

UNIVERSITY OF WESTMINSTER



IIT

an investment in life



Undergraduate & Postgraduate **Prospectus**

Contents

Contents

Message from the Vice-Chancellor of the University of Westminster	01
Welcome message from the Managing Director of Informatics Institute of Technology	02
Vision, mission and objectives	03
Sri Lanka	05
Informatics Institute of Technology (IIT)	07
Students' union	09
Facilities	10
Faculty members	13
Industrial placement	14
Annual Cutting Edge exhibition of IIT's work	17
Convocation	19
Success stories of students and alumni	20
The University of Westminster (UoW)	23
Programmes offered at IIT	25
Framework of Undergraduate programmes	33
Admission requirements	34
Process of admission	35
MSc Advanced Software Engineering	37
Admission requirements	43



Message from the Vice-Chancellor of the University of Westminster

The University of Westminster's courses in Computer Science provide a gateway to professional life and personal development for students in England, Europe and internationally. Westminster's graduates continue the traditions established during the last 165 years of innovation and applied learning and they play valuable roles in the development of a global knowledge society.

The Informatics Institute of Technology in Sri Lanka shares a common ethos with the University of Westminster, centered on the commitment to develop students in the knowledge and skills which employers seek

The programmes in Computer Science develop students' independent learning, and provide fresh intellectual challenges each year through the acquisition of new knowledge applied through research and project management.

Westminster's graduates are recognised for their initiative and confidence, communication skills and aptitude for teamwork. Successful students on Westminster's first degree and Masters courses at the Informatics Institute of Technology (IIT) in Sri Lanka will be awarded the same certificate and record of achievement as their fellow graduates on the identical courses delivered in London. In this way IIT's students may have access to new opportunities for work and further study locally in Sri Lanka, in Europe and in international organisations around the world.

I look forward to welcoming you to IIT

Dr Geoffrey Copland
MA DPhil CPhys FInst FRSA
Vice-Chancellor and Rector
University of Westminster

University of Westminster's Patron, Queen Elizabeth II, welcomed by
Vice-Chancellor Dr Geoffrey Copland

Welcome message from the Managing Director of Informatics Institute of Technology

Welcome to the Informatics Institute of Technology (IIT). Over the last 17 years IIT has given Sri Lanka and her Asian neighbours a wonderful opportunity to acquire a full British degree here in Sri Lanka at a much more affordable cost than studying in UK. As pioneers in British education, we have had our courses constantly monitored to ensure that the best academic standards are maintained, so that the degrees obtained whether studying in UK or Sri Lanka, are the same. We have established a reputation as such and we will continue to maintain it.

With our new partner the University of Westminster, London, we aim to continue providing our students with sufficient skills, knowledge and attitudes to meet the challenges of the industry anywhere in the world.

Our committed staff at IIT are looking forward to welcoming you and to make your stay at IIT both memorable and worthwhile.

Dr. Gamini Wickramasinghe
Managing Director
Informatics Institute of Technology





Vision, mission and objectives

Vision

Our vision for IIT is to be an institution of tertiary education of the highest stature.

Mission

Our Mission is to develop professionals, who are creative and highly skilled possessing an international outlook and who are able to contribute to Sri Lanka's and the region's growth, while ensuring the interests of all stakeholders.

Objectives

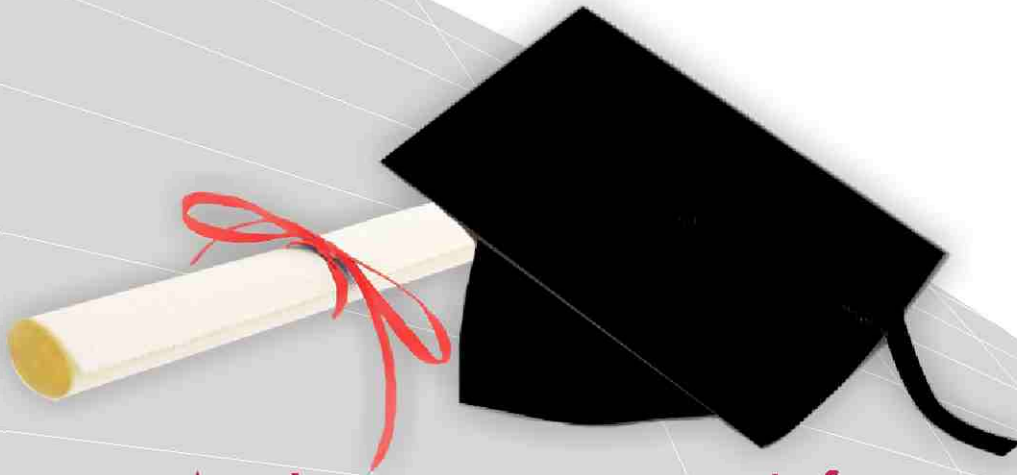
- To develop creative, competent and motivated professionals who are capable of critical thinking and independent life long learning and being receptive to changing needs.
- To develop a team committed towards achieving academic and professional excellence.
- To promote strong links with relevant local and overseas institutions/organisations and facilitate activities of mutual benefit.
- To make a significant contribution to the socio-economic development of Sri Lanka and the region.
- To broaden its image and exposure and enhance its status as a centre Of higher education and professional excellence



Realising your potential

If you are to achieve your full potential in this demanding and rewarding field of Tertiary Education, you must achieve a qualification suitable for the industry of the world.

Informatics Institute of Technology
Is your route to success.
It offers you a high standard of learning
competence and professional practices



An Investment in Life

“Adorned with beauty and abundance is resplendent Lanka” (National Anthem)

Sri Lanka

Sri Lanka the Enchanted Isle, the Golden Isle (Serendib), the Jewel of the Indian Ocean, the Island of Paradise. Whatever name you use, it is hard to disagree with Marco Polo's impression that “this is undoubtedly the finest island of its size in all the world” or Mahatma Gandhi's statement that “the natural scenery I see around me is probably unsurpassed on the face of the earth”.

Sri Lanka has over 1,600 km of beautiful, palm-shaded beaches; warm, pure seas; and colourful coral reefs. There is a rich and exotic variety of flowers and wildlife; over 430 species of bird life; ancient cities and buildings; and a long tradition of conservation. It is a nation of colourful pageants and endearing people.

Sri Lanka boasts a literacy rate of 87%. It is one of the highest in Asia and English is widely spoken and

British degrees. Studying in UK sounds exciting and indeed many enjoy the valuable experience in Britain, but this comes at a very high price.

Wouldn't it be better if Sri Lankans could choose where to live and study for their British degree, and to be able to do so at a fraction of the U.K. Costs Now you have a choice. Here in Colombo. No Sri Lanka is obliged to leave his or her culture to obtain the status of British university education among the most highly respected worldwide. But even more is offered to you by University of Westminster, London you can Select to study any number of the U.K. BSc (Hons) programmes in Colombo or in London.



Sri Lanka

Sri Lanka



For young people from neighbouring nations studying in Sri Lanka has several added advantages. Apart from the short proximity they pay less and feel more culturally or at home. Colombo is a fascinating city with a comfortable blend of East and West; a cosy mixture of past and present. It is a busy modern commercial city with many international banks, a flourishing seaport and the international airport at close proximity. Comfortable accommodation could be found close to IIT at reasonable costs. Many restaurants cater to suit every taste and purse.

For young ambitious man or woman yearning for quality internationally recognised education this is your best choice. Join IIT.

