

# The University of MORATUWA

SRI LANKA



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# GENERAL CATALOGUE

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The External Affairs, Publicity and International Student Promotion Division has taken great care in compiling the information presented in this catalogue while the academic departments with the coordination of deans of the respective faculties provided information pertaining to all undergraduate programmes listed herein. Thus the accuracy of the information pertaining to undergraduate programmes presented in this catalogue is the responsibility of the respective departments of the Faculties of Architecture, Engineering and Information Technology.

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# MESSAGE FROM THE VICE-CHANCELLOR



Today, the University of Moratuwa has gained a reputation as the best technological university in Sri Lanka. It is the most sought after university by students for engineering education and attracts the best students for its unique set of professional courses designed and offered to meet industry needs. It is also the most sought after university by employers for recruitment, as evident by the overall graduate employment ratio of around 95% for all courses at the time of the convocation. The University works very closely with the industry, and has gained industry confidence and a reputation as the university having the closest and strongest industry links of many forms.

Over the years, the University has developed into a prestigious seat for higher education in Sri Lanka and in the South Asian Region with outstanding achievements in several spheres, while contributing significantly towards national economic development. We are proud of our highly qualified academic staff, quality students, high performing alumni and network of collaborators who are the main contributors to the University of Moratuwa reaching such great heights.

While consolidating our position as an institution which produces globally employable graduates, we strive to achieve our vision to be “the most globally recognized knowledge enterprise in South Asia” placing increasing emphasis on research, innovation and entrepreneurship. We strive to achieve this in an environment that provides a rewarding experience for our students, staff and other stakeholders.

This University Catalogue provides an overall overview of the faculties, departments, facilities and academic programmes available at the University of Moratuwa in a nutshell. I kindly request the readers to access the university website for further details.

A handwritten signature in black ink, appearing to read 'Ananda Jayawardane', with a long horizontal flourish extending to the right.

Professor Ananda Jayawardane  
Vice-Chancellor

# MESSAGE FROM THE DEPUTY VICE-CHANCELLOR



Undoubtedly, University of Moratuwa has emerged as the best technical university in Sri Lanka. This fact is evident by the high expectation of the students to secure a seat of higher learning at both undergraduate and postgraduate levels and also by the strong demand of the industry for our graduates in recruitment and for the outreach activities extended by the university to the industry. University is envisioning to change its landscape from a typical teaching dominant university to a balanced teaching, research and entrepreneurship based one. In this context university focuses on nurturing creative and innovative thinking of students, conducting high impact research and also instilling interest on technology transfer, business creation within its student and staff community thereby promoting university, industry and government linkages.

University has also paid great attention to the aspect of quality in the process of delivery of its academic programmes. This has led in channelling all its efforts towards benchmarking of academic programmes and the delivery process. Furthermore university is also working towards enhancing its international ranking through all relevant activities.

After the period of more than four decades of existence, university is proud of the expertise of its academic staff, portfolio of courses offered in particular meeting the current needs of the country, areas of research of high impact and of the alumni who are holding leading posts locally as well as across the globe.

While contributing to the human resource development of this country in meeting current global challenges, university is also contributing to the economic development of our society and it will continue to do so in line with the future evolutions.

I believe that this university catalogue provides an excellent insight to the programmes it conducts, the facilities it possesses and also an projects overview of the university's perspective.

Professor Rahula Anura Attalage  
Deputy Vice-Chancellor

## **UNIVERSITY OF MORATUWA**

### VISION AND MISSION OF THE UNIVERSITY

#### **OUR VISION**

To be the most globally recognized Knowledge Enterprise in South Asia

#### **OUR MISSION**

To be the leading Knowledge Enterprise for technological and related disciplines in South Asia  
by:

Providing transformative education in technological and related disciplines which nurtures the  
inquiring mind and develops knowledge and skills for facing global challenges;

Carrying out nationally relevant and high-impact research to expand the boundaries of knowledge  
and to enhance the national technological capabilities;

Providing expert services to the State, Industry and the Society as an Internationally positioned  
Sri Lankan University; and

Contributing to sustainable, scientific, technological, social and economic development of Sri Lanka.

# THE UNIVERSITY OF MORATUWA

The University of Moratuwa, Sri Lanka is an independent state university located at Katubedda, Moratuwa overlooking the picturesque Bolgoda Lake. It was established as the University of Moratuwa (UOM) on December 22, 1978 under the Universities Act No. 16 of 1978 and operates under the general direction and guidelines of the University Grants Commission (UGC), Sri Lanka. However, its origin can be traced back to the Government Technical School (GTS) which was established in Maradana, Colombo 10 in 1893.

The GTS, was renamed as Ceylon Technical College (CTC) in 1906 and in January 1933, The CTC was authorized to prepare candidates for the external degrees in engineering of the University of London and for the Associate Membership Examinations of the three major professional institutions (Civil, Electrical and Mechanical) in England. A Junior Technical Officers (JTO) course was also inaugurated at the CTC in the late 1940's.

Technical education at Katubedda commenced in 1960 when the technician courses at the CTC were transferred to a new establishment called the Institute of Practical Technology (IPT) constructed at the current premises of the university. It was a gift from the people of Canada and its primary aim was to provide full-time JTO courses for technicians of sub-professional grades. The Government of Ceylon (GoC) in 1961 realized that an effective system of specialized education and training, capable of supplying the country with necessary scientific and technical personnel, was a pre-requisite to achieve and sustain rapid development. The GoC, therefore, appointed a Commission of Inquiry on Technical Education. As engineering education at professional level was provided at that time exclusively by the Faculty of Engineering of the University of Ceylon, the Commission in its report of 1963 recommended the expansion of facilities at Katubedda to cater to professional engineering education.

The Ceylon College of Technology (CCT) was thus established at Katubedda in 1966 which offered practically oriented engineering diploma (Diploma in Technology, abbreviated to Dip. Tech.) equivalent to a degree. It was, developed and offered with technical assistance from UNESCO. The CCT commenced its diploma course with specializations in civil engineering, electrical engineering and mechanical engineering, initially utilizing the physical facilities available at the IPT. The IPT which continued to offer its full-time courses from the same premises was amalgamated with the CCT in 1967 and the JTO course was restructured and renamed as the Technician's Course. At the beginning of the third year of the Dip.Tech. programme, the electrical engineering stream was bifurcated to electrical engineering and electronic and telecommunication engineering specializations. The Department of Electronic and Telecommunication Engineering was thus formally established in 1969. The CCT at Katubedda earned university status, as the Katubedda Campus of the then University of Ceylon on February 15, 1972. The Department of Architecture which was located in Colombo at that time was transferred to Katubedda with the formation of this new Campus. The campus at the

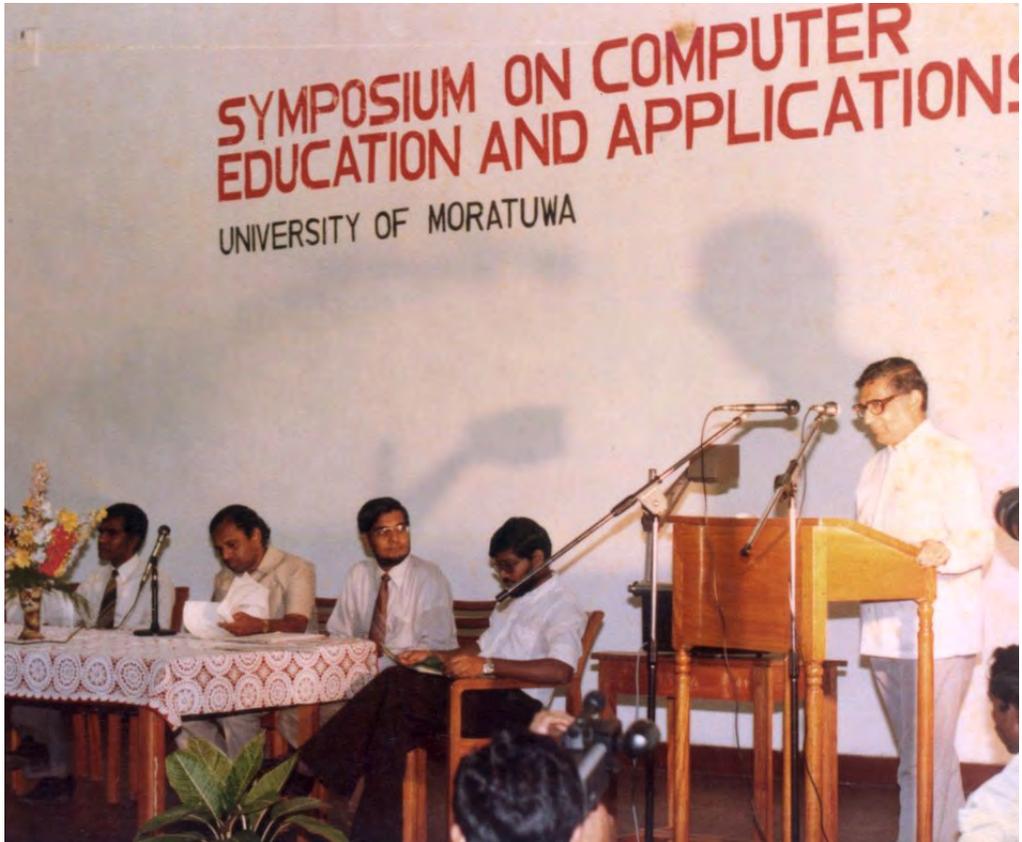
beginning had only one faculty, i.e. Faculty of Engineering and Architecture. The first president of the campus, Dr. L.H. Sumanadasa, who steered the progress of the Institution, was in fact the principal of the IPT. With Ceylon becoming a republic on May 22, 1972, the corporate name of the university was changed to read as the University of Sri Lanka.

