ser Piero da Vinci (April 15, 1452 – May 2, 1519) was an Italian polymath having been a scientist, mathematician, engineer, inventor, anatomist, painter, sculptor, architect, botanist, musician and writer. Born as the illegitimate son of a notary, Flori di Ser Piero, and a peasant girl Caterina, di Vinci in the region of Florence. Leonardo was advanced in the studio of the renowned Florentine painter Filippo Lippi.

Leonardo has often been described as the archetype of the "Renaissance man": a man whose seemingly infinite curiosity was equalled only by his powers of invention. He was widely considered to be one of the greatest polymaths of all time and perhaps the most diversely talented person ever to have lived.

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STUDENT HANDBOOK

Faculty of Engineering

2016-2020

South Asian Institute of Technology and Medicine (SAITM)
Malabe, Sri Lanka
Important:
Rules and Regulations given in this Handbook may be subject to change as per decisions of the Senate and the Ministry of Higher Education of Sri Lanka.
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1 Introduction
1.1 Message from the Chairman

South Asian Institute of Technology and Medicine (SAITM), inaugurated in the year 2008, is the first non-state sector multi-faculty higher educational institute in Sri Lanka. Recognized by the University Grants Commission (UGC) of Sri Lanka as a degree awarding institute, the campus is located in a picturesque setting with all modern amenities and requirements at Malabe, in the District of Colombo.

Established on the 1st of July 2009, SAITM Faculty of Engineering is offering study programs in Engineering leading to B.Sc. (Honors) degrees, which are fully approved and under the direct supervision of the Ministry of Higher Education, Sri Lanka.

I am pleased to note that the engineering faculty is progressing rapidly and producing quality graduates who are drawing high commendations for the industry. The faculty has achieved many milestones such as “International Research Symposium on Engineering Advancements”, a pioneering research symposium among non-state sector higher educational institutes. Moreover, faculty of Engineering is conducting very successful events such as the “Annual SAITM Robotics Challenge”, which has become a keenly anticipated annual event by students as well as industry personnel.

Dr. Neville Fernando
MBBS (Ceylon)
South Asian Institute of Technology and Medicine (SAITM) is the first non-state higher education institution with several faculties established in 2008 by visionary Industrialist and entrepreneur Dr. Neville Fernando.
The Faculty of Engineering was established on 1st July 2009 with Dr. Sisuru Sendanayake as the founding Dean. The faculty has gained a name and maintaining it by adhering to high academic standards and quality in par with contemporary faculties in state and non state sector of engineering education in Sri Lanka.

The Faculty consists of three departments, namely Department of Civil and Infrastructure Engineering, Mechatronics Engineering and Environmental and Bio-Systems Engineering. The academic staff consists of holders of Ph. D. in the respective fields of study who has wide experience in education and technology.

The degree program is of four year duration which is recognized by the Ministry of Higher Education under the Universities Act of 1978 from this year. Upon graduation by obtaining B.Sc. degree get the opportunity to enroll for the Master’s degree (MSc) at the Asian Institute of Technology – Thailand (AIT) subject to graduation performance.

SAITM is dedicated to education with character and in this endeavor provides facilities for extracurricular activities in sports such as Rugby, Basket Ball, Tennis, Cricket etc and esthetic studies. The institution maintains the university concept by having four faculties under one roof giving opportunity for the students following different degree program to meet each other to share knowledge and life experiences. In accordance with the Green Concept, steps have been taken to preserve the environment in and around the campus and the students get the opportunity to live in harmony with the environment and nature.

I am extremely happy to state that academics, professionals and management staff offer their services to develop the curriculum, build up the skills and knowledge and to provide training to our students. With the corporation that is given by the state, I am certain that our attempt at producing quality graduates will be a great success. I wish our students at SAITM life full of joy with academic excellence and service to the community.
1.3 Message from the Dean, Faculty of Engineering

It is a well-known fact that the world is in need of more and more engineers to sustain life on the planet. The massive amount of infrastructure development and services required in keeping with the rising world population and occurrence of unprecedented natural catastrophes, demand that engineers take leadership in guiding the humankind into a stable and safer era in which all human beings can exist with basic amenities and freedom. It is also important that re-building and new developments are based on sustainability principles.

With the world economic power shifting to Asia it is inevitable that the global knowledge base in the future will be firmly established in that region with more and more intellectual and skilled personnel produced. In the light of these developments, it is an important and timely step that the South Asian Institute of Technology and Medicine (SAITM) sets up a fully fledged Faculty of Engineering, becoming the pioneering non-state sector higher education institute to produce quality engineering graduates, who will be capable of meeting the local, regional and international standards.

Faculty of Engineering of SAITM within the short period of time since its establishment has set up fully functional, state of the art engineering laboratories and a team of top academics drawn from local and foreign universities in addition to all the necessary infrastructure facilities for a world class engineering education. With well-structured curricular and research projects and industry training combined with personal mentoring, our engineering undergraduates can obtain a top quality internationally recognized honors degree in Bachelor of Science which certainly can be considered a great boon for the youth of Sri Lanka and the South Asian region.

Dr. S. Sendanayake
B. Sc. Eng. (Honors), M. Sc., Ph.D.
Vision

To become a faculty which continues to produce world class engineers, highly employable with a solid background in advance engineering knowledge, research and hands on skills training who will be employable anywhere in the world and ready to face future challenges with discipline and confidence.

Mission

To turn – out highly skilled world class Engineering graduates who will command preference in the local, regional and international industry upon their graduation.
2 Organization and Administration of the Faculty of Engineering

2.1 Departments

Faculty of Engineering consists of three departments as follows:

- Department of Civil and Infrastructure Engineering
- Department of Mechatronics Engineering
- Department of Environmental and Biosystems Engineering

2.2 General Contact Information

Faculty of Engineering,
South Asian Institute of Technology and Medicine (SAITM),
Millennium Drive, New Kandy Road, Malabe, Sri Lanka.

Tel: + (94) 11 241 3351, + (94) 11 241 3331
Fax: + (94) 11 241 3332
Email: info@saitm.edu.lk
Map of the South Asian Institute of Technology and Medicine (SAITM)

Administration / Other Offices:

Ground floor: Offices of Registrar, Assistant Registrar, and Bursar
1st floor: Lecture rooms
2nd floor: Dean’s office, Faculty coordinating office, Department offices, and lecture rooms
3rd floor: Chairman’s office, Library, Reading rooms, and Examination hall
4th floor: Auditorium and Examination hall
2.3 Faculty Layout
3 Faculty of Engineering - SAITM

Established on the 1st of July 2009, SAITM Faculty of Engineering is the pioneering and the leading non-state sector Faculty of Engineering in Sri Lanka offering four year full time Bachelor of Science (B.Sc.) in Engineering degrees.