Informatics Institute of Technology (IIT)

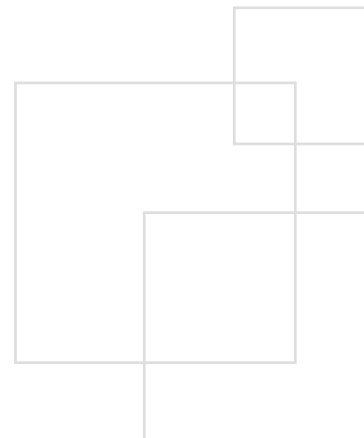


Informatics Institute of Computer Studies (IICS) was Established in 1990. It was an ambitious venture started by Informatics Pvt. Ltd. (IPL) with a vision to produce a new generation of qualified IT professionals, increasingly in demand by the industry.

IICS was registered in 1991 with the Tertiary and Vocational Education Commission under the Tertiary and Vocational Education Act No. 20 of 1990 for Registration of Institutes and Examination Regulations.

IPL entered into collaboration with Manchester Metropolitan University (MMU), the largest non-federal university in the U.K., to conduct the BSc (Hons) in Information Systems and Computing in 1990. This collaboration enabled IICS to deliver the MMU courses in Sri Lanka and award the same certificates awarded by MMU in the U.K. to our graduates as well. The first cohort graduated in 1994.

The next major step was the starting of an international standard Business degree programme, BSc (Hons) in Business in 1995, also in collaboration with MMU. The first cohort of Business graduates were awarded their degrees in 1999.



Informatics Institute of Technology (IIT)

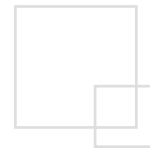
This generated a high demand for more IT and Business professionals, surpassing the capacity of IICS. Therefore, Informatics Institute of Technology was established in 1999 and registered with the Board of Investment of Sri Lanka to set up a full-fledged campus with all facilities for 3000 students. The objectives of IIT are education at undergraduate and post graduate levels, training and research.

Over these years, the BSc (Hons) Degree in Information Systems and the BSc (Hons) Degree in Business offered by us have resulted in more than 1400 students graduating from our institute to-date. The IICS/IIT graduates have gained immense recognition in the IT and Business industries for their skills and they occupy significant positions in public and private sectors.

Currently the Institute has students following, undergraduate and postgraduate programmes.

Our new validating partner; University of Westminster in London, has a long established reputation for innovation and academic excellence. Westminster is the first, modern University to be awarded the prestigious Queen's award for Enterprise two

times in succession. Five undergraduate programmes and an MSc programme are validated by the University of Westminster. They are BSc (Hons) in Computing, Internet Computing, Software Engineering, Information Systems, and Information Systems with Business Management and MSc Advanced Software Engineering.



Students' Union

Education should concern itself with the total person in society.

The Institute is entrusted with the task of perceiving itself as a human organisation within which the students are the most valued component. Hence, every opportunity is provided for them to grow and mature into responsible people, both professionally and personally. In this respect, the Students Union and the Student Liaison Officer play most valuable roles.

Students are members of the Students' Union, which exists to promote their educational, sporting, social and general interests. The Union has three purpose built facilities currently: a swimming pool, a canteen, and a games room. It also has shared use of a large hall on the premises for functions and other group activities. Students teams compete in badminton, cricket and football matches. In addition the Union runs several clubs and produces occasional publications and newsletters.

Special events, such as raising funds for charity, concerts, dinners and Graduation Ball, occur from time to time. But perhaps the major aim of the Union is to provide all its members with constant support and guidance during their years at IIT. Seeking the collaboration of all staff and management, and of the Students' Union, the Student Liaison Officer attempts to build up and maintain an environment and a range of support services to help students derive the fullest possible benefit from their time at IIT.

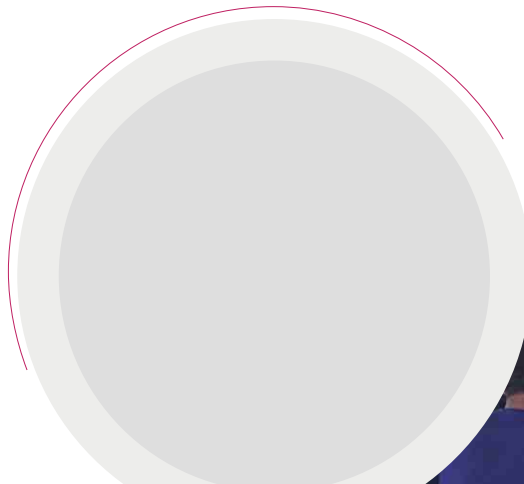
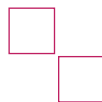
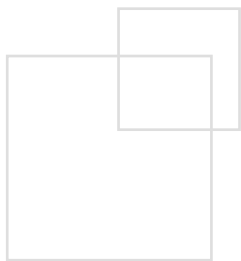


Facilities

The entire Institute building is centrally air conditioned. The Lecture Rooms, Computer Labs, Library, etc., are spread over the five floors of the spacious building.

Lecture rooms

The Lecture Rooms, situated in the 5th, 1st and ground floors are furnished with comfortable chairs and writing tables and equipped with state of the art teaching aids. Besides the lecture rooms, tutorial rooms, conference halls, recreation rooms, indoor games, canteen, etc., facilitate other academic and recreational activities of the students.





Library

The library is located on the 3rd floor, overlooking the Indian Ocean. The well-stocked library is the most rewarding place for every student who is in pursuit of knowledge.

The library collection consists of books, Periodicals, audio visuals and CD-ROM's. the book collection has over 7000 volumes

covering all areas and levels of study. The stock is updated annually and consists of multiple copies of course text together with supplementary and reference material.

The library subscribes to academic and Professional journals and digital resources. It provides students with access to current information and research in the field through corporate membership of other libraries. This has increased the access to information resources.

An effective photocopy services for students is provided by the library in accordance with the copyright laws.

The library accommodates large number of readers at any given time in addition to the discussion rooms which are available to carry out discussions and group studies.

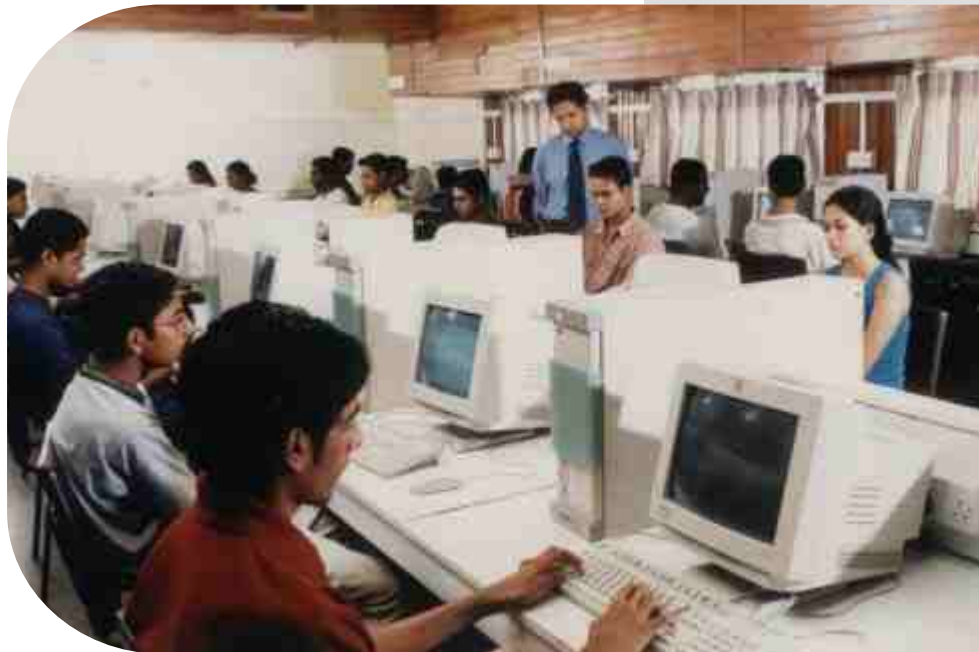
Facilities

Computer Laboratories

IIT has well equipped state of the art computer laboratories which cater for courses conducted by the School of Management and the Computing Department.