Consequently, the Dip.Tech. programme was upgraded to a B.Sc. Engineering degree programme and all students from the first intake of Dip. Tech. became eligible for a degree. Further, the name of the Technicians Course was changed to read as the National Diploma in Technology (NDT).

With the gaining of university status, the technical education programmes conducted at the Katubedda Campus were expanded. The Department of Town & Country Planning was established within the Faculty of Engineering & Architecture in 1973. Furthermore, in 1974, with the formation of a link-programme between the University of Moratuwa and the University

of Leeds in the UK, the School of Applied Science was instituted. Under this school, the Departments of Chemical Engineering, Materials Science and Mining & Minerals Engineering were established. In 1975, a Computer Centre with a modest computer IBM 1130 computer was established within the Department of Electrical Engineering to serve the entire university. With the development in engineering education at Katubedda, the first post-graduate programme was inaugurated at the Department of Civil Engineering in 1976.

The Universities Act. No. 16 of 1978 brought in further changes to the corporate structure and composition of tertiary education. Under Section 139(1) of this Act, the Katubedda Campus of the University of Sri Lanka acquired the status of an independent university with its present corporate name 'The University of Moratuwa, Sri Lanka', with three faculties of study, namely the Faculty of Engineering, the Faculty of Architecture and the Faculty of Physical and Applied Sciences.



In 1981, the Faculty of Physical and Applied Sciences was amalgamated with the Faculty of Engineering. As all the courses of study at Moratuwa were offered in the English Medium, the University established a Department of Languages and Social Studies in 1977 to assist students in enhancing their language skills and this department was renamed as the English Language Teaching Centre (ELTC) in December 1983.

In 1983, the Department of Building Economics was established at the Faculty of Architecture and the undergraduate programme leading to Bachelor of Science (Honors) Degree in Quantity Surveying commenced in 1985. In the same year, the Department of Civil Engineering was shifted to its own building complex at a site bordering the north-eastern boundary of the university, fringed by the Bolgoda Lake.



The Department of Textile Technology was set up as a fully-fledged department in 1985, with the launch of the Bachelor of Science of Engineering Degree Programme and the department was shifted to its own fully equipped building in 1988. The Department of Computer Science & Engineering was established in 1988. The Department of Computer Science and Engineering was established in 1985 in the Faculty of Engineering incorporating the Computer Centre already existed, and the first batch of students was enrolled in 1986.

In the 1990s, student accommodation and hostel facilities received the attention of the administration. New hostels were constructed and extensions to existing ones were done during the period 1991 – 1995. A girls' hostel was instituted in 1991. The university library which was scattered in different buildings with difficulties to cater to the increased intake of students was relocated in 1995.

With further development, the Department of Management of Technology was established in 1998 in the Faculty of Engineering in response to a national need for the discipline of technology management. In 1998, the name of the Chemical Engineering Department was changed to Department of Chemical and Process Engineering to reflect the broader area of application of the field.

With the implementation of the Science and Technology Personnel Development Project funded by the Asian Development Bank in October 1998, all departments in the Faculty of Engineering promoted Master's degree programmes by instruction and by research. The first PhD from the Faculty of Engineering was completed in May 1999. These developments in research could be considered as a major turning point for Moratuwa University to be considered as a 'fully-fledged' University.





In order to keep abreast with the development of engineering education, the courses of the Faculty of Engineering were converted to semester system from sessional examination system. The Engineering II stream (which consisted of a separate entry to Chemical Engineering, Materials Engineering and Mining & Mineral Engineering) was eliminated and students were instead taken to the University under the common "Engineering" category.

Arising of a perceived need to separate technical education at lower than degree level from the main university, the Institute of Technology University of Moratuwa (ITUM) was established in March 2000 to conduct the National Diploma in Technology course separately from the Faculty of Engineering, with the Ordinance for the same having been gazetted in August 2000. In July 2000, the name of the Department of Mining and Mineral Engineering was changed to the Department of Earth Resources Engineering to reflect the changes in their scope.

With the rapid expansion of Information Technology industry, the country strongly felt the need to increase the production of qualified IT professionals by the higher educational institutions. The Faculty of Information Technology, the first ever faculty of this kind in the state university system, was thus established in June 2001 as the third faculty in the UoM with its first intake of 50 students in January 2002.

In 2001, Bachelor of Design was launched by the Department of Architecture while in November 2001, the Bachelor of Design in Fashion Design and Product Development course, conducted by the Department of Textile and Clothing Technology, was launched with technical assistance from the London College of Fashion of the University for the ARTs, London, to cater for a national need to create a value added apparel industry. The name of the Department of Textile Technology was subsequently changed to Textile and Clothing Technology to emphasise the equal importance given to clothing studies at the UoM.

The Department of Management of Technology moved to its new building in December 2001. The first MBA programme of the UoM, in the specialization of Management of Technology, was inaugurated in November 2001. The next MBA in Information Technology commenced in November 2002 followed by MBA in Infrastructure in 2003 and MBA in Project Management in 2004. In April 2003, the Department of Electronics & Telecommunication Engineering moved to

its new modern building from the earlier location in the Sumanadasa building.

The Department of Town & Country Planning which had been conducting only postgraduate studies in Town & Country Planning until year 2003 commenced its Honours Degree course in BSc in Town & Country Planning in 2003. The Department of Building Economics launched its second undergraduate programme in September 2005 leading to BSc in Facilities Management degree.

The latest addition to the Faculty of Engineering was the Department of Transport & Logistics Management in September 2005 as a national need with strong support from the Transport and Logistics industry. The Department now offers BSc in Transport & Logistics Management degree with an annual intake of 50 students.

In June 2009 the name of the Department of Materials Engineering was changed to Department of Materials Science and Engineering to reflect the importance of science in materials engineering. With further increase in student intake the University physical facilities were enhanced and a new Chemical Engineering building was opened in 2009, and a new Mechanical Engineering building was opened in April 2010.

The Faculty of Information Technology launched its second undergraduate programme in June 2010 leading to BSc in Information Technology and Management degree.

With the intention of further enhancing reasearch profile of the university, the Faculty of Graduate Studies was established in 2015.

At present the University of Moratuwa consists of four faculties as;

- Faculty of Architecture
- Faculty of Engineering
- Faculty of Information Technology
- Faculty of Graduate Studies

# FACULTY OF ARCHITECTURE

The Faculty of Architecture of the University of Moratuwa is the only faculty in the Sri Lankan state university system that provides undergraduate and postgraduate studies in the disciplines of architecture, quantity surveying, town & country planning and integrated design.

At present there are more than 2000 undergraduate and postgraduate students in the faculty which carries out its academic activities with more than 80 academic staff members who have been qualified in the relevant fields either in Sri Lanka or overseas. The Faculty of Architecture has the following four academic departments:

- Department of Architecture
- Department of Building Economics
- Department of Town and Country Planning
- Department of Integrated Design

The faculty also has the following divisions and units which provide training and academic inputs for undergraduate and postgraduate students as well as for academic staff.

- Undergraduate Studies Division
- Postgraduate Studies Division
- Faculty of Architecture Research Unit (FARU)
- Faculty of Architecture Quality Assurance Cell

The Faculty of Architecture at present offers six undergraduate degree programmes and thirteen postgraduate degree programmes besides Master of Philosophy Degree and Doctoral Degree programmes.

Apart from academic programmes, the faculty is also a venue for extracurricular activities and events, such as exhibitions, guest lectures and workshops conducted by invited academics as well as industry experts. In addition, the faculty organizes study tours and assigns vacation work for the students to enhance their competencies and their continuous orientation towards education.



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# DEPARTMENT OF ARCHITECTURE

The Department of Architecture currently offers undergraduate programmes in the areas of architecture and landscape architecture. In addition, it offers postgraduate programmes in interior design, landscape architecture, urban design and conservation of historic monuments.

The Bachelor of Architecture Honors (B Arch Hons) Degree programme is a five year undergraduate degree programme accredited by the Royal Institute of British Architects (RIBA), Commonwealth Association of Architects (CAA), and the Sri Lanka Institute of Architects (SLIA). A student successfully completing the B Arch Hons Degree will be exempted from Part II examination of the Sri Lanka Institute of Architects which is the premier professional body governing the architectural profession in Sri Lanka.

The department maintains a continuous and close relationship with the architectural profession as well as the building industry in the country. Towards this end, it regularly conducts seminars and workshops and utilizes the services of professional architects and other professionals in the building industry to design studios and teach specific modules of its programmes.

The Faculty of Architecture at present offers six undergraduate degree programmes and thirteen postgraduate degree programmes besides Master of Philosophy Degree and Doctoral Degree programmes.

Apart from academic programmes, the faculty is also a venue for extracurricular activities and events, such as exhibitions, guest lectures and workshops conducted by invited academics as well as industry experts. In addition, the faculty organizes study tours and assigns vacation work for the students to enhance their competencies and their continuous orientation towards education.



# DEPARTMENT OF ARCHITECTURE

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of Architecture (B Arch Hons)
- Honours Degree of Bachelor of Landscape Architecture (BLA Hons)

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Architectural Conservation of Monuments and Sites
- PGDip/ MSc in Interior Design
- PGDip in Urban Design/ Master of Urban Design (MUD)
- PGDip/ MSc in Landscape Design

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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<http://www.mrt.ac.lk/archi/index.html>

# DEPARTMENT OF BUILDING ECONOMICS



The Department of Building Economics is the first in the country to offer undergraduate programmes in quantity surveying and facilities management. The Quantity Surveying Degree Programme has been accredited by the Institution of Quantity Surveyors, Sri Lanka (IOSSL), Royal Institution of Chartered Surveyors (RICS), Pacific Association of Quantity Surveyors (PAQS) and Chartered Institution of Civil Engineering Surveyors (CICES). The Facilities Management Degree programme has been accredited by the Royal Institution of Chartered Surveyors (RICS).