Equipped with the state of the art physical resources, with international standard engineering and computer laboratories, a well-stocked library and modern lecture halls, the faculty can boast of its highly qualified top notch team of full time academics and researchers and a selection of the best senior lecturers from state universities in Sri Lanka and abroad as visiting faculty.

The faculty also has an expert panel of extended faculty representing a wide spectrum of industries supplementing the study programs and research with industry links, mentoring, in-plant training and industry exposure culminating in ready employment opportunities for our graduates.

In year 2015, the faculty obtained approval from the Ministry of Higher Education to conduct four year full time degree programmes. All students enrolling for the B.Sc. degree programme will have the opportunity of perusing to AIT for the masters degrees subject to graduation performance.

3.1 Faculty Staff

The academic staff of the faculty consists of highly qualified persons in a wide range of specializations.

Their academic backgrounds, teaching experiences, research capabilities and industrial exposure are the main strengths that contribute to the present dynamic role played by the faculty. Over the past years the faculty has been successful in establishing significant contacts with local industry through its collaborative programmes such as Annual International Research Symposium (RSEA), Robotics Challenge (SRC), and Industry Consultative Board meeting (ICB).
3.1.1 Academic Staff

Dean, Faculty of Engineering

Dr. Sisuru Sendanayake
Ext: 207, Room: 201
email: sisuru.s@saitm.edu.lk

Head - Civil and Infrastructure Engineering

Dr. (Eng.) Rajeev Mallawaarachchi
B. Sc. Eng. (Hons.), Ph. D. (Moratuwa), AMIESL.
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eMail: rajeev.m@saitm.edu.lk

Head - Mechatronics Engineering

Dr. Thilini Rajakaruna
B. Sc. Eng. (Hons.) (Peradeniya), Ph. D. (Surrey, UK).
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Head - Environmental and Biosystems Engineering

Dr. Nandika Miguntanna
B. Sc. Eng. (Hons.) (Peradeniya), Ph. D. (QUT), AMIESL.
Ext: 212 Room: 220
eMail: nandika.m@saitm.edu.lk
Professor and Senior Academic Advisor  
Department of Environmental and Bio-systems Engineering

Prof. S. L. Ranamukhaarachchi  
B. Sc. Agri. (Hons.) (Peradeniya),  
M. S. & Ph.D. (Agronomy) (PSU, USA).  
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Senior Lecturer in Mechatronics Engineering

Eng. W. G. Chinthaka. W. Kumara  
B. Sc. Eng. (Hons.), M. Eng. (AIT), AMIESL.  
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Senior Lecturer in IT / Mechatronics Engineering

Mr. Tharanga Gunarathne  
B. Sc., M. Sc. (UK).  
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Senior Lecturer in Electronics & Communication Engineering

Dr. Lasith Yasakethu  
B. Sc. Eng. (Hons.) (Peradeniya), Ph. D. (Surrey, UK)  
Ext: 231  Room: 221  
email: lasith@saitm.edu.lk
Senior Lecturer in Bio-systems Engineering

Dr. Deepika Priyadharshanie
B. Sc. (SUSL), M. Sc. (Peradeniya), Ph. D. (AIT).
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e-mail: deepika@saitm.edu.lk

Lecturer in Civil and Infrastructure Engineering

Dr. Hasitha Hidallana Gamage
B. Sc. Eng. (Hons.) (Moratuwa), Ph. D. (QUT).
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Visiting Faculty

Visiting Academic Consultant
Department of Civil and Infrastructure Engineering

Prof. K. G. H. C. N. Seneviratne
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Visiting Academic Consultant
Department of Civil and Infrastructure Engineering

Dr. K.S. Wanniarachchi
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Ext: 212  Room: 212
Research Assistant
Dept. of Mechatronics Engineering

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B. Sc. Eng. (Hons.) (Moratuwa).
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Research Assistant / Coordinator
Dept. of Mechatronics Engineering

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Research Assistant
Dept. of Mechatronics Engineering

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Research Assistant
Dept. of Mechatronics Engineering

Ms. Anuradhi Welhenge
B.Sc. Eng. (Hons) (AIT), MBiomedE (UNSW)
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3.1.2 Visiting Faculties

Prof. Nimal Ekanayake  
Emeritus professor  
Dept of E&E Eng, University of Peradeniya  
B.Sc. University of Ceylon, M.Sc. (UK), PhD (Canada)  

Prof. Janaka Ekanayake  
Senior Lecturer, Dept of E&E Eng, University of Peradeniya  
B.Sc. Eng (Peradeniya), Ph.D. (UK)  

Prof. (Mrs.) Indra Dayawansa  
Professor, Dept of Elec & Tele Eng, University of Moratuwa  
B.Sc. (Cey), Dip EE (IEEE, London), M.Sc. (Wales), Ph.D. (Wales), FIEE, FIP(SL), MIEEE  

Prof. K. A. S. Susantha  
Senior Lecturer, Dept of Eng Mathematics, University of Peradeniya  
B.Sc. Eng (Peradeniya), MEng (AIT), PhD (Japan)  

Dr. Kushan Kalmith Wijesundara  
Senior Lecturer, Dept Civil Eng, University of Peradeniya  
BSc. Eng(Hons), MSc (Pavia, Italy), PhD (Pavia, Italy)  

Dr. M. Gamage  
Senior Lecturer, University of Moratuwa  
BSc. Eng(Hons) MEng(UEC) PhD(UEC)  

Ms. C. P. N. Attygalle  
Senior Lecturer, University of Moratuwa  
BSc. MSc. (Applied Statistics)  

Dr. Janaka Wijekulasooriya  
Senior Lecturer, Dept of E&E Eng, University of Peradeniya  
BScEng (Peradeniya), PhD (Northumbria, UK)  

Dr. Asela K. Kulathunga  
Senior Lecturer, Dept of Prod Eng, University of Peradeniya  
BSc. Eng. (Peradeniya), PhD (Aus)  

Ms. Ganga Rasanjalee Abeywickrama  
Senior Lecturer, British College of Applied Studies  
BSc. Molecular Biology (Colombo), MSc. Applied Genetics (Bangalore)  

Dr. Ashoka Gamage  
Senior Lecturer, University of Peradeniya  
BSc. (Peradeniya), MSc (Peradeniya), PhD (Peradeniya)  

Mr. P. Dias  
Senior Lecturer, University of Sri Jayewardenepura  
B.Sc. Special(Math.) (USJP), PG. Dip. (Stat.) (SL), M.Sc. (Stat.) (Aus.)  