The laboratories consist of over 250 high end PCs networked and located in four laboratories employing the most recent advances in the field of networking. Students have access to the internet through broadband connections. The laboratories are open to students from Monday to Saturday. The Cyber Café provides students with additional facilities to browse the internet.

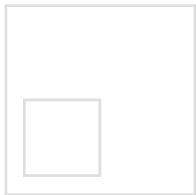
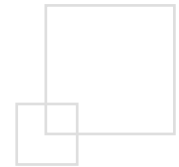
Each student is allocated a storage space on central file servers. Additionally, students can use the printing, Document scanning and CD copying services offered by the laboratory. Additional equipment required by students for special projects and assignments can be arranged on



Faculty members

There are male and female academic staff available to help students on an individual basis outside lectures and tutorials, and involved in both academic and student support activities. All academic staff at the Institute has studied in recognized Universities. (Sri Lanka, UK, Australia, USA, India etc). Many have international work experience and postgraduate qualifications. The Institute's major aim is to ensure that each student receives an education which reaches the high international standard set by the UK universities.

Faculty members



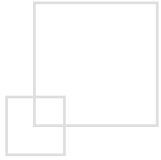
Industrial placement

The one year Industrial Placement, in year 3, gives our degree Programmes the cutting edge. Our students go into the industry as young apprentices and by the time they come back for the final year of the degree programme, they have developed into a mature and confident group of students. Learning from the experts in the industry and doing the job in the real time work environment gives them confidence. Students get an opportunity to apply themselves and put into practice what they have learned in the first two years of study on the degree programme. When they succeed in applying themselves, the students starts to believe in their ability and that brings the best out of them.

The industrial placement programme prepares the students to the needs of the industry. In the final year students make use of their industrial experience and work on industry oriented projects. Most students get an employment offer at the end of the industrial placement period from their respective employers. They go into the final year with a wealth of practical experience and are in a position to be employable as soon as they graduate.



Industrial placement abroad



The Institute was also able to arrange for Industrial Placement of students abroad in countries such as Germany and Norway. Some students from the Computing Department and the School of Management did their Industrial placement with Forschungsinstitut Ange-wandte Software Technology (FAST), a German company. FAST is actively involved in research, innovation and development of software using state of the art technology. FAST, who offer placement opportunities to students from all parts of the world, made special mention about the capabilities of the students from IICS /IIT. Four of the students who had their placement in Germany have been offered permanent employment by FAST.



Industrial placement abroad

Testimonial

"The day finally dawned for me and my batch Mate Arjuna Marambe to take wing to Norway. After having done some 'major' shopping, especially for warm clothing, baggage was full to capacity and I was ready to face the winter for the first time in my entire life. This being the first time that I was leaving my family and friends behind for a long duration of time (one year), I was abit nervous and concerned.

The knowledge and the experience we gained by working with the develop of Marcus Data was immense and with time we be come very close to them and shared are many experiences and 'jokes' with them. Lunchtime in Norway, which ls taken at around in the Morning (with dinner taken at around 5 in the evenings) is the time were all the employees off Marcus Data gather as one bunch in the Canteen to share their many humorous

experiences with each other, Most of the time leads to horrendous laughter.

We were indeed privileged to Experience 'life' in Norway for One ful-year, which meant we experienced the within 'total' life style of Norwegian. We went skiing up in the mountains with the company staff and experienced the many 'family-events' that were held By company which gave us the oppportunity not only the two mingle with the family members of our colleagues, but also the client of Marcus Data. The 'toast' of it all was the 'sailing' that we did in Jostein's sailboat and the company trip to an a island own by Finn.

Sudarshana Jayawardene
Information Systems
Industrial Placement Experience - 2002

Annual Cutting Edge exhibition of IIT's work

Cutting Edge is an exhibition, displaying selected state-of-the-art information communications technology (ICT) projects. These projects are undertaken by students in their final year, as partial fulfilment of the BSc/BSc (Hons) Information Systems degree programme offered in collaboration with University of Westminster.

The exhibition is the culmination of sheer determination and hard work that went into the development of high quality

projects by final year students. Several students who participated in Cutting Edge 2006 were successful in submitting papers to various well recognized forums in Sri Lanka and abroad. A number of these projects have been published by

Selected projects are displayed for public viewing, covering industries such as medicine, e-commerce, mobile communications, entertainment and information technology. The projects portray unique elements on how ICT is applied at various stages of the industry life cycle.



Annual Cutting Edge exhibition of IIT's work

This does not mean to say that the event is targeted at IIT students only. Rather it targets a broad sector of audience ranging from professional practitioners to mobile end-users. It provides a futuristic in-sight into what you can achieve with the power of computers combined with human intelligence. Subject areas that are covered are database systems, distributed systems, artificial intelligence and mobile computing, to name a few.

In addition this exhibition gives prospective students an idea of the depth of studies needed to follow a career in Information Technology. It provides an eye opener for parents who hope to guide their children embarking on a career in computing. Further it provides the industry and IT professionals an insight into novel solutions which enable in achieving a competitive edge. Mingled with grandeur, excitement and novel approaches, Cutting Edge is an event that you do not want to miss.



Convocation

The annual convocation every September is the most important annual event of the Institute. The 2006 Convocation witnessed the graduation of over 120 Information Systems graduates. The convocation is followed by the graduation ball organised by the student body which is held at a leading Colombo hotel. Faculty members as well as past and present students celebrate the success of our students ending with the selection of the Graduation King and Queen.

Success Stories - Students and alumni



“The course content is up to date and brilliantly balanced. I've been able to apply a large portion of what I learned into practice during my industrial placement year. It really adds to the quality of the degree. I enjoyed developing close relationship with my fellow students, researching my areas of interest and articulating my thoughts. My teachers were very supportive with a passion for teaching. I've had a great experience”

Poornima Weerasekara
BSc (Hons) Information Systems

“I was at IIT (then IICS) from 1990-94 and graduated with 1st Class Honours from the first cohort. The foundation and learning experience I received at IIT has been one of the main reasons for my continued career development in the last decade, for which I will always be grateful.”

Sanjeev Jayaratnam
BSc (Hons), MBA, MBCS, Dip. M, C. Eng, CITP



Success Stories - Students and alumni

“Memories of my undergraduate years (91-95) at IICS are of tasteful musical evenings, lasting friendships, inspiring lecturers and valuable academic discussions. Effective alignment of the IICS computing degree programme with British universities has certainly enabled me to pursue an academic career in the UK.

Obtaining a research degree, or contributing to research at an international level, or supervising research students, or membership with specialists international groups and conference committees, are all realistic goals that were achieved due to the foundations laid by IICS”.

