STUDENT HANDBOOK

2024

Department of Decision Sciences
Faculty of Management Studies and Commerce
University of Sri Jayewardenepura

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The Faculty

Faculty of Management Studies and Commerce

The Faculty of Management Studies and Commerce (FMSC) of the University of Sri Jayewardenepura (USJ) has been the gateway to success for over 50,000 students. In its illustrious history of over 60 years of academic excellence, we have spearheaded the development of management education in Sri Lanka through our programmes designed to meet the needs of its economy and of its business managers. In all spheres, the University's work is closely linked to that of industrial, commercial and academic establishments locally and globally. In this expanding environment, the quality of university education is of paramount importance.

12 academic departments of the Faculty offer more than 250-course units for their respective internal students through 12 special Degree programmes covering a range of Management and Accounting related disciplines. Our research activities are a strong indication of innovation and intellectual challenge that demonstrate our leadership in management education in the country. Therefore, we offer learning, heightened by cutting-edge research and innovation with a rare combination of practical and relevant knowledge and transferable skills, which are essential for teamwork, communication and leadership to build your Career.

FMSC is a dynamic, forward-looking and modern faculty. Irrespective of whether one intends to study at the undergraduate level (internal or external) or postgraduate level, at the FMSC you will find intellectual challenge and stimulation in a highly competitive environment. The FMSC is committed to realise the vision and the mission of the university whilst furthering the management education of the country.

The History

The University of Sri Jayewardenepura was established in 1883 by Reverend Hikkaduwe Sri Sumangala Thero as the Vidyodaya Pirivena at Maligakanda. As a consequence of the University Act No 45 of 1958, the Pirivena was recognized as a university and renamed as the Vidyodaya University of Ceylon in 1959. The University was relocated from Maligakanda to its present location at Gangodawila, Nugegoda in the same year and had a mere student population of 466. It was renamed again as the University of Sri Jayewardenepura in 1978 with the establishment of the area of Sri Jayewardenepura as the administrative capital of Sri Lanka. Today it is the largest university in Sri Lanka in terms of the student population spreading over approximately 55 acres of land with an internal student population of about 10,000. The University consists of seven faculties: Applied Sciences, Humanities and Social Sciences, Management Studies and Commerce, Medical Sciences, Engineering, Technology, and Graduate Studies.

The university commenced the first programmes of study in the area of management in 1958/1959 academic year by offering two-degree programmes in Business Administration and Public Administration under the Department of Economics, Business and Public Administration. Under the reorganization of the university system in Sri Lanka in 1972, the Faculty of Management Studies and Commerce (FMSC) was established having two departments, namely, the Department of Management Studies, and the Department of Commerce. Gradually new departments such as Accounting and Finance, Marketing and Human Resources Management and new degrees programmes were added to the faculty until year 2001. The restructuring programme implemented in 2001 formed 10 departments on the basis of academic disciplines to serve as service departments. A service department is a department which is identified with a specific functional area of business, whose staff members are solely from that specific area of expertise, and which offers courses from its own area of expertise for all the degree programmes offered by the FMSC. All degrees are offered by the FMSC, and each department will serve the needs of all the degree programmes by offering courses from its functional area.

Currently, the FMSC offers twelve bachelors' degree programmes as shown in Table-1 with the response to the acute deficiency of trained professional managers and entrepreneurs in the country. All these programmes are regularly evaluated by the Quality Assurance and Accreditation Council of the University Grants Commission of Sri Lanka

Table 1:Degree Programmes Offered by the FMSC

Academic Department	**Degree**
Accounting	BSc Honours in Accounting
Business Administration	BSc Honours in Business Administration
Business Economics	BSc Honours in Business Administration in Business Economics Degree Programme
Commerce	BCom Honours Degree Programme
Decision Sciences	BSc Honours in Operations and Technology Management
Estate Management and Valuation	BSc Honours in Real Estate Management and Valuation
Finance	BSc Honours in Finance
Human Resource Management	BSc Honours in Human Resource Management
Information Technology	BSc Honours in Business Information Systems
Marketing Management	BSc Honours in Marketing Management
Public Administration	BSc Honours in Management (Public)
Entrepreneurship	BSc Honours in Entrepreneurship

The Department and the Degree Programme

Operations Management involves the tasks such as improving quality of manufactured products or services, selecting and implementing appropriate technologies, increasing productivity, managing projects, planning and scheduling productions, and constructing models to facilitate decision-making to improve profits or reduce costs

The BSc in Operations and Technology Management (Special) Degree Programme fulfils the requirements of the Level 6 of Sri Lanka Qualification Framework (SLQF-2015) with 121 credits of teaching and learning workload. The graduate profile of the degree programme is illustrated in Figure 1 in consistent with the main domains of learning introduced by the SLQF-2015. The Operations and Technology Management Degree Programme is designed to mould students into thriving managers with excellent problem-solving skills, analytical thinking, communication and the implementation of cutting-edge management principles and technologies. These skills are vital in dealing with operational problems faced by managers in manufacturing, services and public organizations in the corporate world.

Aims of the Degree Programme

In consistence with the Subject Benchmark Statement in Management developed by the Quality Assurance and Accreditation Council of Sri Lanka, the main aims of the BSc Honours in Operations and Technology Management Degree Programme are:

a) To produce a knowledgeable, well-accomplished, skilled and contended student with the appropriate attitudes to face the challenges in achieving excellence with factual thinking, creativity, innovation, and research with appropriate entrepreneurial ability of national and international relevance in the field of Operations and Technology Management.

b) To produce readily employable graduates with appropriate managerial knowledge in the field of Operations and Technology Management together with required skills and attitudes.

c) To develop a range of transferable skills in students that will be of value for employment and entrepreneurial pursuits.