Dr. Dinithi C. Peiris  
Senior Lecturer, University of Sri Jayewardenepura  
BSc. (Colombo), PhD (UK)  

Dr. P. N. Dasanayake  
Senior Lecturer, University of Sri Jayewardenepura  
BSc. (Jayawardenepura), PhD (USA)  

Dr. P. K. D. M. C. Karunarathne  
Senior Lecturer, University of Sri Jayewardenepura  
BSc. (Jayawardenepura), PhD (USA)  

Dr. S. D. M. Chinthaka  
Senior Lecturer, University of Sri Jayewardenepura  
BSc. (Jayawardenepura), PhD (USA)  

Dr. Ruwan Ranaweera  
Senior Lecturer, Dept of E&E Eng, University of Peradeniya  
BSc. Eng (Peradeniya), MSBME (USA), PhD (USA)  

Mr. T. I. Alles  
Senior Lecturer, University of Moratuwa  
Specialist English Trained  

Mr. Susantha Hewa  
Senior Lecturer, University of Moratuwa  
B.A.(English Special), M.A.(Linguistics)  

Mr. Eranda Jayathunga  
Senior Lecturer, University of Ruhuna  
BSc.(Hons) (Peradeniya), M.Eng. (ICT) Thailand  

Mr. Varuna Priyanka  
Senior Lecturer, University of Ruhuna  
BSc. Eng (Hons) (Ruhuna), M.Phil (Ruhuna)
3.1.3 Non Academic Staff

Assistant Faculty Coordinator

Mr. Yasith Nilanka Perera
Diploma in Computer Studies, Following CIMA
Room: 201

Mr. Syamal Thilakerathne
B.Sc. (Hons)
Room: 201

Lab Technician

Mr. Mahesh Wickramasinghe
Room: G06

Lab Assistant

Mr. Ravin Samanpriya
Room: G06
3.1.4 Administrative Staff

Director – Academic & Administration

Ms. Himali Jayathileke
B.Sc. (Special) Finance (Sri J.), CIMA passed finalist

Registrar

Mrs. W. H. R. Hussain
BA (Special) in Economics (Sri J.),
PG Dip. in Economic Development (Col.), MPA (Sri J.)
email: info@saitm.edu.lk

Bursar

Mr. A. P. Galhena
B.Sc. (Sri J.), Chartered Finalist
email: galhena.p@saitm.edu.lk

Assistant Registrar

Mrs. Avanthi Malalage
B.Sc. (Hons) in Computing with Information Systems

Librarian

Mrs. Sulani Vinodani
BA (Special), MSSC in Library Science & Information Science (Kelaniya)

IT Administrator

Ms. Priyangika Gamage
MBCS (Professional Member, The Chartered Institute for IT-BCS)
4 Degree Programs

The degree programs are offered as a semester-based course unit system. A semester consists of 14 weeks of lectures. In addition, there will be one week each assigned for mid- and end-semester examinations, and one week given as study leave before the end-semester examination.

The SAITM Engineering Faculty currently offers two four-year bachelor degrees, namely

- B.Sc. Eng. in Civil Engineering
- B.Sc. Eng. in Mechatronics Engineering

4.1 Entry Requirements

The entry qualifications for the degree programs in the Faculty of Engineering, as complied with the UGC minimum requirements, include three (3) passes at the GCE Advanced Level Examination conducted by the Ministry of Higher Education in Sri Lanka or an equivalent foreign examination in the mathematics stream (3 subjects including Mathematics and Physics).

4.2 Course Offering

Subjects are offered as course modules. The prerequisite for each subject is embedded in each course module. Each course module is identified by a code, a title, and the number credits including the type of activities in it. The course codes differ between Department of Civil Engineering and Department of Mechatronics Engineering, as shown in the foregoing page:
Prerequisite: A course module of which the knowledge is required to follow an advanced course module(s). The course module(s) identified as prerequisite(s) for a given advance course should be successfully completed before taking the advance course module.

Credit: The abstract value assigned to a course unit on the basis of the duration of conduct in terms of hours per week is called a credit. One credit is equivalent to 14 hours of lectures or 28 hours of laboratory work/tutorials per semester. Course units of one credit, two credits and three credits are available. The contents of a three credit course unit, for example, are approximately three times that of a course unit of one credit per week.
4.3 Student Registration for Semesters and Courses

Students are required to register for courses in each semester. Registration for courses will begin a week prior to the commencement of the semester.

For each semester, students must register for a minimum of 15 course credits. The maximum number of credits a student can register for a semester is 25. Students may choose courses with the approval of the academic advisor.

Once the semester begins, students may choose to drop any course module(s) they have registered for, and also to add any new course module(s) from the course list offered in the current semester with the approval of the Academic Advisor. The add/drop period ends by the end of the second week from the commencement of the semester.

However, after the add/drop period has ended, no student will be allowed to add or drop any course module in that semester. In the event of adding and dropping course modules, the attendance factor will not be counted during the first two weeks for course modules that are added or/and dropped.
5 Facilities Offered by the Faculty

5.1 Working Hours and Access to Facilities
The academic activities are conducted from 8.00 a.m. to 5.00 p.m. on weekdays. But there are instances where working hours go beyond 5.00 p.m. Sometimes the students are requested to attend guest lectures and additional classes during weekends.

5.1.1 SAITM Library

SAITM library that serves the needs of the students is located on the 3rd floor of the main building with on-site access to the library system and borrowing privileges. On-site access to computer workstations designated as Public Access Workstations for the use of the Library catalogue and electronic resources (some restrictions may apply) and basic reference services are also available.

The library contains at present approximately 4000 volumes (books in Engineering, Medicine, Management, IT, Media, Languages, journals, etc.) with a seating capacity of 200.

Normal library open hours are as follows:
Lending and Return: 8.30 a.m. to 5.30 p.m. (Monday–Friday)
8.30 a.m. to 12.30 p.m. (Saturday)
Reference Books: Lending after 2.30 p.m. (Monday–Saturday)
Return: 10:30 am (Monday–Saturday)
5.2 Engineering Laboratories at SAITM

5.2.1 Civil and Infrastructure Engineering Laboratory

All required practical and demonstration sessions are carried out at the Department of Civil and Infrastructure Engineering for the following modules:

- Structural Analysis I
- Strength of Materials
- Fluid Mechanics
- Soil Mechanics
- Site Surveying
5.2.2 Mechatronics Engineering Laboratory

The Mechatronics Engineering Laboratory provides state of the art facilities and experimental setups to learn and enjoy the field of Mechatronics. All relevant practical, demonstration sessions for the modules of:
- Mechanics Engineering
- Thermodynamics
- Electromechanical Machine Design
- Mechanical Vibration
- Mechatronics Engineering Design

are carried out at this laboratory.
5.2.3 **Electronics Engineering Laboratory**

This facility supports introductory courses in electrical and electronics circuits with modern industry-standard equipment and setups. The laboratory is also equipped with more advanced signal processing, electromagnetism, and instrumentation systems to carry out practical and demonstrations for the course modules.