Dr Nirmalie Wiratunga
Research Fellow
School of Computing
Robert Gordon University

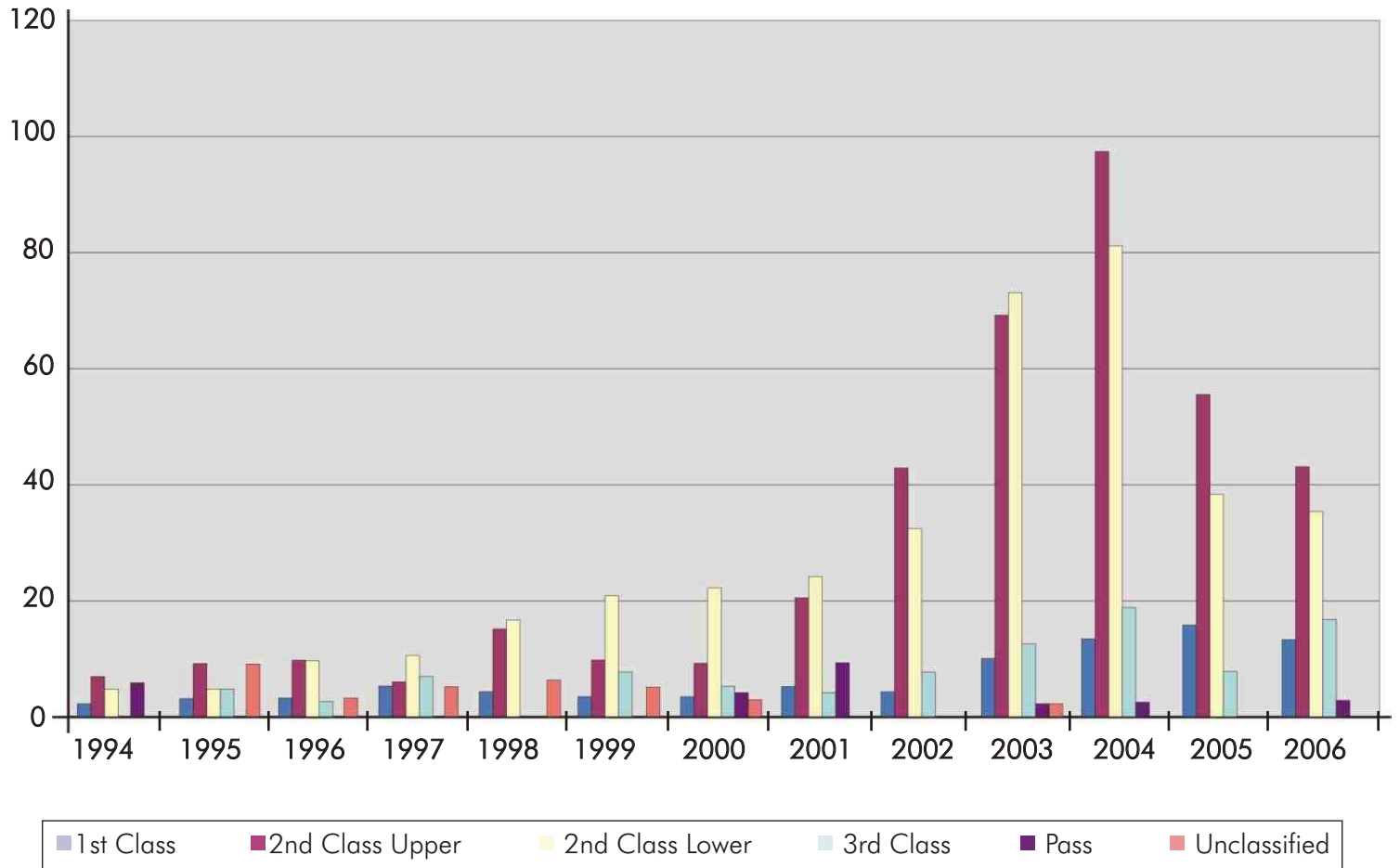


The strong foundation that I was given at IICS has been a constant source of strength and confidence. It has enabled me to secure a very promising career in the IT industry, and will surely open many more opportunities for me in the future”.

Jditha Weliwita MIEE
Associate Software Architect / Manager ISG1 (DU1)
Virutusa Corporation



Graduates Performance

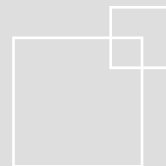


Our Validating Partner the University of Westminster

University's ethos today. Westminster was the first modern University to be awarded the prestigious Queen's Award for Enterprise. This honour has been bestowed a second time in 2005 - and Westminster is the only UK university to have secured this prestigious award twice in succession.

Continuing Professional Development courses are offered in many disciplines and the strategy of enhancing student's employability skills and attributes is encapsulated by the University in Educating for Professional Life.

The University offers a full range of undergraduate and postgraduate qualifications and research degree subjects for study. Students are encouraged to develop skills such as teamwork and leadership for application in many different careers, and to develop the potential for Master's level study..



The University of Westminster has a long-established reputation for innovation, academic excellence and the accessibility of its taught programmes and applied research. Based in the heart of London, the University still occupies its original building and celebrates its foundation in 1838, as the Royal Polytechnic Institute, the UK's first such institution.

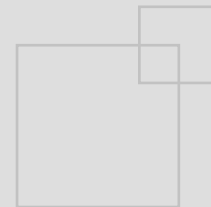
The aims of its founders were to encourage the application of science to industry by exhibition, through research and by educating the workforce of companies and organisations in and around London. The spirit of international collaboration and applied learning are central to the

Our Validating Partner

the Cavendish School of Computer Science

The University of Westminster is one of Britain's largest providers of higher education in Computing. The Cavendish School of Computer Science is located in the heart of London's West End of the Cavendish Campus. The Campus has its own recently expanded dedicated library and state-of-the-art laboratories.

The School offers a comprehensive range of modular degree programmes in subjects ranging from the engineering of computer software systems to interdisciplinary study with a substantial business and management component. These courses have recently been updated and expanded to prepare students for a widening range of careers in which computer systems play a key role. Graduates may find themselves working in any number of jobs ranging from an analyst determining the IT needs of an evolving organisation to a specialised software developer meeting these needs.



Programmes offered at Informatics Institute of Technology

Foundation Programme

Your Pathway to a UK University Degree

Introduction

The Foundation Programme is a comprehensive, flexible and dynamic curriculum where subjects are specially packaged to enable students to pursue their specific career pathways in Business or Computing. It is an intensive programme of study to prepare those without the normal entry requirements for admission to a degree course of University of Westminster.

In designing the course, consideration has been given to the potential academic strengths and weakness of students, as well as to the specific academic requirements of the degree studies at the next level. Great importance is therefore, attached to the monitoring of students' progress and the provision of extra tutorial and specialist support where it is need.

This one-year programme is the best choice for students confident of their chosen path of studies and are committed to attaining the best preparation for a university degree programme at UoW. The course offers an opportunity for fulfilment to many to whom it might otherwise be denied, as well as helping to meet the shortfall in those undertaking business and technologically oriented study to degree level.

Entry Requirements

The entry requirements for the Foundation Programme have been carefully specified. Students who are admitted to the course should have proven academic ability and are able to demonstrate a solid foundation of skills in the science, arts or the commerce streams. They should be able to prove that their standard of achievement in English and Mathematics is of a grade equal to 'C' or higher at the GCE 'O' Level or at an equivalent qualification. Students should have studied a broad range of subjects and have a school-leaving certificate equivalent to a GCE 'O' Level.