The postgraduate programmes in project management, construction law & dispute resolution and occupational safety & health management offered by the department enable professionals in the industry to specialize in fields of their choice and enhance their career prospects. The postgraduate research studies (MPhil, PhD) at the department are supported by a dedicated team of multi-disciplinary academics. The Building Economics & Management Research Unit (BEMRU) of the department promotes research and scholarly activities in the built environment.

The department's vision is to produce graduates with perception, innovation, imagination and problem solving skills who can respond to new situations. It has a mission for inculcating skills, promotion of mind and advancement of learning through higher education and providing an environment for students to grow intellectually, socially and spiritually.

The department provides consultancy services to the industry in its thrust areas and regularly conducts Continuous Professional Development (CPD) courses for the benefit of quantity surveyors, facility managers and project managers. Plans are also afoot to commence within the next five years, two new degree programmes as Master of Science (MSc) in Building Information Modeling & Management and Bachelor of Science Honors Degree in Building Surveying.



# DEPARTMENT OF BUILDING ECONOMICS

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of Science in Quantity Surveying (BSc Hons (QS))
- Honours Degree of Bachelor of Science in Facilities Management (BSc Hons (FM))

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Project Management
- PGDip/ MSc in Construction Law and Dispute Resolution
- PGDip/ MSc in Occupational Safety and Health Management

### Postgraduate Programmes (Research)

MSc/ MPhil and PhD (Full-time and part- time) Degree Programmes in the following areas:

- Sustainable Construction
- Disaster Management
- Building Economics and Cost Management
- Procurement and Contracts Management
- Construction Law and Dispute Resolution
- Construction Performance, Productivity and Risk
- Facilities Management and Building Performance Management
- Information and Communication Technologies in Construction
- Knowledge Management, Learning and Innovation in Construction
- Lean Construction and Construction Waste Management
- Construction Project and Organizational Management
- Construction Education
- Building Information Modeling

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# DEPARTMENT OF TOWN AND COUNTRY PLANNING



The Department of Town and Country Planning is mindful of the importance of planning and designing human settlements that provide environments which are conducive for people to live in harmoniously, integrating with natural settings and providing space for their long lasting cultural practices. These settlements need to be designed in such a way that they have the strength to withstand both natural and manmade disasters. Then only it will provide the people who live therein with economic and socio-political freedom to move with global trends in science and technology. Master of Spatial Planning, Management and Design Degree programme offered by the department is the only such programme offered by a state university in Sri Lanka.

The vision of the department is to be the emerging and prestigious centre for knowledge enterprise in spatial planning and spatial management technology.

In order to realize this vision, the department has set out its own well defined goals and is systematically working towards them. It strives to ensure a high quality learning environment for its students in spatial planning, management, design, and technology. Accordingly, the department plans to achieve global recognition to its degree programmes by producing graduates with multiple capabilities and entrepreneurial skills.

The department carries out high quality research in areas such as urban management, infrastructure, urban design, planning technology, environmental planning and community development. It also provides consultancy services to the industry and conducts short courses for practicing professionals in the aforesaid fields.

Through the Quality & Innovation Grant (QIG) it received from the Higher Education for the Twenty-First Century (HETC) Project of the Ministry of Higher Education and University Grants

Commission, for the period 2013-2015, the department has tremendously improved the quality of its undergraduate programmes. This is the first department of the University of Moratuwa to release an internationally refereed journal, "Bhumi" which commenced publishing in 2009.

The department has been conducting a joint Master's Degree programme in collaboration with the "La Trobe University", Australia since 2012. In addition, the department has been the National Center for the South Asia Urban Knowledge Hub since 2014.



# DEPARTMENT OF TOWN AND COUNTRY PLANNING

## Degree Programmes:

### Undergraduate Programmes

Honours Degree of Bachelor of Science in Town and Country Planning (BSc Hons (T&CP)) in the following specializations:

- Urban Management
- Infrastructure Planning & Design
- Environmental Planning
- Land Use Analysis and Planning Technology

### Postgraduate Programme (Taught)

- Master of Spatial Planning, Management and Design

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF INTEGRATED DESIGN

The Department of Integrated Design offers a four year full time undergraduate programme leading to the Bachelor of Design (B.Des) Degree. This is the only such course offered by a state university in Sri Lanka. The curriculum of the degree programme has been developed by considering issues, needs and requirements of the design industry in the country to facilitate its independent growth and development to enable it to meet the growing needs of the country. The concept of 'Integrated Design' is incorporated in to the curriculum and students get an opportunity to learn live spatiality, creativity, functionality and aesthetics of an environment.

Teaching methods of the department have been developed to meet its principal goal of producing designers to cater to the emerging innovative economy of Sri Lanka.

The department's vision is to become the frontier of design related higher education at national level, contributing a diverse range of design-field professionals and its mission is to incorporate a pragmatic and socially responsible approach to undergraduate and postgraduate teaching outcomes.

The department provides consultancy services to the industry, inspiring and serving the needs of the society through both contemporary and traditional modes of thought, technology and media, and promotes at the same time the integration of different design fields.

The department conducts outreaching programmes to develop and promote traditional crafts and raise the living standards of the associated communities while also contributing to the organizing of national events such as the 'Shilpa' exhibition and other similar exhibitions and competitions organized by bodies such as the National Craft Council.



# DEPARTMENT OF INTEGRATED DESIGN

## Degree Programmes:

### Undergraduate Programmes

Honours Degree of Bachelor of Design (B Des Hons) in the following specializations:

- Fashion and Lifestyle Design
- Media and Communication Design
- Product Design

### Postgraduate Programme (Taught)

- Master of Design

### Postgraduate Programmes (Research)

- MPhil
- PhD



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# FACULTY OF ENGINEERING



The Faculty of Engineering is the largest faculty in University of Moratuwa, comprising over 240 academic staff and around 4000 undergraduate and postgraduate students.

Academic departments of the Faculty of Engineering are as follows:

- Department of Chemical and Process Engineering
- Department of Civil Engineering
- Department of Computer Science and Engineering
- Department of Earth Resources Engineering
- Department of Electrical Engineering
- Department of Electronics and Telecommunication Engineering
- Department of Management of Technology
- Department of Materials Science and Engineering
- Department of Mathematics
- Department of Mechanical Engineering
- Department of Textile and Clothing Technology
- Department of Transport and Logistics Management
- Department of Languages (servicing the entire university)

Today the Faculty of Engineering of the University of Moratuwa has emerged as a premier school of engineering and engineering research in Sri Lanka and in the South Asian region with an

outstanding achievement of engineering student employment rate currently standing at 97 percent at the time of convocation. This achievement is due to the combination of dedication and untiring efforts of the academic staff as well as other staff of the faculty who strive to offer an exceptionally high quality engineering education. It thus ensures that the students have all necessary competence in fundamental concepts making them highly employable both at home and abroad.

The faculty at present offers the Bachelor of the Science of Engineering degree in ten disciplines, the Bachelor of Design in Fashion Design and Product Development and the Bachelor of Science in Transport and Logistics Management. In addition, the faculty offers a large number of postgraduate degrees including MSc, MEng, MBA, MPhil and PhD.

All the ten specializations of engineering degree programme have been accredited by the Institution of Engineers, Sri Lanka (IESL) which is the premier professional body governing the engineering profession in Sri Lanka.

The faculty also has an Industrial Training Division in addition to the above academic departments which coordinates industrial training of the undergraduates.

All the academic and administrative activities of the faculty are co-ordinated by the Dean's office assisted by the following administrative units:

# FACULTY OF ENGINEERING

- Undergraduate Studies Division
- Postgraduate Studies Division
- Engineering Research Unit
- Quality Assurance Cell

The Faculty of Engineering of the University of Moratuwa acts as the leader in engineering education in Sri Lanka by contributing to its sustainable, scientific, technological, social and economic development.



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# DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING



The Department of Chemical and Process Engineering at the University of Moratuwa is one of the premier engineering departments in the Sri Lankan university system. With a vision to standardize, optimize and scale up the production processes in a commercially viable manner through the sustainable utilization of raw materials, the unique mission of the department is to satisfy its objectives.

The Department of Chemical and Process Engineering maintains a close collaboration with the industry. The industry facilitates the department with internship opportunities for undergraduates, and provides competent and well-experienced mentors for the mentoring programmes of the department, while assisting the department in organizing field visits for undergraduates that will enhance their competencies. The close relationship the Department maintains with the industry helps fresh graduate to find career opportunities easily. The Department Industry Consultative Board further strengthens the bond between the department and the industry while improving the quality of the degree programme towards enhancing the proficiency of the future-graduates in meeting industrial requirements.

The department not only encourages and promotes students to associate with professional institutions and various societies and associations but also encourages and facilitates many extra-curricular activities and sports activities, in order to enhance their

knowledge and soft-skills as a prospective professional. Their stay at the department under the wings of well-qualified and well-experienced academic staff, and within a well-established, well-maintained and stimulating environment is definitely a career developing and an exciting experience for them.

The Department of Chemical and Process Engineering is a blessing to the university and students in every aspect as it always strives to deliver chemical and process engineering knowledge, skills and innovation to ensure a sustainable tomorrow through education, research and consultancy services provided with dedication, devotion and commitment.



# DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Chemical and Process Engineering in the following focus areas:

- Energy and Environmental Engineering
- Food and Biochemical Engineering
- Polymer Engineering
- Petroleum Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Polymer Technology
- PGDip/ MSc in Sustainable Process Development

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



## Contact Information

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# DEPARTMENT OF CIVIL ENGINEERING



The Department of Civil Engineering is one of the strongest and well-established academic departments in the Sri Lankan university system. Its strength lies in its academic staff who come from diverse academic backgrounds with qualifications obtained from universities located in different parts of the world. This makes the department academically strong even by international standards. While the flagship programme of the department is Bachelor of the Science of Engineering Honours (BSc Eng Hons) Degree programme in the field of Civil Engineering, the department also offers postgraduate degree programmes (both taught and research) as well as Continuing Professional Development (CPD) programmes actively engaging in research and development activities.

BSc Eng Hons Degree Programme in Civil Engineering offered by the department is well-established covering many areas such as building & structural engineering, construction engineering & management, environmental engineering, geotechnical engineering, hydraulic & water resources engineering and transportation engineering. Its curriculum is being continuously revised in keeping with changes in the educational system and needs of the profession. The programme offers considerable flexibility to students in that they can select modules of their choice for studying and provides them with an environment that prepares them for their future careers.

The department strives to provide a learning environment that enables students to gain familiarity with state of the art technologies and practices. Teaching, learning and assessment schemes are developed in keeping with attributes expected from graduates. The degree programme has been accredited by the Institution of Engineers, Sri Lanka (IESL) and the Joint Board of Moderators (JBM/ICE) of the United Kingdom.



# DEPARTMENT OF CIVIL ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Civil Engineering

### Postgraduate Programmes (Taught)

- PGDip/ Master of Engineering (MEng) in Construction Project Management
- PGDip/ MEng in Foundation Engineering and Earth Retaining System
- PGDip/ MEng in Highway and Traffic Engineering
- PGDip/ MEng in Water Resources Engineering and Management
- PGDip/ MSc in Environmental Engineering and Management
- PGDip/ MSc in Environmental Management
- PGDip/ MSc in Structural Engineering Design
- PGDip/ MSc in Transportation
- PGDip/ MSc in Water Resource Management
- PGDip/ MBA in Project Management

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



The Department of Computer Science and Engineering of the University of Moratuwa established in 1985 is a pioneer in ICT (Information and Communication Technology) education in Sri Lanka. The department offers Bachelor of the Science of Engineering Honors (BSc Eng Hons) Degree programme in Computer Science and Engineering as its flagship academic course. The intake for this programme has grown steadily from the 16 students who were there in the inaugural batch to 125 in the current batch with two study streams. The graduates of this degree programme are highly sought after by the industry as evidenced by the fact that typically more than 90% of students of a graduating batch get offers for employment prior to their graduation and 100% of employment at graduation.

The department conducts three postgraduate taught courses and also research based Master of Science and Master of Philosophy programmes. The research work of the department involves numerous areas in computer science and computer engineering such as localization, e-Learning, big data, text mining, image processing, robotics, VLSI (Very Large Scale Integration), networking, knowledge representation, computer and network security, collaborative research with industry etc. The department strongly believes in enhancing soft and leadership skills of students and there are many programmes in place to help students to enhance these skills. Students of the department actively participate in numerous competitions

at departmental, national and international levels. Unparalleled achievements of students of the department at Google Summer of Code (GSoc) to make the University of Moratuwa a top ranking global University bears testimony for talents of the students.

The department has a very strong collaboration with the IT industry. The department is an active sponsor of Lanka Software Foundation (LSF) and one of their research laboratories is located in the department. The Microsoft Mobile Technology laboratory sponsored by Microsoft Sri Lanka is another addition to the resources of the department. The department provides software support for researchers and provides consultancy services for both the state and private sectors for their projects of national importance. The department also offers short courses on computer awareness, networking technologies and other related fields for the general public and for the state and private sector organizations. The department actively participates in events organized by the Institution of Engineers, Sri Lanka (IESL), Computer Society of Sri Lanka (CSSL), British Computer Society - Sri Lanka (BCS-SL), etc., contributing to the developments of the computer engineering field in Sri Lanka.

The department actively supports the Computer Society, University of Moratuwa whose membership is open to all students at the University. Computer Science and Engineering Society (CS&ES) which consists of past and present students has been formed as the forum for alumni of the department to meet and actively engage in developing the department.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Computer Science and Engineering
- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Integrated Computer Engineering

### Postgraduate Programmes (Taught)

- MSc in Computer Science
- MBA in Information Technology
- MBA in e-Governance

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF EARTH RESOURCES ENGINEERING



The history of the Department of Earth Resources Engineering dates back to 1973, when Houldsworth Katubedda link termed as “Leeds Link” was instituted for the establishment of graduate level education schemes in Sri Lanka. This department was established as a division of the School of Applied Science under the above link with assistance from the Overseas Development Ministry in London. From 1973 to 2000, the department operated under the name Mining and Minerals Engineering and offered the Bachelor of the Science of Engineering Degree Programme in Mining and Minerals Engineering. Responding to challenges created by the expansion of the industrial sector, economic growth of the country and government policies, the department was restructured in the year 2000 and, renamed as the Department of Earth Resources Engineering, enabling the department to accommodate a wider range of disciplines. In keeping with this, the annual student intake was also increased up to 50.

Students of the department are exposed to areas of mineral exploration, mining engineering and mineral processing. Mineral exploration involves the study of geology of ore deposits and their exploration using geophysical and geochemical methods, geological mapping, groundwater studies and offshore exploration for minerals. Mining involves, mine designing, rock blasting, shaft sinking, tunneling, drilling, hoisting and quarrying in open-pit and underground mining. Mineral processing involves processing of minerals for metal extraction and refining minerals for industries.

In the year 2004, the department managed to secure a grant from the World Bank for the purpose of Improving the Relevance and Quality of Undergraduate Education (IRQUE) as an emerging field of study. Consequently, the department revised and expanded its undergraduate curriculum to offer three minors under the study stream of Earth Resources Engineering. These three minors are Remote Sensing and Geographic Information Systems (RS&GIS), Ocean Resources Engineering and Gem & Jewellery.

In 2014, the department was awarded a grant from the Government of Sri Lanka in its 2013 budget proposals for introducing petroleum engineering in to the undergraduate education system. As a result, the main degree programme was restructured with mining and minerals engineering stream having four areas viz., Remote Sensing and Geographic Information Systems (RS&GIS), Ocean Resources Engineering, Gem & Jewellery and Petroleum Engineering.

The department has placed considerable emphasis on introducing modern software in a variety of disciplines such as rock blasting, mine planning and designs with the establishment of a new computer design laboratory. Students in the department gain further exposure to modern design software and skills in modeling. Those who select the focus area of RS & GIS will be exposed to the theory and applications in this field, which is a tool for planning, managing and policy development of natural resources as well as disaster mitigation. Ocean Resources Engineering exposes students to the exploitation of ocean resources, while the Gem & Jewellery focus area covers areas of jewellery design, production technology and production management. The newly introduced petroleum engineering focus area will cover areas in petroleum exploration, drilling and production.

# DEPARTMENT OF EARTH RESOURCES ENGINEERING

Senior academic staff of the Department of Earth Resources Engineering have had specialized training both locally and overseas in the fields of extraction metallurgy, mineral processing and analytical chemistry.



## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Earth Resources Engineering
- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Mining and Mineral Processing Engineering

#### Focus Areas:

- Ocean Resources Engineering
- Gem and Jewellery
- Remote Sensing & Geographic Information Systems (RS&GIS)
- Petroleum Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Remote Sensing and Geographic Information Systems
- PGDip/ MSc in Mining and Mineral Exploration

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD

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# DEPARTMENT OF ELECTRICAL ENGINEERING



The Department of Electrical Engineering of the University of Moratuwa specializes in the disciplines of electrical power generation, transmission & distribution; electrical machines and drives; power electronics; industrial automation; renewable energy and environment.

The department is one of the founder departments of the Faculty of Engineering and at present conducts the Bachelor of the Science of Engineering Honors (BSc Eng Hons) Degree programme for an annual intake of about 100 undergraduates. In addition to this, it conducts taught MSc/PG Diploma programmes and postgraduate research programmes. Approximately 100 students register each year for the three MSc/PG Diploma programmes of Electrical Engineering, Electrical Installations, and Industrial Automation. The department also offers research degrees leading to Master of Science, Master of Philosophy and Doctor of Philosophy.

The electrical engineering undergraduate programme prepares and trains undergraduates for electricity and energy sectors, electrical construction industry, manufacturing industry and industrial automation.

Academic staff members of the department have expertise in diverse areas with international exposure and have postgraduate research experience. Research areas of the staff include high

voltage engineering, power system transient analysis, energy systems, energy policy making, computational intelligence, nuclear engineering, power electronics and drives, machine intelligence, robotics, control systems and automation. Many of the staff members have served in advisory capacities both in the state and private sector organizations. In addition to its' research activities, the department also undertakes and conducts consultancy work and product testing for the electricity industry in Sri Lanka.



# DEPARTMENT OF ELECTRICAL ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Electrical Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Electrical Engineering
- PGDip/ MSc in Electrical Installations
- PGDip/ MSc in Industrial Automation
- PGDip/ MSc in Building Services Engineering (Conducted jointly with the Department of Civil Engineering and Mechanical Engineering)

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF ELECTRONIC AND TELECOMMUNICATION ENGINEERING



The development that takes place globally in the fields of electronics, telecommunications and biomedical engineering makes these fields which are fast changing, the most challenging and coveted specializations of engineering.

The Department of Electronic & Telecommunication Engineering produces multi-faceted electronic and telecommunication graduates who are ready to take up challenges both nationally and internationally. It conducts a four year Bachelor of the Science of Engineering Honors (BSc Eng Hons) Degree programme in two fields of specialization, viz., electronic & telecommunication engineering and biomedical engineering, two Postgraduate Diploma programmes, two Master of Science programmes, a full time Postgraduate Research Programme and many regular short courses targeting the industry requirements.