This facility supports introductory courses in electrical and electronics circuits with modern industry-standard equipment and setups. The lab is also equipped with more advanced signal processing, electromagnetism, instrumentation systems to carry out practical and demonstrations for the modules of:

- Electromagnetism and optics I
- Electrical circuits
- Digital Logic Circuit Design
- Signals and Systems
- Electronics Circuits
- Advanced Electronics
- Electrical Measurements and Instrumentation
- Digital Electronics
- Industrial Electronics
- Digital Signal Processing
- Power Electronics Applications and Design
- Electrical Machines and Drive Systems
5.2.4 Engineering Workshop

Academic activities of the Faculty of Engineering in the workshop are coordinated by the Department of Mechatronics Engineering. Exposure to workshop practice is provided through the conventional facilities of the Main Workshop. It consists of fitting, machining, metal and woodwork sections. The main function of the workshop is to provide hands-on training to develop prototypes for the student project activities and exposure to the modern hi-tech facilities of the Computer Aided Design/Computer Aided Manufacturing/Computer Aided Engineering (CAD/CAM/CAE). About 100 students can be accommodated per session in the workshop.

The workshop is equipped to provide practical and demonstration sessions required for:
- Workshop Technology
- Introduction to Manufacturing Processes
- Mechanics of Machinery
- Advanced Manufacturing Processes
5.2.5 **Computer Laboratories**
The faculty provides highly sophisticated learning environment to students by providing a modern laboratory with 30 iMac computers with internet facility and two, state of the art IT laboratories with 72 high-end computers backed by a fiber optic backbone, catering to the modern video conferencing needs together with comfortable seating arrangements.

5.2.6 **Engineering Drawing Hall**
Fully comprehensive hands on practical sessions are carried out for the engineering drawing module at drawing laboratories and Computer Aided Drawing using AutoCAD at computer laboratories.

5.2.7 **Lecture Halls/Exam Halls**
The faculty has fully equipped air-conditioned lecture halls and an Auditorium complete with audiovisual facilities, and each of which can accommodate approximately 60 students.
5.2.8 **Common Room / Recreation Area**
A recreation area with access to free Wi-Fi is on the ground floor which has the capacity to accommodate about 150 students at any given time.

5.2.9 **Reading Area**
An area of 10,000 Sq. ft. is allocated for the students to use as a reading area on the 1st and 3rd floors (library floor).

5.2.10 **Sports Complex**
An area of 10,000 Sq. ft. at the lower ground floor is allocated for indoor recreational activities and a gymnasium on the 4th floor for games. A swimming pool, in-door gymnasium and a sports ground to promote sports will also be available in due course.
5.2.11 Cafeteria

The main cafeteria is located on the ground floor, and it is easily accessible from the academic and administration wings with the capacity to accommodate approximately 500 students at one time. Wholesome meals are provided throughout the day for staff and students.

5.2.12 Parking Facilities

Three separate car parks are available for students, academic staff and visitors.
5.2.13 **Medical Centre**
A well-equipped medical center is located on the first floor for all types of emergency care coverage. If necessary, student patients can be transferred to Dr. Neville Fernando Teaching Hospital (NFTH).

5.2.14 **Student Counseling Services**
Student Counselors from the Department of Psychology, Faculty of Medicine are available to provide counseling services for the students of the Faculty of Engineering. They offer services to assist students on various situations such as academic problems, personal/interpersonal and study problems and relationships, appeal, withdrawal, assignments, marital problems, social problems, family problems and all other issues that may hinder their academic performance.

5.2.15 **Security**
The purpose of the Security Force is to ensure that the campus provides a safe environment to study. Each floor of the main building is manned by a security officer around the clock with security offices at all entrance/exit points of the campus premises.
5.2.16 **ATM Facilities**
The Bank of Ceylon ATM facilities are available for students and staff at the entrance of the SAITM premises.

5.2.17 **Accommodation**
Lodging is available for students on request at F and G Housing complex, Talahena. The Campus provides board and lodging for students at this Housing Complex with all facilities including a swimming pool and a sports complex.

5.2.18 **English Support Program**
English language support is offered by SAITM for all students admitted to degree program in order to improve the proficiency of English language.

5.2.19 **Academic Guidance**
The provision of academic guidance and counseling services is an integral part of the student support system and welfare in SAITM.
In addition to the high level of academic guidance typically provided in the classroom by the lecturers, an Academic Advisor is appointed for each student at the time of registering at SAITM. The Academic Advisor plays a central role in guiding the student’s academic program, assisting in course selection, and providing guidance and counseling in all academic matters. Students are required to meet with their Academic Advisor to discuss their academic progress and to resolve and clarify any academic related issues at any time. Furthermore, students are required to obtain Academic Advisor’s recommendations and signature for all the academic affairs whenever necessary.

5.2.20 Printing and Electronic Media Services

The institute provides professional printing, photocopying and scanning services to students at a reasonable cost depending on the quality of the service needed.

5.2.21 Access to Free Internet (Wi-Fi zone)

The institute provides full IT services and facilities such as email, access to the Internet, and the student information system. Students can access the Internet and intranet wirelessly anywhere on campus.
6 Curriculum and Degree Programs

6.1 Curriculum

Curriculum with the relevant semester details are as follows.

6.2 Course Description

6.2.1 B.Sc. in Engineering in Mechatronics Engineering

<table>
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<tr>
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### 6.2.2 B.Sc. in Engineering in Civil and Infrastructure Engineering

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Faculty of Engineering - SAITM
### Term B: Non GPA Modules

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### Term B Electives (Select One Module)

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<td>Principles of Innovation &amp; Entrepreneurship *</td>
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<td>IS B215</td>
<td>Organizational Behavior &amp; Management *</td>
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<td>IS B216</td>
<td>Consumer &amp; Industrial Marketing *</td>
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### Semester 6

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<td>Design of Timber, Masonry &amp; Steel Structures</td>
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<td>CE 6321</td>
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<td>CE 6322</td>
<td>Computer Analysis of structures</td>
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<td>CE 6323</td>
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<td>CE 7332</td>
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<td>CE 7333</td>
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### Term D Electives (Select Two Modules)

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<td>IS D221</td>
<td>Meditation &amp; Yoga *</td>
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<td>CE 8338</td>
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7 Administrative Policies

7.1 Examination By-Laws

7.1.1 Eligibility for Examinations

a) Before the end-semester examination for each course module, student’s eligibility to sit for the exam will be assessed and displayed in the faculty notice board. Eligibility is based on attendance for lectures and other academic sessions specific to a particular course module.

b) Students must maintain a minimum of 80% attendance to be eligible to sit for the end semester examination of the course module.

c) The marks obtained for a given course module will be multiplied by an attendance factor to obtain the final mark for that course module, and the attendance factor for a given module will be calculated based on the number of academic sessions conducted for that module in a semester.

d) The attendance factor will be counted for the academic sessions of lectures and tutorials.

e) If a student obtains an attendance factor of less than 0.6, he/she will receive a grade of “F”, which will appear in the student records.