Undergraduates Degrees

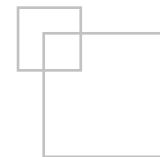
The final decision to offer a particular programme will be determined by the resources available at IIT

- BSc (Hons) Computing
- BSc (Hons) Information Systems
- BSc (Hons) Information Systems with Business Management
- BSc (Hons) Internet Computing
- BSc (Hons) Software Engineering

As the above undergraduate courses share modules to varying extents, there is some flexibility to change your degree later on. Some courses share a common first semester and some a common first year provided you take certain options. Therefore, if you are not quite sure of your choice, you should ask what scope there is for switching programmes after you completed part of your study.

Postgraduate Degree

- Msc Advanced Software Engineering



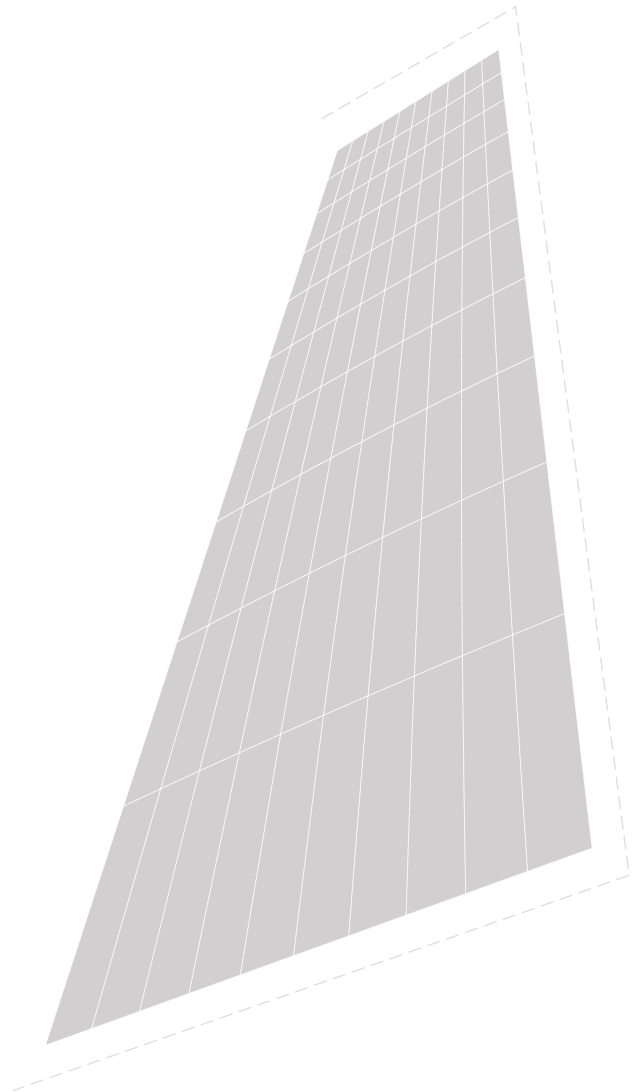
Choosing a Course

Different course within a single academic discipline can offer you quite different learning and employment opportunities. Computing is a particularly wide field covering all aspects of computer systems and their use. In order to choose the appropriate degree course from the many offered you should consider:

- what you enjoy
- what you are good at
- what skills you want to develop
- what you want to know to spend your time doing
- what employment you want to go on to when you graduate.

Our courses are designed to cater for quite different responses to these questions. All courses provide the key skills development required by prospective employers.

The following table shows the sort of activities with which each courses is concerned.



Choosing a Course

Activity/Issue \ Course	Computing	Information Systems (IS)	IS with Business Management	Internet Computing	Software Engineering
How the world of business and management operates		■	●		
Theory and practice of organisations and their IT needs	■	■	●		
Provision and use of information for business purpose	■	●	●		
Working with clients to get their IT needs	■	●	●		
Primarily using software tools rather than programming		■	■	●	●
Modelling the requirements of the system using diagrams and symbols	●	●	■		
Developing multimedia applications	■	●	■	■	■
Designing information products	■	■	■	■	■
Using a computer to do graphical design	●			■	■
Programming networked systems	■			●	
Designing high quality software	●			●	●
Programming software components	●	■		●	●
Understanding in detail how the software works	●			●	●
Understanding the underlying mathematics					■

some relevance ■

major activity ●

BSc (Hons) Computing

It is recognised that the computing industry requires people with specialised skills and also those with a wider perspective on the field as whole. Furthermore, because of the wide scope of applicability of computing, it is not possible to anticipate every combination of skills and knowledge that comprise a balanced and useful programme of study. The philosophy underlying the design of the BSc Computing, therefore, is to combine the study of certain central aspects of computing with a wide range of complementary options.

The focus of the BSc Computing is on the design and development of software applications. In addition to the core area of object-oriented software development, students are able to study a range of other approaches and paradigms, including the development of database systems, internet applications and information systems engineering.

Year 1 (Credit Level 4)

Core modules

- Computer Organisation
- Database Systems
- Discrete Mathematics
- Introduction to Information Modelling
- Introduction to Internet Programming
- Programming Methodology
- Software Development Principles

Plus one option module from

- Business Information Systems
- Modelling in Information Systems
- Systems Software

Year 2 (Credit Level 5)

Core modules

- Database Management Systems
- Object Oriented Design
- Object Oriented Programming
- Software Engineering

Plus four option modules from

- Algorithms and Data Structures
- Computer Graphics
- Computer Systems Organisation
- Event-Driven Programming
- Human Computer Interface Design
- Internet Application Programming
- Network Application Development

Year 3 (Credit Level 6)

Core modules

- Project (double module)

Plus six option modules from

- Compiler Design Techniques
- Concurrent Programming
- Current Issues in Information Systems
- Distributed Business Applications
- Formal Methods
- Functional Programming
- Graphics and Visualisation
- Internet Application Design
- Network Software Design
- Open Distributed Systems
- Operating System Design
- Real-Time and Embedded Systems
- Requirements Engineering
- Secure Languages
- Website Administration & Maintenance

BSc (Hons) Information Systems

The purpose of an information system, as defined by the British Computer Society, is to collect, process and store data, and distribute information for a defined purpose or application using computing technology.

The thrust of this course is to give students a clearer perspective of the current nature and practice of Information Systems and to develop students so that they can work effectively as Information Systems professionals. competences

- Project Management
- Rapid Application Development
- Requirements Analysis

Plus one option module from

- Business Organisation
- Management Accounting & Financial Modelling

Year 1 (Credit Level 4)

Core modules

- Business Information Systems
- Computer Organisation
- Database Systems
- ICT Practitioner
- Interactive Multimedia Development
- Introduction to Information Modelling
- Introductory Mathematics
- Modelling in Information Systems

Year 2 (Credit Level 5)

Core modules

- Database Management Systems
- Distributed Information Systems
- Interactive System Design
- Introduction to Programming

Year 3 (Credit Level 6)

Core modules

- Business Systems Management and Evaluation
- Current Issues in Information Systems
- Designing Information Systems
- Project (double module)
- Software Quality Management

Plus two option modules from

- Distributed Business Applications
- Information System Development Methods
- Knowledge Management

BSc (Hons) Information Systems with Business Management

The purpose of the course is to provide students with knowledge and skills in two disciplines, namely business management on the one hand, and information systems on the other. This satisfies the need of employers for people with a multi-disciplinary backgrounds, able to converse technically in a business environment.

The course is broad based and practical, and will offer you a wide range of career opportunities. It aims to provide on education for people who aspire to become managers in organisations, or who will run their own business related to the knowledge economy.

