



CATERING TO GLOBAL DEMANDS

FACULTY OF COMPUTING

The Faculty of Computing (FOC) provides world class education and training in Computing and Information Technology, both at undergraduate as well as post graduate levels with a view to producing internationally recognised graduates who will contribute to the industry as well as further the discipline through research. FOC offers a plethora of pathways and specializations for its undergraduates. This vast choice ensures that the academic

component of all interests and dream careers are fulfilled, whilst also promising a holistic educational experience in any discipline of their choice.

FOC places equal emphasis on both theory and practice of all aspects of the computing field, enabling students to have sufficient hands-on experience to take up any working assignment in their respective IT fields at the end of their degree programs. Moreover, FOC provides

top notch research, training and development services that will help students acquire new knowledge along with the best practices in their respective disciplines. FOC aims to be among the foremost center of excellence in Research and Development (R&D) and advance education in computing while taking into consideration national as well as regional requirements for Information and Communication Technology.



STORY OF FOC

FOC WAS STARTED IN 2012 WHEN NSBM WAS OPERATING IN NUGEGODA. AT THAT TIME BSC (HONS) IN MANAGEMENT INFORMATION SYSTEMS OFFERED BY UNIVERSITY COLLEGE DUBLIN WAS THE ONLY DEGREE PROGRAM OFFERED BY FOC. THERE WERE AROUND 100 STUDENTS REGISTERED AS THE FIRST BATCH OF FOC. UGC APPROVED DEGREE PROGRAMS AND UNIVERSITY OF PLYMOUTH PROGRAMS WERE STARTED FROM 2013 ONWARDS. THE LATEST ADDITIONS TO THE UGC APPROVED DEGREE PROGRAMS OFFERED BY FOC IS BSC (HONS) IN DATA SCIENCE WHICH IS STARTED IN 2021.

In 2016 FOC started the IEEE student branch at NSBM to provide their undergraduates the opportunities to meet and learn from fellow IEEE Student and Graduate Student Members and engage with professional IEEE members locally.



Moreover, FOSS, standing for Free and Open-Source Software community was started at FOC as an international movement in the faculty.

Keeping in line with NSBM's vision of producing globally employable graduates, in 2018 FOC pioneered establishing Business Incubation Centers at university premises. At this phase three companies namely, 99x technology Limited, Omobio Pvt Ltd, and Creative Technology Solutions Pvt Ltd commenced operations and offered around 30 fulltime internship opportunities to undergraduates of NSBM.



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Remarkable growth

The FOC has recorded a remarkable growth in several respects from 2012 to-date. It has also partnered with the world top ranking universities, University College Dublin in Ireland, University of Plymouth in UK, and Victoria University in Australia to provide undergraduates with

highly recognized International Degrees. The student numbers have risen from 100 to 3,061 academic staff from 12 to 55, study programmes from 3 (local) to 10 (5 local and 5 foreign) and over 700 resourceful graduates to the industry.

Degree Program	Year									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
BSc in Management Information Systems (Special) NSBM	86	127	53	111	113	73	72	156	81	120
BSc (Hons) in Software Engineering NSBM	0	0	0	0	24	60	34	32	75	125
BSc (Hons) in Computer Science NSBM	0	0	0	0	0	0	14	12	39	54
BSc (Hons) in Computer Networks NSBM	0	0	0	0	0	0	0	2	19	12
BSc (Honours) Software Engineering Plymouth	51	170	221	248	366	244	288	307	400	205
BSc (Honours) Computer Networks Plymouth	0	0	0	0	58	82	59	50	39	24
BSc (Honours) Computer Security Plymouth	0	0	0	0	49	56	76	58	50	39
BSc (Honours) Computer Science Plymouth	0	0	0	0	0	0	0	0	27	34
BSc (Hons) Management Information Systems UCD	615	357	221	81	0	39	0	119	33	0
BSc (Hons) Computer Science UCD	286	261	321	290	34	36	0	0	0	0
BIT in Web and Mobile Application Development VU	0	0	0	0	0	49	54	24	35	10

Figure 1: Student Enrolment per degree program (2016-2021)