7.1.2 Regulations Governing the Conduct of Examinations

a) Candidate must be present at their respective examination hall at least 15 minutes before the commencement of an examination and should enter the examination hall at the request of the supervisor.

b) Candidates must occupy the seats carrying their respective Index numbers or as allocated by the supervisor.

c) Candidates shall take only pens, pencils, erasers, foot-rulers, mathematical instruments, transparent water bottles and other materials such as essential articles or materials, if authorized by the supervisor into the examination hall.

d) No candidate shall be admitted to the examination hall after 30 minutes have elapsed from the commencement of an examination, and no candidate will be permitted to leave the examination hall before 30 minutes have elapsed from the commencement of the exam. Furthermore, candidates are not permitted to leave the examination hall during the last 30 minutes of the examination.

e) Each candidate should bring his/her Admission Card, and Student's Identity Card issued by SAITM to the examination hall. If a candidate has lost the Identity Card or Admission Card during the examination period, he/she should immediately report
to the Registrar/Senior Assistant Registrar and obtain a duplicate of such documents.

f) If requested to do so by the supervisor, a candidate must produce any document, written material or item of stationery in his/her possession or custody.

g) Candidates are prohibited from asking for or exchanging anything with any other candidate, copying or attempting to copy anything written by any other candidate or communicating with any other candidate. A candidate shall not permit or assist any other candidate to copy.

h) A candidate must use only the answer booklets and sheets of paper provided (date stamped) for that day for the purpose of the examination.

i) Stationery (writing paper, graph paper, drawing paper, ledger and graph paper, etc.) shall be issued to candidate as required. A candidate shall not tear, fold, crumple, scratch or in any other way damage any item of stationery issued to him/her. A candidate shall use only the stationery issued to him/her by the supervisor and invigilator, and shall leave on his/her desk his/her answer scripts, mathematical tables and any other returnable material issued to him/her before he/she leaves the examination hall. A candidate shall not take out of the examination hall any paper, answer book or any other material issued to him/her by the supervisor or other authorized officer.

j) Before commencing to answer an examination paper a candidate shall write his/her index number with the name of the examination in the appropriate space in the answer book or sheet and he/she shall write his/her index number on every sheet or paper used by him/her. No candidate shall write his/her name or make any identification mark in any answer script. Any candidate who writes an index number and code other than his/her own on an answer script shall be guilty of an examination offence.

k) All papers used for rough work as well as writing paper should be attached to the answer script, but all material, which does not form a part of the answer script, should be cancelled by drawing lines across such material.

l) Candidates shall conduct themselves in the examination hall in such a manner as not to cause any obstruction or harassment to the supervisor, the Invigilators and other candidates, and shall observe silence both inside the examination hall and outside.

m) A candidate shall not permit another person to impersonate him/her at any examination, and shall not appear on behalf of any other person at any examination.

n) The supervisor or an invigilator may obtain from a candidate a written statement in respect of any matter that occurs in the examination hall. A candidate shall not decline to make such statement or to place his/her signature on such statement.
o) During the course of answering a paper, no candidate shall be permitted to leave the examination hall temporarily. In case of an emergency the supervisor may grant permission to do so under the supervisor’s surveillance.

p) A candidate shall remain seated in his/her seat till the answer scripts are collected and shall hand over his/her answer script only to the Supervisor or an Invigilator.

q) A candidate shall not attempt to make improper use of a document, drawing or instrument.

r) Students are prohibited from carrying cellular phones or any other electronic devices used for communication during the course of written, oral or practical examinations.

s) It shall be the responsibility of every candidate to refrain from any act that may lead to any suspicion that he/she has committed any examination offence or is likely to commit such offence.

7.1.3 **Absence from the Examinations**

Every candidate who is eligible for an examination shall be deemed to have sat the examination unless;

a) He/she submits a valid reason such as illness, death of immediate family members (i.e. a parent, sibling, spouse or child) or tragic event to withdraw from the examination. Documentary evidence in support of these claims has to be submitted.

b) In a case of illness, a medical certificate in support of his/her absence, should be submitted prior to the commencement of the examination or he/she shall inform the Faculty Coordinating Office in writing of his/her inability to attend the examination and submit the medical certificate within three days after the commencement of the examination.

c) A student who withdraws or absents himself/herself from any examination with a valid reason as in section (a) shall be eligible for a make-up or subsequent examination. In such an instance, no fee is charged to sit for the make-up examination. Until the student completes the above module, a Grade ‘I’ will appear in the student records and the GPA will be calculated once the module is completed. However, the student who has “I” grade should complete the course within one year period, and if fails to complete within one year, an “F” grade will be given.

d) A student who withdraws or absents himself/herself from any examination without a valid reason [stipulated in section (a)] will be given zero marks for that attempt, and an “F” grade will appear in his/her academic transcript.
e) A student can obtain a grade for a course module by sitting for the end semester examination even when he/she is absent at the mid semester examination/evaluation.

7.1.4 Medical Certificates

The procedure to be followed when a student is absent for an Examination on Medical Grounds;

a) In the event of a sickness, the student or parent/guardian shall formally inform the Faculty Coordinating Office prior to the commencement of the exam his/her (student’s) inability to take part in the examination stating the illness. The student can convey to the Faculty Coordinating Office by way of SMS, e-mail or telegraph, or a letter, and is required to retain evidence for giving such notification. This must be done even if the student is suffering from an illness already notified to the faculty.

b) If the student is planning to claim any benefit or concession for being absent from the examination, a medical certificate must be submitted within three (3) days from the examination to the Faculty Coordinating Office irrespective of he/she continues to suffer from that illness.

c) The medical certificate so submitted must be from a registered Medical Practitioner/ Dental Surgeon from whom the student has taken treatments and who is duly registered with the Sri Lanka Medical Council at the time of issuing such medical certificate.

d) The medical certificate so submitted must include the diagnosis and his/her inability/unfitness to sit the examination on that particular day (date of the examination must be mentioned).

e) The Faculty Coordinator shall forward the medical certificate submitted by the student or his/her parents to the Registrar, SAITM stating the cause of illness.

f) The Registrar shall arrange a Medical Board consisting of three members to scrutinize the medical certificate and the board shall consist of specialists from the relevant specialty.

g) The Medical Board may summon the student, if deemed necessary, for clarification of any matter relevant to the medical certificate and/or the illness or any other medical record. In the event the student declines to be present when so summoned or fails to produce medical records, or fails to divulge information to the board, this may adversely affect the student’s claims.

h) The Medical Board shall submit its decision to the Registrar in a confidential manner stating that;
i. The Medical Certificate submitted by the student can be accepted for him/her being absent for the examination held on the specified date.

ii. The Medical Certificate submitted by the student cannot be accepted for him/her being absent for the examination held on the specified date.

i) If the medical certificate is accepted by the Medical Board, appointed by the institute, the student will be entitled for the following benefits/ concessions:

   i. To sit the make-up examination at a time specified by the faculty.
   
   ii. The repeat attempt will be considered as his/her first attempt

j) If the medical certificate is not accepted the student can sit the repeat examination which will be considered as his/her second attempt.