Year 1 (Credit Level 4)

Core modules

- Business Information Systems
- Database Systems
- ICT Practitioner
- Interpersonal Skills for Business
- Introduction to Information Modelling
- Introductory Mathematics
- Modelling in Information Systems
- Theory & Practice of Business

Year 2 (Credit Level 5)

Core modules

- Database Management Systems
- Introduction to Programming
- Management Accounting & Financial Modelling
- Operations Management
- Organisational Behaviour
- Project Management
- Requirements Analysis

Core electives

- Business Organisation
- Rapid Application Development

Year 3 (Credit Level 6)

Core modules

- Business Strategy
- Business Systems Management and Evaluation
- Designing Information Systems
- Knowledge Management
- Managing Business Organisation
- Project (double module)

Plus one option module from

- Information Systems Development Methods
- Software Quality Management

BSc (Hons) Internet Computing

A new computing paradigm has recently emerged, most apparent in the growth of the Internet. Much computing now takes place in a networked context and relies on access to computer hardware and software resources that are geographically dispersed. Increasingly, businesses are deploying mission-critical software systems on the Internet, and there is every sign that these trends will continue and intensify.

The philosophy of the BSc Internet Computing therefore is to provide students with a thorough education in the fundamentals of computer science and a specialised knowledge of those approaches and technologies relevant to the development of software in a distributed environment, with particular reference to the Internet. Graduates of the BSc Internet Computing will typically be employed in a wide variety of roles related to the Internet and other networked environments. Typical job titles include 'network administrator', 'systems administrator', 'network programmer', or 'webmaster'.

Year 1 (Credit Level 4)

Core modules

- Database Systems
- Discrete Mathematics
- Introduction to Information Modelling
- Introduction to Internet Programming
- IT Essentials
- Programming Methodology
- Software Development Principles

Plus one option module from

- Business Information Systems
- Modelling in Information Systems
- Systems Software

Year 2 (Credit Level 5)

Core modules

- Computer Systems Organisation
- Internet Application Programming
- Network Application Development
- Object Oriented Design
- Object Oriented Programming
- Software Engineering

Plus two option modules from

- Algorithms and Data Structures
- Computer Graphics
- Database Management Systems
- Event-Driven Programming
- Human-Computer Interface Design
- Software Engineering Group Project

Year 3 (Credit Level 6)

Core modules

- Distributed Business Applications
- Internet Application Design
- Network Software Design
- Operating System Design
- Project (double module)

Plus two option modules from

- Concurrent Programming
- Open Distributed Systems
- Real-Time and Embedded Systems
- Requirements Engineering
- Secure Languages
- Website Administration and Maintenance

BSc (Hons) Software Engineering

Software Engineering involves the understanding and application to the development of software systems of engineering principles, design skills, good management practice, computer science and mathematical formalism. The subject makes use of many of the technical sub-disciplines of computer science, programming in particular, but it is primarily concerned with the application of theory in the process of system design and construction. It is the task of the Software Engineer to draw together these separate areas of expertise and bring them to bear upon the requirements of elicitation, specification, design, verification, implementation, testing, documentation and maintenance of complex and large scale software systems.

Graduates of the course will possess knowledge of a range of technical subjects, and the ability to synthesise this knowledge to produce practical solutions to engineering requirements in a wide range of application areas.

Year 1 (Credit Level 4)

Core modules

- Computer Organisation
- Database Systems
- Discrete Mathematics
- Introduction to Information Modelling
- Introduction to Internet Programming
- Programming Methodology
- Software Development Principles

Plus one option module from

- Business Information Systems
- Modelling in Information Systems
- Systems Software

Year 2 (Credit Level 5)

Core modules

- Algorithms and Data Structures
- Computer Systems Organisation
- Object Oriented Design
- Object Oriented Programming
- Software Engineering
- Software Engineering Group Project

Plus two option modules from

- Computer Graphics
- Database Management Systems
- Event-Driven Programming
- Human-Computer Interface Design
- Internet Application Programming
- Network Application Development

Year 3 (Credit Level 6)

Core modules

- Project (double module)
- Requirement Engineering
- Secure Languages

Plus two option modules from

- Computer Design Techniques
- Concurrent Programming
- Distributed Business Application
- Formal Methods
- Functional Programming
- Graphic and Visualisation
- Internet Application Design
- Network Software Design
- Open Distributed Systems
- Operating System Design
- Real-Time and Embedded Systems
- Website Administration and Maintenance

Framework of Undergraduate Programmes

The BSc Honours programmes are structured as a set of modules. Each module is a relatively self-contained unit of study of a particular topic in computer science. A module represents one twenty-fourth of the work required for an Honours degree, and as a rule of thumb can be taken to involve about 150 hours of study.

In the four years' of the full-time Honours degree programme there is the opportunity to undertake a 12 months industrial placement year between Levels 5 and 6 which will give you the practical skills to accompany your theoretical knowledge and give you a competitive edge in the job market.

Modules are valued in terms of credits. Each undergraduate module is worth 15 credits. One year of full-time undergraduate study is equivalent to 120 credits.

Coherence between modules, and the development of a particular theme across a set of modules is ensured by defining core modules.

Students must study and achieve a pass in all core modules to retain eligibility for the named academic award. Option modules may be chosen with academic advice from your tutors. The final selection of option modules which will be offered in any academic year will

be determined by the resources available at IIT. In with Student numbers, students' initial choices, their career plans and potential for postgraduate study will also be considered.

The academic year is structured into two semesters, and with the exception of the Project module, all the teaching and learning for modules on the BSc programmes takes place within a single semester. Coursework assessment takes place within the semester but all examinations are held at the end of the academic year.

Attendance can be either in full-time or part-time mode. In order to be designated as full-time, a student must normally attempt a minimum of 95 credits in the academic session. The normal duration of study for full-time Honours degree students is three years, or four years on the sandwich degree. Full-time students normally take 8 modules, worth a total of 120 credits, from a given Level in each year. Every Honours degree student is required to take the project module at Level 6, which is weighted at 30 credits.

The part time mode may be studied over a duration of five to six years.

Admission Requirements

Students should possess at least a Credit pass in English and Mathematics at the GCE 'O' Level examination. In addition the following criteria in relation to points attained at 'A' level should be satisfied

Students Offering	Minimum
Science subjects	12
Other subjects	16

Points for grades

Students Offering		Minimum	
Grade A	10 points	Grade A	10 points
Grade B	08 points	Grade B	08 points
Grade C	06 points	Grade C	06 points
Grade D	04 points	Grade S	04 points
Grade E	02 points		

- Any other equivalent qualifications will also be considered
- For mature students who lack the minimum formal entrance qualification, relevant work experience will be taken into account in assessing their ability to undertake the course. All such applicants are interviewed and must satisfy the admissions tutor of his/her ability to follow the course

The admissions tutor will decide at the interview whether the student is proficient in English and is capable of following the degree programme.

Process of Admission

An application typically goes through the following steps to become a student at IIT

Information

Application (and in the case of the vast majority of Sri Lankan applicants. Their parents/guardians/sponsors) study the documents provided which sets out the essential information about IIT and about the postgraduate and undergraduate degree programmes offered. It is important to study the information carefully before seeking clarification and more information. Discussions with staff at IIT are also possible. It is this step that should help the applicant (in consultation, as the case may be, with parents/guardians/sponsors etc.) to decide whether a study programme at IIT satisfies one's requirements.