Senior academic staff members of the department have undergone special training both in Sri Lanka and overseas in the fields of physical and opto-electronics, medical & industrial electronics, optical communications, satellite communications, digital communications, wireless communications, VLSI design, signal processing, electromagnetic, robotics, intelligent systems, machine vision & image processing, biomedical systems & avionics .

The department housed in a majestic four storied building on the eastern-side of the university has nine modern laboratories. There are three more industry-sponsored laboratories setup as joint ventures among the university, Dialog Axiata, Zone 24x7, and Premium International. Dedicated for research, these laboratories make considerable and significant contributions to the development of electronics, telecommunications and biomedical engineering industries in the country.

The curriculum of the undergraduate programme is revised regularly to keep pace with the rapid changes that are taking place in the fields of electronics and telecommunications. The degree programme has been accredited by the Institution of Engineers, Sri Lanka which is a signatory to the Washington Accord, and this makes the graduates of this programme recognized globally.

The department encourages innovative thinking and hard work. These together with the department's legacy of excellence enable enthusiastic students to become highly recognized engineers or researchers both nationally and internationally.

The undergraduates of the department organize exhibitions, workshops, and competitions for school children annually. In addition, social service activities are conducted to help under-privileged people. These activities complement the academic programmes and help the overall development of the graduates.

# DEPARTMENT OF ELECTRONIC AND TELECOMMUNICATION ENGINEERING



## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Electronic and Telecommunication Engineering
- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Biomedical Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Telecommunications
- PGDip/ MSc in Electronics and Automation

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD

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# DEPARTMENT OF MANAGEMENT OF TECHNOLOGY



The Department of Management of Technology (MOT) is the forerunner of the technology management education and training in Sri Lanka and offers twenty two management and technology management modules to support undergraduate programmes offered by the other departments of the faculty. The academia of the department includes internationally recognized academics and specialists drawn from the industry.

The department maintains close collaboration with foreign universities, professional institutions, and industry partners to ensure that the quality and the standard of the programmes it conducts are high and that they are in line with market requirements.

MOT offers both part time and full time postgraduate programmes. Moreover, it conducts custom-built Continuing Professional Development (CPDs) programmes to fulfill requirements of those who are employed in the industry. The department also undertakes external research and consultancy work.



# DEPARTMENT OF MANAGEMENT OF TECHNOLOGY

## Degree Programmes:

### Undergraduate Programmes

The Department offers a minor specialization in entrepreneurship to enhance entrepreneurial skills of the undergraduates of the faculty with the objective of producing job creators instead of job seekers.

### Postgraduate Programmes (Taught)

- MBA in Management of Technology
- MBA in Entrepreneurship

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING



**M**aterials Science and Engineering is a rapidly advancing and nationally relevant engineering discipline. Metallurgical engineering, polymer engineering, ceramic engineering, nano materials, bio materials and construction materials are its major thrust areas. The University of Moratuwa is the only university in Sri Lanka that offers a Bachelor of the Science of Engineering Honors (BSc Eng Hons) Degree programme in Materials Science and Engineering.

The progress made by engineering in the last fifty years has been directed by materials scientists and engineers around the world. There is no denying of the fact that the absence of materials with desired properties has become a major barrier for innovation in the fields of engineering. Almost all recent technological advances had been a result of the developments in the field of materials science and engineering. Anti-staining coatings, flexible electronic displays, magnetic fluid speakers are some of these innovations.

The department's vision is to become a centre of excellence in higher learning, research, industrial consultancy and other relevant activities in materials science and engineering. It's mission is to provide the opportunity for undergraduates and postgraduates to acquire specialized knowledge on the development and processing of engineering materials with attention given to economic and environmental aspects while

studying design, management and information technology to cater to national development. The degree programme in materials science and engineering conducted by the department is accredited by the Institution of Engineers, Sri Lanka (IESL) and is a qualification recognized to become a chartered engineer of IESL and to get registered with the IESL as an internationally recognized professional engineer. The curriculum is regularly updated with continuous feedback from students, alumni, industry and employers and this provides flexibility, diversity and relevance to the degree programme and allows students to select areas that are in the forefront of technology. Graduates of the department are employed globally and are involved in production and processing, research and development, planning, quality control, etc.



# DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Materials Science and Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Materials Science

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF MATHEMATICS



The Department of Mathematics serves all other departments in the Faculty of Engineering. Mathematics is one of the oldest academic disciplines and is one of the most developed disciplines for solving problems in basic sciences as well as engineering sciences and is considered as 'The Queen of Engineering Sciences'. Statistics, too, is a versatile subject that derives inferences from sample data drawing conclusions for decision making.

The vision of the department is to be recognized nationally as well as internationally for its excellence in teaching and research in mathematics and statistics. The department offers a variety of common modules up to the fourth semester and some modules for other departments depending on their requirements.

The department covers important sections in the areas of logic & set theory, real analysis, numerical methods, multivariate calculus, ordinary differential equations, probability and statistics, linear algebra and graph theory. From level 3, the department offers applied statistics, linear models and multivariate statistics, operational research, time series and stochastic process and neural network and fuzzy logic.

The Masters' Degrees in Operational Research and Business Statistics are conducted only by the Department of Mathematics in the country. The department is planning to introduce a new

postgraduate programme for mathematics especially for teachers of mathematics in schools. The department also provides statistical advisory services to the university community. It has computer laboratories equipped with common mathematical and statistical software for use by the research students of the university.



# DEPARTMENT OF MATHEMATICS

## Degree Programmes:

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Operational Research
- PGDip/ MSc in Financial Mathematics
- PGDip/ MSc in Business Statistics

### Postgraduate Programmes (Research)

- MPhil
- PhD



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# DEPARTMENT OF MECHANICAL ENGINEERING



**M**echanical Engineering is a core field of engineering and the Department of Mechanical Engineering is one of the pioneering academic departments of the Faculty of Engineering. The department being conscious of the importance of the contribution that mechanical engineering can make to the national development considers energy engineering, automobile, thermo-fluids, design and manufacturing, industrial automation, robotics & mechatronics, and industrial engineering as its thrust areas.

The vision of the department is to be an internationally recognized centre of excellence offering a study programme of high quality teaching, research, industry-related consultancy and outreach activities with national relevance, innovation and creativity in the field of mechanical engineering. Its mission is to produce engineers and researchers with a sound knowledge in the fundamentals of traditional, modern and emerging areas of engineering together with innovative design abilities, IT and managerial skills, which are essential to achieve sustainable national development.

The department is rich with staff members having postgraduate qualifications in diversified fields of mechanical engineering who carry out research in areas of building energy, biomass and bio energy, sustainable energy systems, assistive robotics, biomedical devices, MEMS/NEMS & mechatronics, computer aided modeling

and analysis and industrial engineering through MSc, MPhil and PhD research degrees.

It also undertakes various industry-related consultancy projects in its thrust areas and conducts on a regular basis, Continuous Professional Development (CPD) courses for both engineers and technical personnel. The Dye and Mould Facilitation and Development Centre and the industry sponsored 'Atlas-UOM Product and Systems Development Research Laboratory' are testimonies to the confidence that the industry has placed on the department.



# DEPARTMENT OF MECHANICAL ENGINEERING

## Degree Programmes:

### Undergraduate Programmes

Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Mechanical Engineering in the following focus areas

- Energy Engineering
- Product Design & Manufacturing
- Mechatronics
- Building Services Engineering
- Industrial Engineering

### Postgraduate Programmes (Taught)

- PGDip/ MEng in Energy Technology
- PGDip/ MEng in Manufacturing Systems Engineering
- PGDip/ MSc in Building Services Engineering

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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<http://www.mech.mrt.ac.lk>

# DEPARTMENT OF TEXTILE AND CLOTHING TECHNOLOGY



The textile industry has stretched into almost every sphere in the world. The garment and textiles industry is the largest export-oriented manufacturing industry in Sri Lanka, contributing considerably to the nation's export revenue. The department is well aware of the importance of the study area in national development and over the years has improved its curriculum incorporating latest teaching methods and by employing a group of academics who have obtained their postgraduate qualifications from internationally recognized universities.

The vision of the department of Textile and Clothing Technology is to offer the most sought after degree programme in textile and apparel related disciplines. Its mission is to provide competent well-rounded graduates for the benefit of national and regional communities; to maintain high standards and to be subject to continuous improvement in all aspects of teaching and learning; and to produce graduates who have up to date knowledge, relevant skills and positive attitudes.

The department has so far produced nearly 950 BSc Engineering graduates and 280 B.Des. graduates, and most of them are rewardingly employed in the industry, making an enormous contribution to the growth of the industry. The department also offers a variety of Continuing Professional Development programmes while being actively engaged in research, consultancy and development activities.

The department currently carries out research in the areas of productivity improvement, sustainability, new textured yarn structures, behavior of knitted fabrics, natural dyes, fibrefilled products, performance fabrics, automation, market studies and consumer behavior.



# DEPARTMENT OF TEXTILE AND CLOTHING TECHNOLOGY

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of Design in Fashion Design & Product Development (B Des Hons (FD&PD))
- Honours Degree of Bachelor of the Science of Engineering (BSc Eng Hons) in Textile & Clothing Technology

### Postgraduate Programmes (Taught)

- MSc in Textile & Clothing Management

### Postgraduate Programmes (Research)

- MSc
- MPhil
- PhD



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# DEPARTMENT OF TRANSPORT AND LOGISTICS MANAGEMENT



Established in 2005 and affiliated to the Faculty of Engineering of the University of Moratuwa, the Department of Transport and Logistics Management has fulfilled a long felt need of the industry to develop qualified professionals in the areas of transport, logistics and supply chain. The flagship programme of the department is the Bachelor of Science in Transport and Logistics Management. In addition, the department also offers postgraduate programmes (MSc & PhD), short courses and consultancy services to government institutions and industries. The department has earned high recognition in all sectors, both locally and internationally, due to several Memorandums of Understanding (MoU) it has entered in to with different institutions/universities and the resulting collaborative programmes.