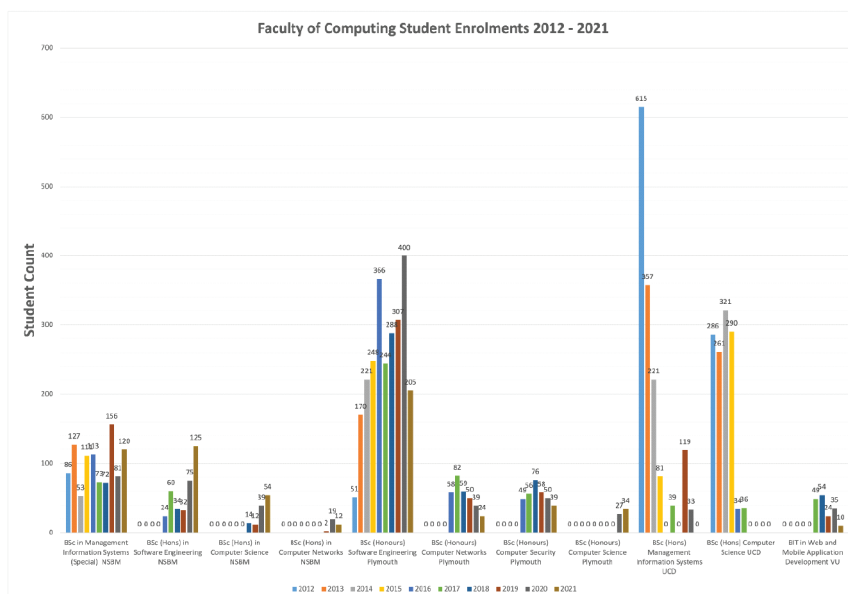


Figure 2: Comparison of student enrolments per degree program (2016-2021)

The FOC is in possession of a rich and diverse portfolio of study programmes. While they are spread over four broad themes (Computer Science and Software Engineering, Information and Systems Sciences, Networks and Security, and Data sciences). Further, more study programmes will be introduced under each theme as well as new themes including cyber security, networking, and information technology. To be in alignment with the rapid advancements taking place in industry and to be in touch with local and global professional bodies, the faculty updates its course modules periodically. In addition, the faculty conducts short term training programmes that address specific industry requirements.

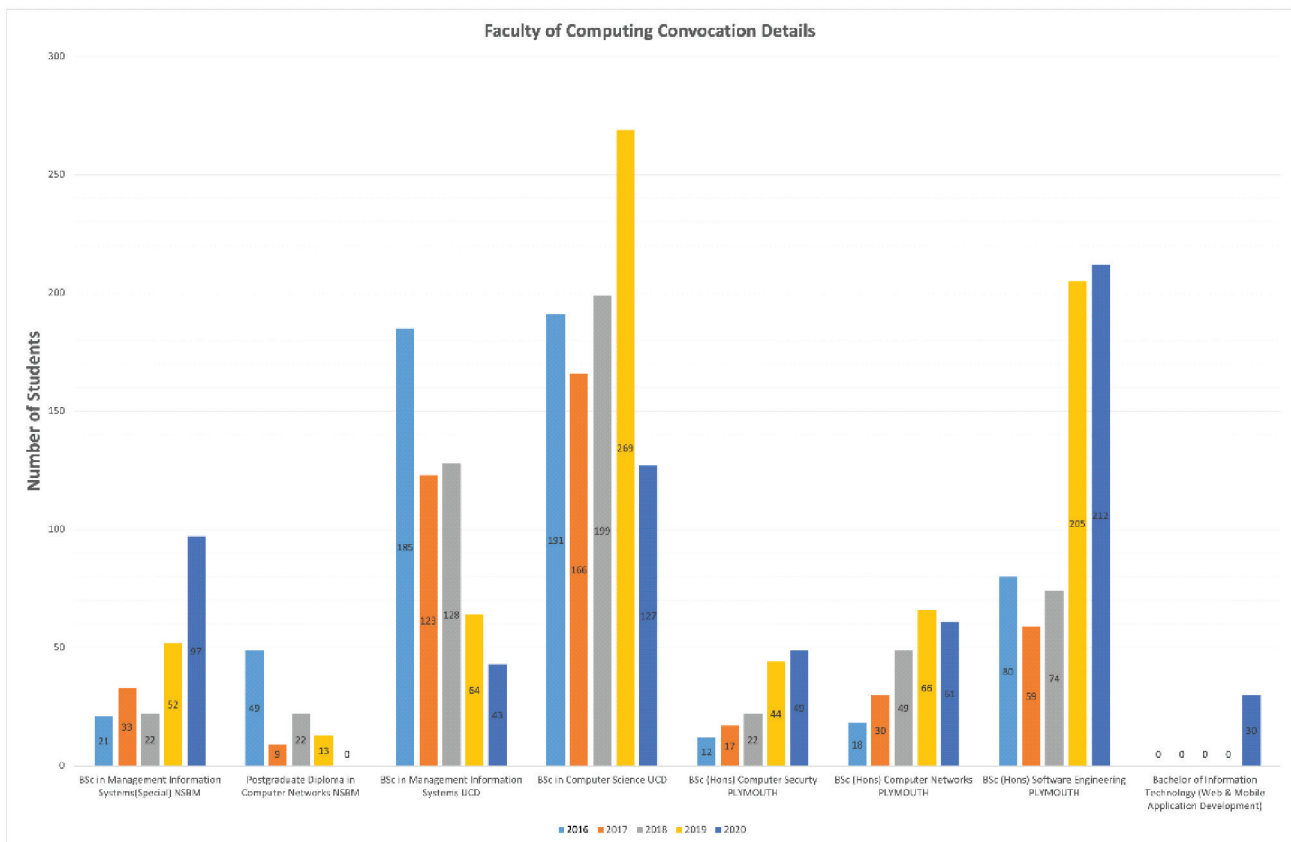


Figure 3: Summary of the graduates produced in each year (2016-2010)