7.1.5 Examination offenses

The following are considered as examination offenses;

a) Possession of any notes, electronic devices and documents, and any other material(s) while in the examination venue, other than those issued at the venue for purposes of the exam.

b) Copying.

c) Cheating.

b) Removing items of stationery and other material belonging to SAITM from the examination hall.

e) Misconduct.

f) Impersonation.

g) Improper access to the contents of a question paper or to the subject matter of a test, or obtaining aid and assistance to commit an examination offense.

h) Exercising improper influence on officers engaged in the conduct of an examination.

i) Any other act considered as an examination offence by SAITM.

Such offences need to be reported in writing to the Registrar who will institute a Board of Inquiry. The Board of Inquiry will recommend the necessary penalties for consideration and approval of the Senate.
7.1.6 Penalties for Examination Offenses

a) Possession of any unauthorized materials: Being in possession of any unauthorized material such as documents results in the cancellation of candidature for any period not exceeding two academic years.

b) Copying: Cancellation of candidature and debarring the candidate from sitting for any examination conducted by SAITM for any period not exceeding three years and the imposition of other penalties as recommended by the Board of Inquiry.

c) Cheating: Cancellation of candidature and debarring the candidate from sitting for any examination conducted by SAITM for a period of time, decided by the board of Inquiry.

d) Removing out of the examination hall items of stationery and other material belonging to SAITM: Cancellation of candidature and debarring the candidate from sitting for any examination conducted by SAITM for a period of time determined by the Board of Inquiry.

e) Improper conduct: Cancellation of candidature and debarring the candidate from sitting for any examination conducted by SAITM for a period not exceeding five years and other penalties at the discretion of the Board of Inquiry.

f) Impersonation: Cancellation of candidature and debarring the candidate from sitting for any examination conducted by SAITM for a period not exceeding five years and other penalties at the discretion of the Board of Inquiry.

g) Exercising improper influence on examiners or officers engaged in the conduct of an examination: Any penalty imposed at the discretion of the board of Inquiry.

h) Committing an examination offense for the second time: Deregistration.

7.1.7 Review of Answer Scripts

Students are allowed to appeal through the Faculty Coordinating Office with the consent of the Academic Advisor. Upon request by the student, Dean of the Faculty will appoint an examination panel to review the answer script. The panel will then evaluate the answer script, and the decision of the panel will be conveyed to the student. The decision of the panel is final for any amendment of marks.

However, under no circumstances a given mark will be altered by the Faculty Board at the results review stage.

7.1.8 Evaluation of Performance

The performance of each course will be evaluated by giving different weights to the following course requirements – Mid Semester Examination, Assignments, Laboratory Work and Final Examination. All requirements, except the Final Examination, carry a combined weight of not
less than 30% and not more than 60% of the total marks, except in internship, research projects, residential workshops, field work, and other similar requirements.

The course requirement may be based on a specified combination including laboratory work, tutorials, quizzes, presentations, mid-semester examinations, term papers and assignments. The mid-semester examinations are usually held on the 8th week of the semester.

The weight of each of the above components used in the determination of the final grade for each course module should be clearly conveyed in writing to the students by the lecturer during the first week of the commencement of classes/lectures along with the outline of the course module.

The Faculty Board will meet at the end of each semester to decide on the performance and the academic standing of each student registered for that semester.

7.1.9 Grading System
Letter grades based on the grade point system and corresponding description, as illustrated in the table below, will be used to assess the performance of each student in each course.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
<th>Value</th>
<th>Grade Definition</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-100</td>
<td>A+</td>
<td>4.00</td>
<td>Excellent</td>
<td>Strong evidence of original thinking; good organization, capacity to analyze and synthesize; superior grasp of subject matter with sound critical evaluation; evidence of extensive knowledge base.</td>
</tr>
<tr>
<td>75-84</td>
<td>A</td>
<td>4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70-74</td>
<td>A-</td>
<td>3.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65-69</td>
<td>B+</td>
<td>3.30</td>
<td>Good</td>
<td>Grasp the subject matter, some evidence of critical capacity and analytical ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.</td>
</tr>
<tr>
<td>60-64</td>
<td>B</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55-59</td>
<td>B-</td>
<td>2.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50-54</td>
<td>C+</td>
<td>2.30</td>
<td>Adequate</td>
<td>Profiting from the academic experience; understanding the subject matter; ability to develop solutions to simple problems</td>
</tr>
<tr>
<td>45-49</td>
<td>C</td>
<td>2.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Some evidence of familiarity with the subject matter as well as critical and analytical skills have been developed.

Little evidence of even superficial understanding of subject matter; weakness in critical analytical skills, with limited or irrelevant use of literature.

Grade not earned.

Note: Grade D or above is required to earn credit for a course.

7.1.10 Receiving an Incomplete [“I”] Grade
If a student was unable to complete a course due to acceptable reasons, he/she will receive an “I” grade. In this regard, the student should upgrade “I” grade at least to a grade “D” within one year, and failure to do so will lead the Dean to declare that it is changed to a grade “F”. If the grade “I” was given because the student was unable to sit the final examination, he/she may be allowed to upgrade it by sitting the examination at a later stage with the approval of the relevant instructor in consultation with the Academic Advisor.