The undergraduate degree programme comprises a wide variety of technical and management subjects as well as a multitude of skills development modules. Subjects such as shipping, aviation, road transport, network planning, logistics, supply chain management, operations research, mathematics, information technology, economics, finance, accounting, management, business law. etc., are taught throughout the four year degree programme. In the final year, the students are allowed to specialize in one of the four focus areas of air transport, maritime transport, transport systems or supply chain management.

The department offers postgraduate programmes and to meet the demands of the working professionals, the department also offers a variety of short courses, customized training programmes, seminars and workshops conducted as Continuing Professional Development (CPD) programmes.

A mandatory component of the undergraduate degree programme is industrial training which has a duration of 24 weeks at well recognized organizations, exposing students to the industry, and providing them with a glimpse of what the industry is expecting from fresh graduates. The Industry Mentoring Programme and Career Development Camp also provide valuable tips for undergraduates to prepare for life after university. The department is supported by an effervescent Department-Industry Consultative Board (DICB) which meets annually to review and improve the academic programmes of the department.



# DEPARTMENT OF TRANSPORT AND LOGISTICS MANAGEMENT

## Degree Programmes:

### Undergraduate Programmes

- Honours Degree of Bachelor of Science in Transport & Logistics Management (BSc Hons (T&LM))

### Postgraduate Programmes (Taught)

- MBA in Supply Chain Management
- MSc in Transport & Logistics

### Postgraduate Programmes (Research)

- Mphil
- PhD



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# DEPARTMENT OF LANGUAGES



The Department of Languages of University of Moratuwa was established in 2016, with the main objectives of effectively addressing language skills development needs of the entire University and offering tailor-made language enhancement courses to all stakeholders. The Department has a vision of undergraduates and graduates not hindered by the lack of language skills to excel academically and professionally.

The Department functions under the Faculty of Engineering for administrative purposes, but serves the needs of the entire University. It is managed by a Board of Studies comprising heads of all academic departments and undergraduate and postgraduate directors of all three teaching Faculties.

The initial focus of the Department is on conducting English language programmes for development of language skills necessary for the students of the University in their academic and professional work. It also envisages conducting programmes in other recognized international languages in the long term. The Department also plans to introduce programmes aimed at helping students to obtain internationally accepted qualifications such as TOEFL (Test of English as a Foreign Language) and IELTS (International English Language Testing System).

Initial steps have been taken to establish a link with the Maryland English Institute of the University of Maryland, USA.

## Current Programmes of the Department

### Pre-academic Term:

The Communication Skills Development Programme (Foundation) conducted for new entrants of the Engineering Faculty during the pre-academic term, seeks to strengthen the key language competencies required for undergraduate academic studies and to minimise inhibitions when using English. This course concentrates on listening and note taking, familiarisation to technical language, functional grammar and spoken and written production skill enhancement.

A placement test will be held during this programme so that the two language skills enhancement courses offered during semesters 1 & 2 can be offered at the appropriate levels of proficiency to the new entrants.

### Programmes conducted during Semesters 1 and 2

The Department offers two courses during Semesters 1 and 2 to further improve English language proficiency in the key areas of reading comprehension, condensing information, writing coherently and logically for developing an idea and contributing to a subject related discussion.

These programmes will also focus on developing presentation and interactive skills. The students are required to do group projects which will involve group discussions and presentations. These programmes include a writing component which will serve as a stepping stone for report writing.

# DEPARTMENT OF LANGUAGES

## Technical Report Writing and Presentation Skills

The Department also conducts a programme for developing familiarity and competence with regard to using appropriate styles and registers when composing technical writing. This course first provides an elaboration on the distinctive traits of technically oriented communication, and then proceeds to provide training on producing some of the most frequently utilised formats adopted during report and proposal writing viz. formal vs. informal reports, laboratory reports, technical vs. non-technical proposals and reports, feasibility reports, progress reports, design reports and oral reports.

## Other Programmes

The following can be offered on request:

- Self study /tailor-made courses for groups.
- Individual assistance on specific areas such as report/ thesis writing.

## Future Plans

The Department has prepared short-term development plan aimed at meeting the immediate needs and a long-term plan aimed at meeting all the language skills development needs of the entire University.



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www.lang.mrt.ac.lk

# FACULTY OF INFORMATION TECHNOLOGY

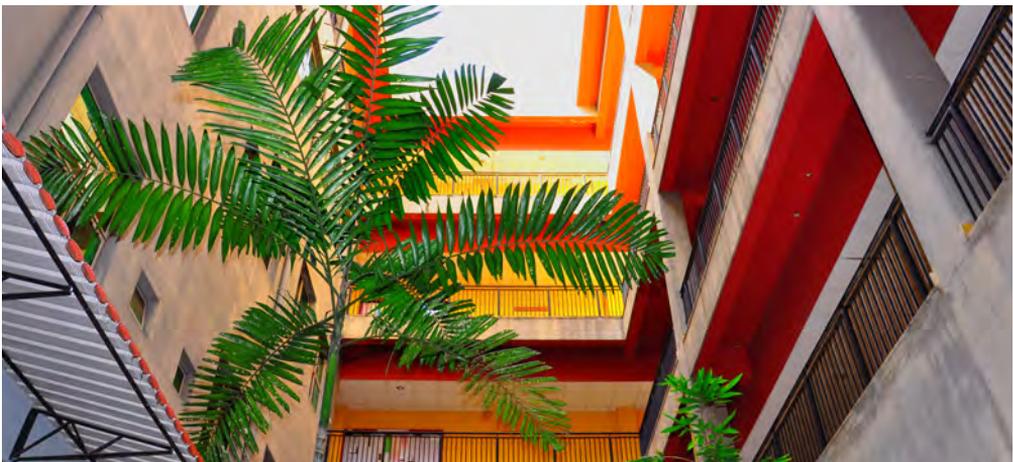


The Faculty of Information Technology is one of the four faculties of the University of Moratuwa and is the first ever faculty of its kind in the national university system of Sri Lanka. The faculty was established in June 2001 to cater to the growing need for Information Technology (IT) professionals in the country. Presently, the Faculty of Information Technology conducts two internal degree programmes, namely, Bachelor of Science Honors (BSc Hons) in Information Technology and Bachelor of Science Honors (BSc Hons) in Information Technology & Management, and the external degree programme, Bachelor of Information Technology.

One of the main objectives of setting up the faculty is to increase the number of IT professionals in Sri Lanka by at least another 500. Some of the other objectives of establishing the faculty are the introduction of postgraduate programmes, carrying out research programmes for the industry to help them solve technical problems, providing consultancies to the local industry and creating an educational environment for the continuous professional development of IT professionals in Sri Lanka.

Fourteen batches of students have so far been admitted to the faculty for the internal undergraduate programme and out of these, 12 batches have already passed out after completing their studies successfully. The faculty is conducting a Master of Science in IT, a Master of Science in Artificial Intelligence, a Master

of Philosophy and Doctoral degrees as postgraduate programmes starting from early 2004. A few professional development programmes have also been designed to address the immediate needs of the local IT industry. The current undergraduate student population is about 1500. The faculty is committed to continue to develop and expand its activities catering to the ever changing needs of the IT industry and to become an entity which both the students and the industry would look up to.



# FACULTY OF INFORMATION TECHNOLOGY

The Faculty of Information Technology has within it the following 3 academic departments.

- Department of Information Technology
- Department of Computational Mathematics
- Department of Interdisciplinary Studies



## Contact Information

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# DEPARTMENT OF INFORMATION TECHNOLOGY



The undergraduate and postgraduates degree programmes offered by the Department of Information Technology are geared towards bringing people and Information Technology (IT) together to create and disseminate knowledge for making a positive change of international relevance to the society to be in line with national priorities.

The undergraduate programme offered by the department leads to the Bachelor of Science Honors Degree in Information Technology which is recognized by the industry in both Sri Lanka and overseas. The undergraduates of this degree programme have excelled in IT competitions for several consecutive years. The employability of the graduates is quite high.

The courses offered by the department covers multimedia technologies, geographic information systems, data communication and networks, database systems, software engineering, mobile technologies, human computer interaction, high performance computing, system automation, intelligence systems, information security and big data processing. Research conducted at the department is funded by various funding agencies and there are collaborations with foreign universities for the research projects.

The department maintains a close relationship with national and international universities.



# DEPARTMENT OF INFORMATION TECHNOLOGY

## Degree Programmes:

### Undergraduate Programmes

- Degree of Bachelor of Science in Information Technology (BSc (IT))
- Honours Degree of Bachelor of Science in Information Technology (BSc Hons (IT))
- Honours Degree of Bachelor of Science in Information Technology & Management (BSc Hons (IT &M))
- Bachelor of Information Technology External Degree (BIT (External))

### Postgraduate Programmes (Taught)

- PGDip/ MSc in Information Technology

### Postgraduate Programmes (Research)

- Mphil
- PhD



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# DEPARTMENT OF COMPUTATIONAL MATHEMATICS



The Department of Computational Mathematics offers course modules for the Bachelor of Science Honors Degree Programme in Information Technology and Bachelor of Science Honors Degree Programme in Information Technology & Management conducted by the Faculty of Information Technology. These course modules which are in three specific subject areas, namely, 'Mathematics & Statistics', 'Theory of Computing' and 'Computational Intelligence' cover areas of computing that are theoretically-based and include a wide spectrum of modules in artificial intelligence.