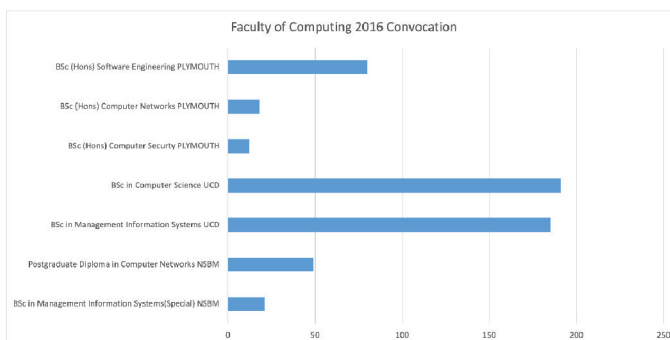


Figure 4: Number of graduates per degree program in 2016

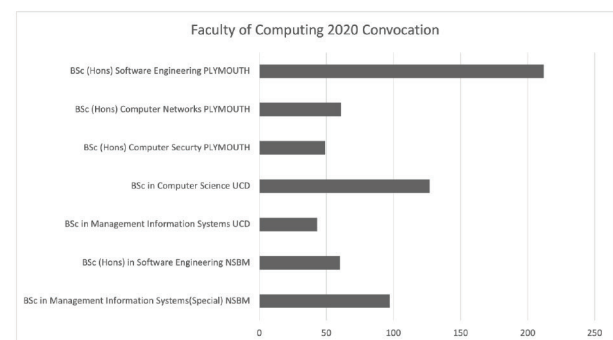


Figure 8: Number of graduates per degree program in 2020



Departments

The faculty consists of four main departments based on the current and future trends of the computing arena and prestige universities structures related to computing discipline. The common foundation and bridging programs are delivered by the faculty with collaboration with all departments.



Department of Computer Science and Software Engineering (CSSE)

The Department of Computer Science & Software Engineering is the largest department of the Faculty of Computing. It offers industry-focused, local, and international degree programs in relation to the most demanding skills in Computer Science, Software Engineering, and Web & Mobile Application Development. From institution inception to today, thousands of high-caliber graduates are produced, and they are employed at leading IT related industries in Sri Lanka and overseas.

Student Activities:

The plethora of activities planned and executed under four primary categories, 1. Technical Skills, 2. Soft Skills, 3. Skills match and 4. High-quality research project and research culture.

Department of Information and Systems Sciences (ISS)

The Department of Information and Systems Sciences is established under the Faculty of Computing,

with a current student population of over 1000+ undergraduates. The core of our curriculum reflects quite well the model created by the Association of Information Systems (AIS), an international society of ISS researchers and teachers. The employment rate of our students is extremely high, and they get right positions in both IT and Management sectors organizations recognizing their expertise in both business and IT domain.

Student Activities:

The academic activities at the department range over a wide field characterized by interdisciplinary elements and are focused on developing and adapting the use of

IT to the needs of people, organizations, and society. Moreover, the DISS conduct several activities apart from the continuous academic delivery to enhance students' engagement, knowledge, and skills in different aspects.

Department of Data Sciences (DS)

The Department of Data Science of NSBM Green University is established with the intention of focusing to be the leader in the discipline of Data Science in Sri Lanka, which includes knowledge contribution from the key areas of Artificial Intelligence, Machine Learning, Deep Learning, Natural Language processing, Data Mining, Statistical Modeling, Simula-





tion, Optimization and Visualization.

The department currently offers the BSc (Hons) in Data Science degree program and will certainly be including more in-demand subjects in the near future. The Data Science program mostly focuses on individuals who are passionate about seeking solutions for societal issues.

In addition to the above, the Department of Data Science targets to deliver a variety of technical understandings of related fields, present the importance of the link between theory & practice, communications & organizational skills, data curation & computational skills, statistical / probabilistic skills and many more.



Department of Network and Security (NS)

Network security is a broad term that covers a multitude of technologies, devices, and processes. In its simplest term, it is a set of rules and configurations designed to protect the integrity, confidentiality and accessibility of computer networks and data using both software and hardware technologies.

Department offers industry-focused local, and international degree programs specialized in the field of networking and security.

Student activities:

As part of the process of making a graduate ready for the industry the department has initiated signing agreements with industry professional bodies. Currently FOC has signed agreement with RedHat as an official Learning center where Students can enjoy 50% reduction on professional Exams and products. Already CISCO and Microsoft agreements are on the pipeline.

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