7.1.11 Failing Course Modules at Examinations
a) The students must pass all modules to be eligible for graduation, and should not have ‘F’ grade for any course module.

b) If a student has received an “F” grade for a course module at the end semester examination, he/she will be required to retake the full course module, and a course fee is charged on the basis of Rs. 5,000 per course credit.

c) A student who obtained an “F” grade must upgrade at least to a grade “D” to be eligible for graduation.

d) A student who obtained an “F” grade will be entitled for a maximum of “C” grade at the repeat examination.

e) The students who fail to upgrade the grade of ‘F’ in three attempts will face automatic dismissal.
7.1.12 Graduation Requirements

The students are expected to successfully complete a minimum number of credits from courses offered as stipulated in the program of study to be eligible for graduation. The total number of credits required to complete differs among different programs, and is shown below:

| Degree and Specialization                  | Total Number of Credits required+/
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Sc. Engineering in Civil Engineering</td>
<td>161</td>
</tr>
<tr>
<td>B.Sc. Engineering in Mechatronics</td>
<td>150</td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
</tr>
</tbody>
</table>

+/

Total number of credits includes both compulsory and elective course modules;

a) For graduation, a student has to obtain a minimum CGPA of 2.00.

b) However, a student who satisfies the CGPA requirement is allowed to earn credits in a limited number of course modules with grades of “C-“, “D+”, or “D” provided that the grade in any of the course module is not below a “D” and the cumulative credit deficit (CCD) does not exceed 12. This is applicable for course modules receiving grades C-, D+ and D.

c) The CCD is calculated using the following formula:

\[ \text{CCD} = \sum c_i d_i \]

Where, \( c_i \) is the credit of the \( i \)-th course and \( d_i \) is the deficit weighting defined as 1 for a D, 2/3 for D+ and ½ for a C-.

7.1.13 Grade Point Average (Semester)

The calculation of the Semester Grade Point Average (GPA) will be based on the summation of grade points earned for all courses registered for one semester, weighted according to number of credits (see the formula below). The Semester Grade Point Average is rounded to the nearest second decimal place.

\[ \text{GPA} = \frac{\sum (n_i \times g_i)}{\sum n_i} \]

Where, \( n \) is the number of credits for the \( i \)-th course in a given semester and \( g_i \) is the grade points earned for that course.
7.1.14 **Grade Point Average (Cumulative)**

The Cumulative Grade Point Average (CGPA) describes a student’s current standing in terms of all courses registered up to given point of time, weighted according to the grades assigned to each course and the academic year of the course.

\[
\text{CGPA} = \frac{\sum (n_i \times g_i)}{\sum n_i},
\]

Where, \( n \) is the number of credits for the \( i \)-th course in a given semester and \( g_i \) is the grade points earned for that course.

7.1.15 **CGPA and Classes awarded**

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Classes/Honors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.70 or above</td>
<td>First Class (Honors)</td>
</tr>
<tr>
<td>3.30 - &lt; 3.70</td>
<td>Second Class Honors (Upper Division)</td>
</tr>
<tr>
<td>3.00 - &lt; 3.30</td>
<td>Second Class Honors (Lower Division)</td>
</tr>
<tr>
<td>2.00 - &lt; 3.00</td>
<td>Pass</td>
</tr>
</tbody>
</table>

7.1.16 **Student Awards – Dean’s List**

Dean’s list recognizes the outstanding academic achievement of students. Being placed in this list carries no monetary benefits. It is purely of educational and societal values of being recognized for academic excellence.

Students who obtain a Semester Grade Point Average of 3.70 or greater in any academic semester (except during inter-semester) will be recommended by the Faculty Board to be included in the Dean’s List. In addition to the Semester GPA, participation for extracurricular activities, and obtaining of university colors will also be given due consideration as a criterion for inclusion in the Dean's List.
7.2 Code of Conduct

Codes of Practice for Students
The following procedures and mechanisms are there in practice to maintain the quality, transparency and reliability of the academic rules and regulations of the faculty.

7.2.1 Attendance/Residency Requirement
For all the course modules, students must maintain 80% attendance during lectures, practical and field work. Based on the student’s attendance, an attendance factor is calculated for each student, and his/her end semester exam mark will be multiplied by the attendance factor. Students are not allowed to sit for the end semester examination of a particular course module, if the attendance is less than 60%.

7.2.2 Leave of Absence
a) In a semester, a student may ask leave of absence for a maximum period of two weeks.
b) Any student who, for reasons other than sickness, is planning to be absent from his/her academic commitments during the semester or be travelling outside Sri Lanka for vacation must seek prior approval from his/her Academic Advisor (use the Request for Leave of Absence form available at the Faculty Coordinating Office).
c) Students absent from lectures without formal approval of leave will be suspended, and may subsequently face automatic dismissal.
d) Occasionally, sickness and other circumstances make it necessary for a student to take extended or a full semester leave. A student may be allowed to submit a leave of absence from the course and programme for a maximum duration of twelve months by submitting an application through the student’s Academic Advisor to the Dean for approval. A student who has been granted an extended leave must write to the Registry at least one month before the agreed date of return to the programme confirming his/her intention to continue studies.
7.2.3 **Study Limit**
The normal period of study for the Bachelor degree is eight semesters.

A student will not qualify for the award of the Bachelor’s Degree, if graduation requirement given in the Section 7.1.12 are not met within eight academic years from the date of first registration, except when the student is given extension upon the recommendation of the Faculty Board. The normal period of study for the Bachelor degree is eight semesters.

7.2.4 **Plagiarism**
Students are expected to maintain academic integrity in all of their work. Submitting plagiarized work at any time is strictly forbidden. When plagiarism is detected, penalties applicable may range from zero (0) for the assignment or examination in question up to a fail (F) grade for the entire module.

7.2.5 **Appeal**

a) **Appeal against assessments**
A student has the right to access his/her marked examination script. The review of examination papers is an academic right of the student. If not satisfied with his/her grade, a student may, after the meeting of the faculty board, appeal to the relevant lecturer for re-assessment. Such an appeal must be lodged before the second week of the next semester at the very latest. The level of review to be carried out is at the discretion of the Faculty Board.

A student’s appeal for the revision of his/her coursework assessment should be made with the instructor. If necessary, a student, after seeking help from the Advisor, may make an appeal through the Faculty Coordinating Office to the Dean. If a student believes that his/her academic performance has been adversely affected by illness or some other external factor, he/she should consult the Academic Advisor as soon as possible and before the next meeting of the Faculty Board.

b) **Appeal against dismissal**
An appeal against a dismissal is made by the student through his/her Academic Advisor, the Head of Department, and Dean to the Vice Chancellor no later than one week before the start of the following semester.

Once a student is allowed to continue with his/her academic work under certain conditions set up by the Senate, he/she will face automatically dismissal without any further discussions in the Academic Senate and without any privilege to re-appeal, if he/she fails to fulfill such conditions.
7.2.6 **Deregistration**

A student who wishes to deregister should normally do so in writing to the Faculty Coordinating Office who then reports to the Dean. On Dean’s approval, the registry will seek senate ratification upon which the student is deregistered. A student’s resignation shall be effective from the time the Dean approves the resignation request and passes the case to the Registry. The Registry records the action on the transcript and informs the administrative units within the Institute of the resignation of the student.

If a student who has deregistered subsequently changes his/her mind to return, he/she should re-apply for admission.