The department has also established an Artificial Intelligence Research Laboratory to conduct research at both postgraduate and undergraduate levels and works closely with the Sri Lanka Association for Artificial Intelligence. Research in the areas of cognitive systems, machine learning, multi agent systems, ontological modeling and theory of computing is conducted at this laboratory in collaboration with experts in both local and foreign universities.

The Master of Science Programme in Artificial Intelligence offered by the department is the first such course introduced in Sri Lanka and covers fundamentals of artificial intelligence as well as its cutting edge technologies. The primary objective of the programme is to enable students to make use of the knowledge of theory and applications of modern artificial intelligence

techniques to devise intelligent software solutions that can open up multifaceted career paths for them. This programme inculcates research skills into students through a set of unique course modules, research methodologies, philosophy of science and scientific communication. Projects in this Master of Science programme exemplify the power of multi-agent systems, ontological modeling, brain machine interfacing and framework developments and a considerable percentage of them appear in international publications annually. The course is ideal for those who intend to read for their doctoral degrees in artificial intelligence, computer science, computer engineering, software engineering or any other high-end computing field.



# DEPARTMENT OF COMPUTATIONAL MATHEMATICS

Degree Programmes:

Postgraduate Programmes (Taught)

- Master of Science (MSc) in Artificial Intelligence



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# DEPARTMENT OF INTERDISCIPLINARY STUDIES



The Faculty of Information Technology offers degree programmes in the field of Information Technology (IT). The Department of Interdisciplinary Studies is one of the three departments of the faculty that supports these degree programmes.

In order to perform appropriately and survive in the competitive world today, every professional should possess technical skills, as well as language & communication skills, management skills, and skills to deal with the society and the profession.

The Department of Interdisciplinary Studies is dedicated to create multifaceted professionals through course modules encompassing core areas of management of information technology, which include business management, language & communication, finance and accounting, project management, business intelligence, innovation & entrepreneurship, professional practice, and projects.

An information technology professional should be conversant as to how society functions, in order to create IT solutions to address problems of the society, including business problems. They are also required to manage IT resources efficiently, motivate & work with team members, and function as responsible members of the society. In this regard, the Department of Interdisciplinary Studies provides undergraduates with an overall understanding of required core management areas, to enrich their technical skills.

Language and communication skills are essential for individuals to acquire & disseminate knowledge, gain advantages and excel in their chosen fields. The Department of Interdisciplinary Studies diligently imparts these skills to the undergraduates, who have mostly studied in their mother tongue until gaining admissions to the university, and are called upon to learn exclusively in the English medium, to enable them to perform effectively in their chosen career paths.

Understanding the importance of the acceptance of the graduates of the department by the society, the department has been entrusted with the challenging task of developing soft skills of undergraduates who come from different cultural and social backgrounds, providing them with an insight as to how the society functions, through course modules covering social aspects and professional practice.

Through their engagement in projects that enable interaction with the information technology industry, undergraduates are exposed to practical applications of their theoretical knowledge, and they are also given the opportunity to demonstrate their skills to prospective employers in the field. Group projects help to build essential soft skills such as teamwork, leadership, time management, and effective communication. The department provides guidance and support for students to effectively complete their projects.

The department also facilitates the acquisition of additional knowledge and skills via non-technical course modules such as international languages including Japanese, French, German, Hindi, and Korean. Exposure to international languages helps the students to cultivate

# DEPARTMENT OF INTERDISCIPLINARY STUDIES

a multicultural understanding and thereby broaden their horizons. The other non-technical modules offered cover areas of health & safety, food & nutrition, and understanding customer service, which help in creating robust graduates, capable of addressing issues that require both mental and physical health.



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# FACULTY OF GRADUATE STUDIES



The primary goal of the Faculty of Graduate Studies (FGS) at the University of Moratuwa is to enhance the University's research degree programmes. High quality research has become as important as teaching, if not more, to gain better international recognition and competitiveness. Research, being the cornerstone of an academic career, is a key factor in retaining the increasing number of young, high-calibre academic staff the University continues to attract.

The University offers three research degrees, Master of Science (with a major component of research), Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) through its Architecture, Engineering and IT faculties. The FGS seeks to enhance these programmes through strategies to attract high quality students, to explore new research partnerships and funding opportunities, and to enhance research capacity within the University. The FGS works closely with the Office of Research and the Office of International Relations in these efforts. The Faculty also functions as the institutional level administrative and information center for postgraduate taught programmes.

Research at the University of Moratuwa was given a new lease of life in the late 1990s through the Asian Development Bank's Science and Technology Personnel Development Project. Through this, the University obtained new equipment for research, awarded scholarships to support full-time research

students, and offered split-degree programmes with foreign universities. Lasting results of this project were the establishment of policies and procedures for research degree programmes, and more importantly, planting seeds of a research culture within the University. In its first year of existence, the FGS has been able to further streamline the administration of research degree candidates to a significant extent, through cooperation with the other faculties, and with the support of modern ICT tools.

The FGS has also taken several initiatives to set up new frameworks for cooperation with the local industry, foreign universities and academia. As a result, the University is now able to offer joint PhD programmes with overseas universities and invite high-calibre academics and industry personnel for short-term assignments. Four such expert visits are either ongoing or scheduled for 2016, in the areas of Transportation Engineering, Robotics and Statistics. The FGS is also in discussion with Sri Lankan high-tech companies for sponsorship of cutting-edge postgraduate research programmes. Such sponsorships will be an important source of research funding for the University in future.

In keeping with current trends in higher education, the Faculty of Graduate Studies now wishes to build on the culture so built and maintained, to become internationally recognized for research in its disciplines of specialization.

# FACULTY OF GRADUATE STUDIES



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# FACILITIES AT THE UNIVERSITY

## THE LIBRARY

The library of the University of Moratuwa is one of the most prominent technology libraries in the country. Its' main areas of specialization are engineering, architecture and information technology.

The university library serves as the local repository of knowledge, the principal gateway to current information and the scholarly records. The library offers both undergraduate and postgraduate students and provides strong support for instruction and research through collections containing hundreds of thousands of books, journals, multimedia and other information resources.

Opening hours of the library are from 7.30 am to 8.00 pm daily throughout the year and books can be borrowed from 7.30 am to 7.00 pm on any day.



## THE COLLECTION

The library currently has over 100,000 books housed in the lending and permanent reference section and special collections of around 3000 are added to the collection annually, It subscribes to over 50 print and electronic journals. The electronic library has online access to a growing collection of very valuable information including four databases, e-theses abstracts, research reports, etc.



The multimedia collection of the library comprises DVD/CDs on various subject areas and is accessible at [www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)

In addition to the above, the library has special collections, namely Diandas Collection (related to transport, highway, etc), Sri Lanka Science and Technology Collection (SLSC), Leisure Corner Collection and Pamphlet Collection (research articles).

The collection which is being continuously developed to support teaching and research activities of the three faculties is accessible via the library website [www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk).

## FACILITIES AVAILABLE FOR STUDENTS AT THE LIBRARY

Facilities available for students include computer laboratories, a user education unit, a computer training room and zones for reading and quiet studies. The university library provides study space for around 400 students at a time, offering a variety of study environments including discussion rooms and individual study spaces. There is also a wide range of research and information services such as circulation of materials, literature searches, reference requests, compilation of bibliographies, inter library loans, photocopying, scanning and many others. Wi-Fi facility is available throughout the building. Further, the students are able to check their library accounts and, renew and reserve books online.

Whatever subjects the students choose to study, the library staff look forward to welcoming students to the library.



# UNIVERSITY MEDICAL CENTRE

The Medical Centre provides care to all students and staff of the university. Students are advised to get registered at the centre early. They should produce their record books or university identity cards when calling at the centre and no student will be examined by a medical officer without his/her record book or the university identity card. Treatment is free to students during their normal academic sessions as well as during examinations.

All new entrants to the university will have to undergo medical examination. All information obtained during consultations, examinations and treatment is kept confidential.

The comprehensive health care provided by the centre includes a preventive and curative service for physical and psychiatric illness. All students are requested to seek the medical officer's advice early. Immunization against tetanus is also carried out at the centre. On the preventive side, steps are taken to control the spread of infectious and communicable diseases. Routine pathological examinations are being conducted in the laboratory at the medical centre.

A day ward and isolation rooms for communicable diseases are available. However there are no in house wards available at the centre.



Consultation hours: 08.00 hrs – 10.45 hrs and 12.15 hrs – 17.30 hrs  
Saturday: 08.30 hrs – 12.30 hrs and 14.00 hrs – 15.30 hrs



# UNIVERSITY SPORTS



Programmes offered by the Physical Education Division promote competitive as well as recreational sports and physical education among the student population. It provides opportunities for students to achieve and maintain their physical fitness and to gainfully spend their leisure time which is very useful for their health. These programmes also seek to foster closer staff student relationships. The division also provides facilities to students to develop their athletic and sports skills locally as well as internationally. At present students can take part in the following categories of sports.