Application

Once an applicant possesses the requisite entry qualifications and can bear the cost he/she should complete and submit the application to the Registrar with copies of all relevant documents, (instructions are on the application form). Copies of any other documents (letter of reference, certificates etc.) which are thought useful may be included. (originals of the documents referred to are not required at this stage) The completed application form will be considered and eligible applicants will be notified the date for the interview.

Interview

The interview is aimed at assessing the applicant's suitability to undertake and successfully complete the degree programme chosen. The candidate should be present at the interview and feel free to discuss about the programme applied for.

After the interview, the applicant will be notified with one of the following decisions:

- accepted on the course
- accepted on the course but advised to follow a short course prior to start
- accepted conditionally (subject to some specified condition being satisfied prior to definitive acceptance).
- "wait-listed" and requested to come back for a scheduled second interview/final decision or
- Asked to undertake further studies and come back a year later

Admission

A candidate who is ACCEPTED ON A COURSE proceeds to formal registration and thus becomes a student of IIT. This ensures a place on the degree programme beginning that academic year. As there is a limit to the size of an intake batch, applicants are advised to register themselves early.

The registration is handled at the Institute (during normal working hours) and requires;

- the completion of the Student Registration Form
- submission of originals of the Birth Certificate, National Identity Card (passport for foreign applicant) and Educational Certificates.
- three copies of a recent (i.e taken not more than six months earlier) passport type photograph (45x35 m.m, B & W or colour), with the name of the candidate written on the reverse.
- Payment of the specified registration fee plus VAT.

New students must then pay the course fees before the deadlines indicated on the schedule of payment applicable for the given academic year.

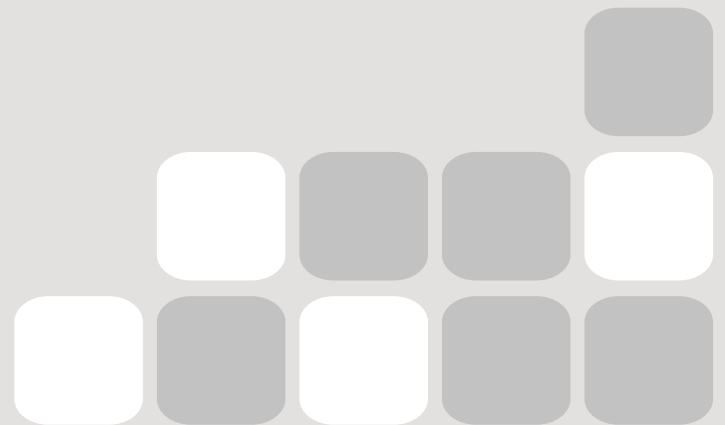
Any candidate who is ACCEPTED CONDITIONALLY (subject to some specified condition being satisfied subsequently) needs to go through a process of conditional registration as soon as possible, in order that a place be tentatively reserved on the specified course. Such conditional registration, and the participation in any orientation programme as specified are a pre-requisite to eventually being permitted to proceed on the Course. In order to register, all requirements as indicated above are applicable, except that the payment of VAT is delayed until definitive “Registration” is permitted and effected.

In order not to forfeit the opportunity of proceeding on the Course, the candidate should communicate to the Institute early, the status with regard to satisfying the conditions imposed. When the imposed condition is satisfied the definitive decision on acceptance on the Course is made; the candidate shall complete the registration formalities by paying VAT on the registration fee.

If the conditions for admission are not satisfied the candidate cannot register on the course. The Registration Fee will not be refunded. Course Fees will be refunded on a pro-rata basis.

Information on the commencement of the course, and where necessary, the Orientation Programmes, will be communicated to the students and it becomes obligatory for them to participate in such programmes and thus begin their student life at the Institute. IIT remains committed to its students and hence the “prospective” students should not hesitate to contact the Institute and request any further information that they may be required by them.

MSc Advanced Software Engineering



MSc Advanced Software Engineering

Rationale for the Course

There is an acknowledged national shortage of IT and computing skills in the workforce. In the specific area of software development, a number of factors contribute to this. Most obviously, the rate of technological change means that an individual's specific knowledge frequently becomes out of date. Secondly, many significant technological developments originate in industry rather than academia, and are not yet firmly embedded in undergraduate curricula. Finally, many people enter the software industry without a specific educational background in computer science and acquire much vital knowledge in the workplace in relatively ad hoc ways.

The rationale behind the MSc in Advanced Software Engineering is to draw on this experience to provide a course, which will cover in depth important aspects of current practice in software development where there is currently a significant skills shortage.

Course Philosophy

The course is aimed primarily at graduates of courses which include a significant amount of computer science and programming, but who wish to deepen their knowledge of the specific areas covered by the course before entering the software industry or progressing to further research. It is also expected to be attractive to people currently employed as software developers who wish to gain perspective by covering material in a more theoretical way than is possible in the workplace.

The philosophy of the MSc Advanced Software Engineering is therefore to provide both graduates and experienced software engineers with a opportunity to enhance and advance their knowledge in areas of current academic and industrial importance. These areas include: database systems; the design and development of software systems; and network computing and distributed software.

MSc Advanced Software Engineering

Basic Modular Structure of the Course

The course comprises of four core taught modules, two optional taught modules, a Research Methods modules and a Project module.

Each of the taught modules is worth 20 credits at Credit Level 7. The Research Methods module id worth 20 credits and the Project module is worth 40 credits at Level 7. Each module comprises approximately 48-60 hours of scheduled teaching and contact time (inclusive of tutorials and workshops but exclusive of assessment). It is expected that students regardless of their mode of study will complement the contact hours with further study and research, to a total of 150 hours work for every 20 credits gained of Level 7

Organisation of the Academic Year

The academic year of the Institute is divided into two semester, as shown below:

Structure of the Academic Year

Week 1	Induction/Enrolment
Weeks 2 - 13	Semester
Week 14	Tutorial Feedback
Weeks 15 - 26	Semester 2
Weeks 27 - 28	Tutorial Feedback
Weeks 29 - 31	Assessment

(Note that the weeks referred to in the above table do not correspond to calendar weeks, but rather are weeks in the Institute calendar when teaching and assessment are being performed. Hence, holidays, such as the Sinhala / Tamil New Year and Christmas vacations are not included.)

MSc Advanced Software Engineering

Modes of Study

The course will be offered in full time or part time mode

Full-Time Mode

The duration of the course is a full calendar year comprising 36 weeks inclusive of holidays from September to June and approximately three months of additional Project work from June to end of August. Examinations are held in May/June.

Part-Time Mode

The part time mode will be conducted over a duration of two years. (details of days on which the programme will be conducted will be notified in due course of time)

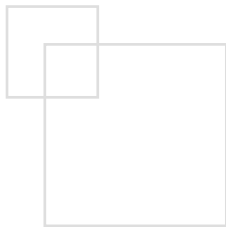
Course Content

The modules that may be offered on the MSc Advanced Software Engineering are listed below: the core module must be taken and passed to qualify for the award of the MSc. The remainder of a student's course of study is made up by selecting from the optional modules.