A student cannot nullify the act of resignation once it has become effective. The transcript of a student who has resigned shall have the date of resignation and grades of all courses completed at the time of resignation entered on it:

7.2.7 **Conduct towards Lecturers and General Conduct**

Students should be courteous to lecturers at all times. A student who used any discourteous or derogatory vocabulary against a lecturer or displayed violent behavior will warrant immediate suspension from attending for lectures or practical/tutorials for a period of 7 working days upon receiving of a complaint. Within that period the student will be notified in writing to appear before a disciplinary committee comprising Dean who shall command the inquiry, and the registrar for a hearing and to determine the course of action which may range from extension of suspended period or dismissal from studentship. The time spent during suspension will be considered as absent days and will reflect on the final grading of the semester modules.

However exoneration or relief may be possible, if found not guilty. The decisions of the disciplinary committee will be final and binding. The decisions of the disciplinary committee will be notified to the student and his/her parents in writing. Offenses such as damage to campus property, sexual harassment, and physical assault of fellow students, academic or non-academic staff members will also carry the similar disciplinary action.

7.2.8 **Dress Code**

Male students must wear long trousers and short- or long- sleeved/rolled up office wear shirts with covered shoes, while female students wear jeans/pants, blouses and other dresses (acceptably covered) on days when lectures are conducted. No T-Shirts, Revealing dresses, Sandals, Thongs/Slippers will be permitted at any time within a lecture hall or laboratory. Multi-colored or Tinted hair or fancy haircuts will not be permitted at any time. If a physical disability compels a student to wear otherwise, he/she will be required to obtain
written permission from the Dean of the Faculty or in his absence from a Senior Lecturer of Faculty of Engineering.

### 7.2.9 Assignments/ Lab Reports

All assignments and course works/lab reports should be submitted on or before the deadline. Failure to do so and late submissions will result in the student getting no marks (zero) for the assignments. Report formats specified by the relevant department should be strictly followed when submitting assignments and lab reports.

### 7.2.10 Additional Collection of Payments

The following amounts will be annually collected as expenses from all students in the Faculty of Engineering:

a. Rs. 5,000 for Site visits /Guest lectures/Industrial training inspections.

b. Rs. 3,000 for SAITM Research Symposium and SAITM Robotics Challenge.

An additional training fee will be charged from the civil engineering students for their Heavy machinery training at the surveying camp.

Above payments are compulsory and will appear as dues, which will automatically exclude the student from the student services system.

Payment due dates will be notified in advance by the Faculty Coordinating Office.

*The above charges are subject to change.*
8 Faculty Events

8.1 SAITM Research Symposium on Engineering Advancements (RSEA)

Annually held SAITM Research Symposium on Engineering Advancements has been designed to further augment the involvement of SAITM in research and to disseminate the research findings among potential users. The symposium is designed to bring together the university students, researchers, academics and industrialists in an open and interactive forum that recognizes engineering and scientific challenges, practical barriers, theoretical developments and their applications in order to bring a sustainable development.

8.1.1 Main Thematic Areas

1. Structural Engineering and Finite Element Methods
2. Geotechnical and Soil Mechanics
3. Highway Construction and Transportation Engineering
4. Water Resources and Environmental Engineering
5. Town Planning and Urban Management
6. Bio-Systems and Bio-Processing
7. Food Processing and Technology
8. Renewable Energy Consumption and Management
9. Sustainable Construction and Green Buildings
10. Disaster Management and Risk Assessment
11. Communications and Information Engineering
12. Image and Signal Processing
13. Computers and Embedded Systems
14. Electronics and Instrumentation
15. Robotics, Control and Automation
16. Artificial Intelligence
17. Industrial Automation and Process Control
18. Production Planning and Maintenance Engineering
19. Quality Control and Management
20. Power, Energy and High Voltage Engineering
21. Textile and Clothing Technology
8.2 **SAITM Robotics Challenge (SRC)**

In order to encourage students to come forward with innovative engineering solutions, SAITM Faculty of Engineering annually organizes a robotics competition, the SAITM Robotics Challenge (SRC). Started in 2013, as an undergraduate level competition, SAITM Robotics Challenge (SRC’13) drew hundreds of students from both state and non state sector universities.

Since 2014 competition features a robotics challenge for school students as well. With close to a hundred robots, designed and build by students around the country, competing in the event, SRC ‘14 brought Sri Lanka’s youth together in a vibrant event celebrating innovation and technical advancements. SRC ‘15 featured two main challenges, one for school students to build an autonomous navigating robot and the other for undergraduate students emulating a gaming platform for robots, with a ball shooting area and goal. Undergraduate students representing 27 state and non-state sector universities and students from 32 schools around the country participated in the competition.
9 Industry Collaborations

9.1 Industry Consultative Board

The SAITM-Industry Consultative Board (ICB) is set up in order to strengthen the university-industry interaction and the methods of the experienced and knowledge information dissemination. The primary objectives of SAITM ICB are as follows:

- To obtain the industry feedback for future curriculum revisions
- To improve the quality of the internship programs
- To offer short training programs and workshops which industry needs
- To invite industrial experts to the SAITM to share their practical experiences
- To identify the needs of the industry and hence to develop research projects to meet the requirements
- To disseminate the research information with industry partners and to obtain feedback from the industry, in order to further improve the quality of the research at SAITM.

9.2 Guest Lectures and Workshops

Throughout the academic year, the faculty hosts free public lectures and workshops on a variety of topics. Guest speakers are invited by the faculty to present their research as well as new developments as per their specialty, as part of an ongoing lecture series.
The industrial training placement is organized by the departments for the fourth semester students for a period of three months (Phase I), and for the 6th semester students for a period of 3 months (Phase II). Pioneers of the Industry in Sri Lanka are selected for the placement of students.

The evaluation of the industrial training placement is conducted based on the records of the daily diary provided to the students at the commencement of the training programme, the comments of the interim supervision made by the lecturers in the respective departments, and the final report which should be submitted at the end of the training period.
Department of Environmental & Bio-systems Engineering - Industrial Visits / Industrial Training
9.4 **Student Association**
Student association is operated by the students of the faculty, and membership normally consists only of students. The leaders elected will be expected to associate closely with the faculty and organize social events to strengthen the bond among the fellow students.

9.5 **Recreational and Student Activities**
SAITM offers many services, organizations and recreational activities to help students participate in campus life, and become active members of the society. Students are advised to seek a balance between academic and extracurricular activities. Participation in student activities outside of class not only provides a much-needed break from the intense academic rigors, but also helps many students to manage their time better, and can lead to a more rewarding and successful university experience.
SAITM sports and recreation includes Rugby, Cricket, Badminton, Football, Basketball, Table Tennis and Swimming. Students can enjoy a wide variety of athletic pursuits.
9.6 Community Service Projects

Several community service projects are organized by SAITM students annually for those who wish to participate and help the local community and environment.