No.	Sport	No.	Sport
01	Athletics (M)	19	Karate (W)
02	Athletics (W)	20	Netball
03	Badminton (M)	21	Rowing (M)
04	Badminton (W)	22	Rowing (W)
05	Baseball (M)	23	Road Race (M)
06	Basketball (M)	24	Rugby Football
07	Basketball (W)	25	Swimming (M)
08	Carrom (M)	26	Swimming (W)
09	Carrom (W)	27	Table Tennis (M)
10	Chess (M)	28	Table Tennis (W)
11	Chess (W)	29	Taekwondo (M)
12	Cricket (M)	30	Taekwondo (W)
13	Elle (M)	31	Tennis (M)
14	Elle (W)	32	Tennis (W)
15	Football (M)	33	Volleyball (M)
16	Hockey (M)	34	Volleyball (W)
17	Hockey (W)	35	Weightlifting (M)
18	Karate (M)	36	Wrestling (M)



# STUDENTS

## WELFARE DIVISION

The Student Welfare Division issues following documents for the benefit of students:

- Letters to various institutions confirming the studentship of the students.
- Forms for internal hall reservations.
- Forms for concessionary railway season tickets.
- Forms to get permission for student activities.
- Progress report for institutions awarding scholarships.

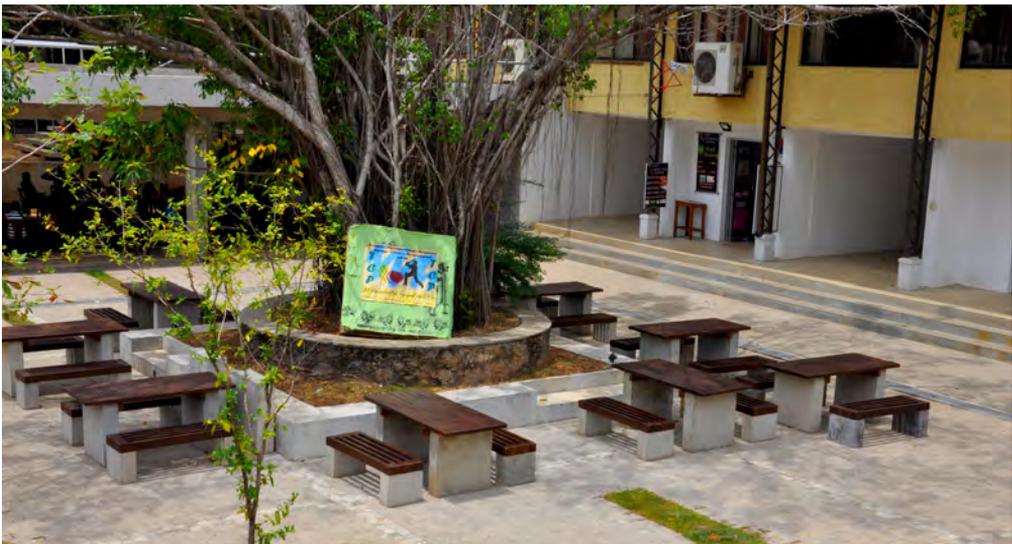


# CAFETERIA AND FOODS CORNER

There are four main canteens and six other sales centers in the university.

- **Canteen (C1)** - located in the new canteen building close to the Old Gymnasium
- **Canteen (C2)** – located in the western wing of Dr. L.H. Sumanadasa Building
- **Canteen (C3)** – at the “L” Block
- **Canteen (C4)** – Hostel Village Canteen
- **Canteen (C5)** – located in the new canteen building close to the Old Gymnasium, upper floor of the **Canteen (C1)**
- **Canteen (C6)** – (Staff Canteen) located in the new canteen building close to the Old Gymnasium, upper floor of the **Canteen (C1)**
- **Canteen (SBS)** – The staff Welfare and Recreation Club operates the Snack Bar (SBS) near the Department of Mechanical Engineering. Refreshments as well as several home needs are available at this Centre.
- **Canteen (MBC)** – The Milk Bar
- **Canteen (SBC)** – The sales center at the Civil Engineering Complex (SBC) is operated by the Civil Engineering Society for the benefit of students and the staff of the department
- **Canteen (SBC 2)** - The sales center at the Civil Engineering Research (SBC 2) is operated by the Civil Engineering Society for the benefit of students and the staff of the department

At these canteens, meals are provided to students and employees at very concessionary rates. The university charges a very nominal rent in order to cover electricity and water expenses. About 4000 consumers are benefits daily by this service.



**Sentra Court**



# STUDENTS

## COUNSELLING UNIT

Students are the most valuable asset of a university. They enter the university with excellent academic credentials and after completing their academic studies they leave the university to become leaders and job creators. It is therefore the responsibility of the university to foster them with care, groom them to have right attitudes and assist them to gain self-confidence, towards helping them to become world-class graduates. In this regard, the Students Counseling Unit of the university plays a vital role. It assists needy students to develop positive attitudes and improve their self-confidence and self-discipline.



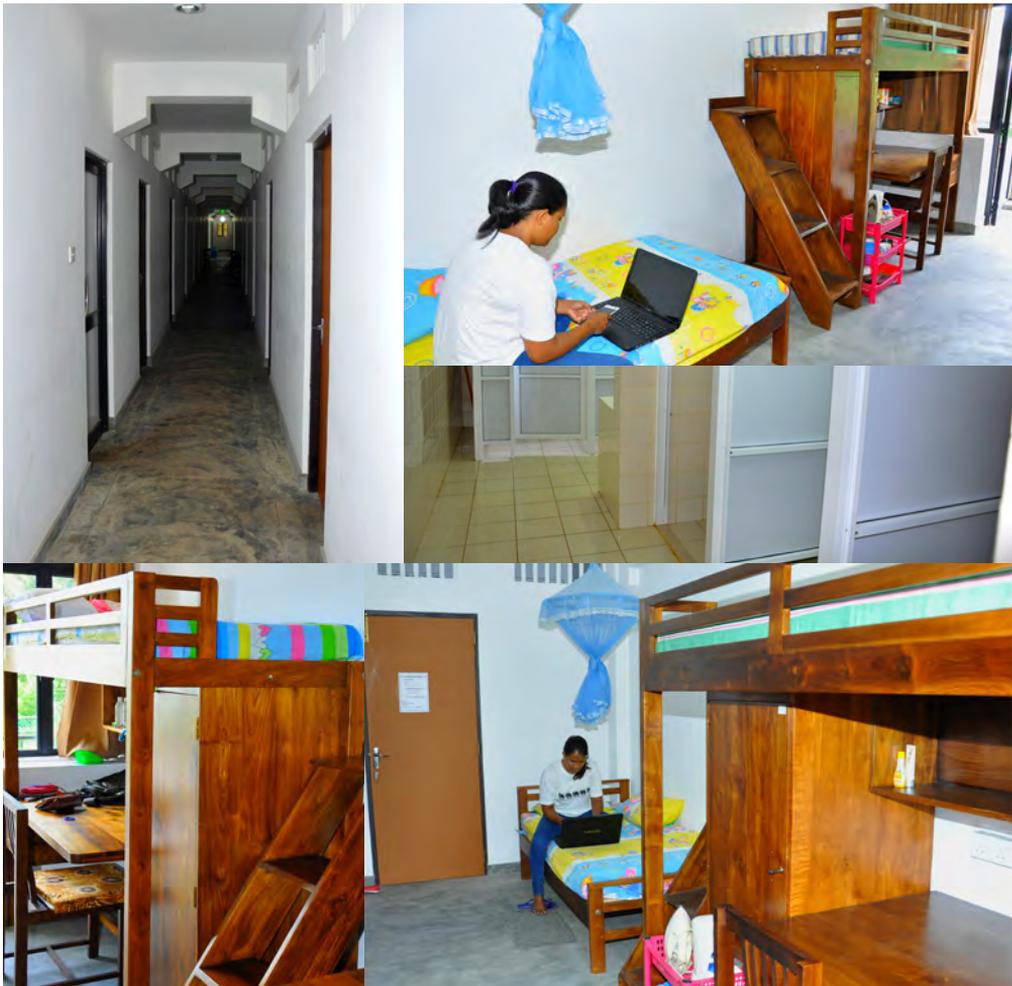
# HOSTEL FACILITIES

The aim of the university is to provide hostels for all the students. However with the increasing number of students getting admitted to the University, existing hostel facilities of the university have become insufficient. Therefore, action has already been initiated to construct a new building complex to provide more hostel facilities to students.



Details of the existing hostels for both males and females are given below:

Hostel	Male	Female	Student capacity	Ext.	General Nos
Hostel office warden@uom.lk	-	-	-	1850 1855	0112640151 0112640156 0113160452
A	√	-	104	-	-
Prof.Patuwathawithana	√	-	244	1854	0112640155
Hostel village	√	-	432	7333	0112640152
RahulaMawatha Hostel	√	-	90	0112637870	-
Prof. Patuwathawithana Stage II	√	-	400	Contraction stage	
B	-	√	120	1864	0113160452
C	-	√	96	1864	0113160452
Nugape	-	√	564	1864	0113160452
<b>Total</b>	<b>1270</b>	<b>780</b>	<b>2050</b>		



# OTHER COMMON AMENITIES

## WUS STATIONERY SHOP

This is a permanent facility managed by the World University Service (WUS) –Moratuwa Branch. The shop caters for all stationery requirements of the students, staff and also stocks items such as drawing instrument sets and calculators.



## WUS PHOTOCOPY BOOKSHOP

This is a permanent facility managed by the WUS –Moratuwa Branch. The bureau caters for all photocopying and binding needs of the students and staff.



## ROTARACT BOOKSHOP

This is a permanent facility managed by the Rotaract Club. The bookshop sells key text books recommended for different courses. Since the library is unable to stock a large number of copies of books that are in demand, students are encouraged to buy their own books for reference.



# BANKING FACILITY

A branch of the Bank of Ceylon (a state-owned bank) is located on new Student Centre Building and is open during working days from 09.00hrs to 14.30 Hrs. In addition, two ATM machines of the Bank of Ceylon and the National Savings Bank of Sri Lanka are installed near the main entrance to the University and operate during all twenty four hours.







Gallery





# Gallery







Gallery