MSc Advanced Software Engineering

Core Taught Modules

Name	Summary Content
Software Project Management	A group project-based module provides an introduction to the principles and processes of managing the lifecycle of large software development projects.
Web Services	A theoretical and practical introduction to XML-based internet-accessible application interfaces, including descriptions of current standards.
Software Architecture	Discusses the theoretical and practical aspects of software analysis and design, including the physical design of software and the use of COTS (Commercial Off-The-Shelf)
Security	Covers security aspects of wired and wireless networks



MSc Advanced Software Engineering

Optional Taught Modules (Select two modules)

Name	Summary Content
Web Application Development	Describes the design and implementation of Java-based web applications.
Mobile Application Development	The aim of the module is to provide a knowledge of application development on major mobile platforms and develop competence in J2ME applications. This module covers design, development and deployment of mobile applications on a variety of mobile devices such as mobile phones and PDAs
E-Application Development	Covers architectural and general design issues concerning E-applications
Compact Framework Development	This module gives the student the skills and knowledge to develop applications for the Compact Framework, an open source cross-platform virtual operating system. Topics and issues covered in the module include overviews of Windows CE, net and the Compact Framework itself.

MSc Advanced Software Engineering

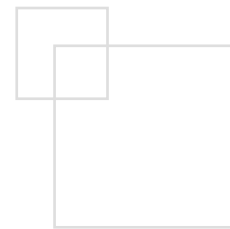
Admission requirements

The course is open to graduates with a First or Second Class Honours degree from a recognised university or equivalent qualification, in a subject related to Computer Science or Software Engineering, joint degrees involving one of these subjects, or possibly other science or mathematically-based subjects that include a significant amount of computer science material. Basic research skills will be required for the project as well as other taught modules. Applications will be advised at the interview of the nature of these requirements.

Candidates are required to show competence in both written and spoken English to the university standard. International students will be required to have obtained one of the following (other equivalent English language qualifications may be accepted):

- GCSE or GCE O Level at grade C.
- British Council/Cambridge International English Language Testing Service (IELTS) minimum score of 6.5 or equivalent

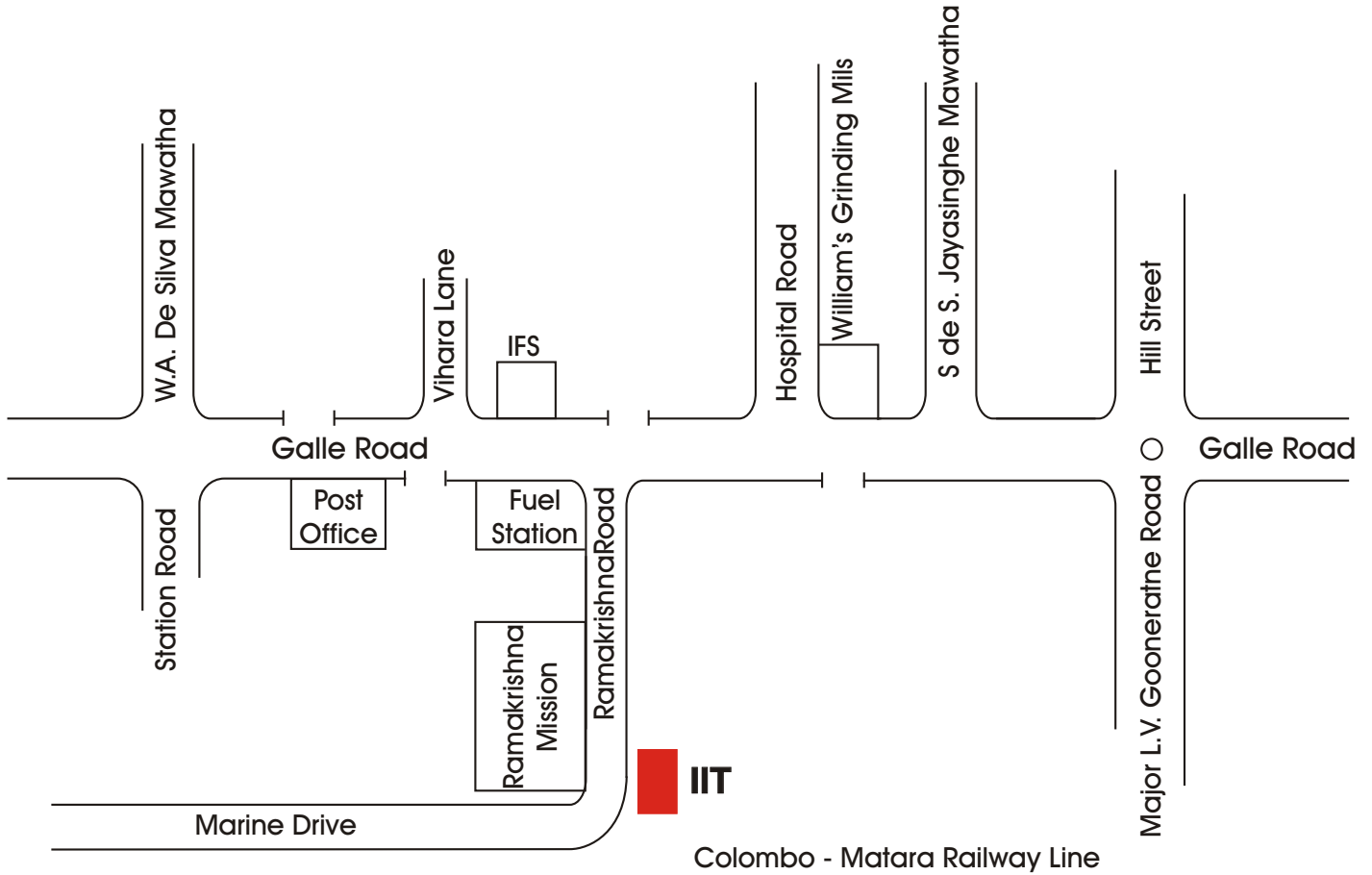
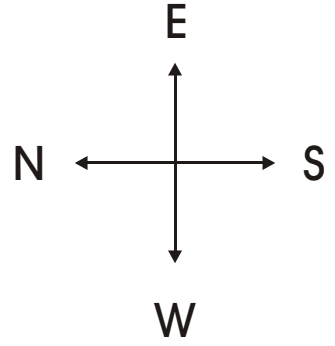
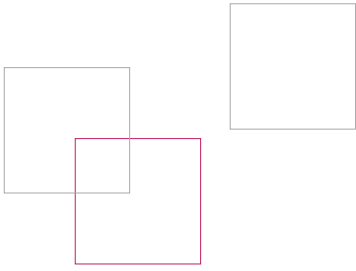
In admitting individual students to the course, however, an important consideration is the student's ability to benefit from the course and complete it satisfactorily. As a consequence, additional factors such as professional development, training, and the current role of applicants may be taken into consideration in individual cases.



Other courses at University of Westminster

If you are interested in other subject areas at undergraduate level, the University Of Westminster in London offers courses in the following areas. Information is available in the Marketing and Admissions Office of the Institute. Please visit us.

- Architecture
- Art and Design
- Asian, Chinese, Cultural and International Studies
- Biosciences
- Building
- Built Environment
- Business and Management (central London, Marylebone)
- Business and Management (north west London, Harrow)
- Communication and Creative Industries
- Complementary Therapies
- Computer Science (central London, Cavendish)
- Computer Science (north west London, Harrow)
- Construction and Surveying
- Creative Writing
- E-Business/Commerce
- Electronic Engineering
- English Literature
- Estate Management
- Fashion
- Film
- Finance
- General Management
- Geography
- Health Care Management
- History
- Humanities
- Human Resources and Personnel
- Information Management and Business IT
- International Relations
- Journalism and Mass Communication
- Languages
- Law
- Linguistics
- Mathematics
- Media
- Music
- Photography and Imaging science
- Planning
- Politics
- Property
- Psychology
- Social Sciences
- Sociology
- Technology and Design
- Tourism
- Urban Design





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