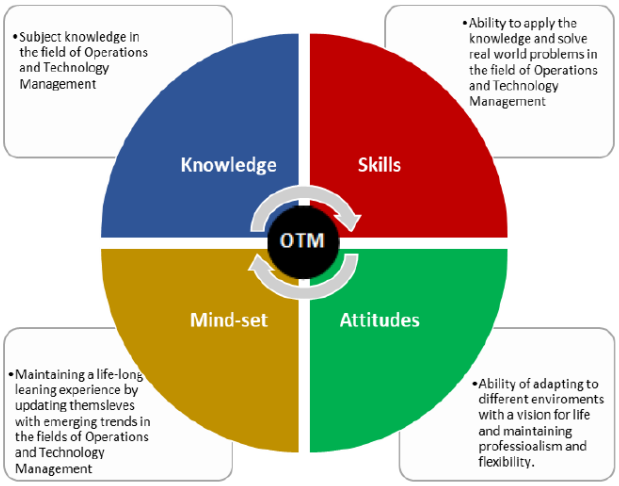

Figure 1: The Graduate Profile

d) To provide students with analytical skills and an ability to develop simplified frameworks for studying the real world.
e) To provide training within an intellectually sound physical and social environment to achieve excellence in Operations and Technology Management skills.
f) To develop a student to achieve the status of a leading consultant and a provider of advanced consultancy services to the public and the private sector for improving productivity and quality of goods and services.
g) Contribute to the government policy-making process and national development in building a production-based economy in Sri Lanka.

Programme Learning Outcomes

In order to create a graduate with adequate knowledge, skills, attitudes, and mind-set in the field of Operations and Technology Management, the programme is designed to achieve 06 specific programme learning outcomes (PLOs). Thus, at the successful completion of the BSc Honours in Operations and Technology Management degree programme, a student should be able to:

PLO 1 - Demonstrate knowledge and skills that are required for the competent practice of Operations and Technology Management while expressing sufficient knowledge around other general functions.

PLO 2 - Practice effective skills in written and oral communication using appropriate technologies to effectively collaborate and negotiate with business clients, colleagues, and other stakeholders.

PLO 3 - Demonstrate leadership and teamwork skills in performing business activities.

PLO 4 - Apply creativity and problem-solving skills together with current knowledge to generate solutions and make sustainable decisions under a dynamic environmental setting.

PLO 5 - Develop awareness of the importance of ethical, sustainable, and legal aspects of business activities.

Graduate Snapshot

Manoj Mahanama

Manager- Risk & Quality/ Technical - PwC Sri Lanka

"As a student from the first intake of the Operations and Technology Management degree programme, I strongly believe that studies carried out for this degree contributed to my career progression exponentially. It's a strong foundation in terms of understanding and applying the principles of Operations Management in any organization (production/ service) comprehensively while improving business communication and leadership skills. If I relate my studies (both degree and professional qualifications) with what I'm currently pursuing at work, I certainly recommend 'BSc. Operations and Technology Management (Special) Degree' as a smart choice among other options for any student who is interested to progress on the career ladder with a right mix of skill set in this dynamic business environment."

PLO 6 - Demonstrate skills in self-directed, self-updated learning and positive attitudes towards continuing personal, professional, organizational, and societal well-being.

Achievement of the 06 programme learning outcomes helps the graduated student to stand on the four domains mentioned in the graduate profile (Figure 1).

Programme Curriculum

The curriculum of the BSc Honours in Operations and Technology Management degree is designed to fulfil SLQF Level 6 with 120 credits which includes an internship training programme and a research study. The programme covers four academic years of learning where an academic year consists of two semesters. Evaluations are based on both continuous assessments and semester-end examinations. Table 2 illustrates the list of course modules being offered during four academic years along with other relevant information.

Table 2: Programme Curriculum

Course Code	Course Title	Status	Credit Hours	Credits
Year I - Semester I				
BUS 1370	Principles of Management	Core	150	03
DSC 1370	Business Mathematics	Core	150	03
ITC 1370	Information Technology for Business	Core	150	03
PUB 1270	Socio-Political Environment	Core	100	02
LAW 1270	Legal Environment	Core	100	02
BCC 1370	Business Communication I	Core	150	03
Total No. of Credits — Semester I				16
Year I - Semester II				
HRM 1370	Human Resource Management	Core	150	03
DSC 1371	Business Statistics	Core	150	03
BEC 1370	Microeconomics	Core	150	03
ACC 1370	Financial Accounting & Reporting	Core	150	03
BCC 1371	Business Communication II	Core	150	03
Total No. of Credits — Semester II				15
Total Credits for the First Year				31
Year II - Semester I				

BEC 2370	Macroeconomics	Core	150	03
FIN 2370	Financial Management	Core	150	03
MAR 2370	Marketing Management	Core	150	03
DSC 2370	Operations Management	Core	150	03
ACC 2370	Management Accounting	Core	150	03
BCC 2270	Practical Communication for Operation Management	Core	100	02
Total No. of Credits — Semester I				17
Year II - Semester II				
ITC 2372	Business Analytics	Core	150	03
ENT 2375	Entrepreneurship and SMEs	Core	150	03
BUS 2371	Organizational Behaviour	Core	150	03
DSC 2371	Supply Chain Management	Core	150	03
DSC 2372	Technology Management	Core	150	03
BCC 2175	Effective Writing for Academic Purposes	Core	50	01
Total No. of Credits — Semester II				16
Total Credits for the Second Year				33

Year III - Semester I				
DSC 3370	Operations Research	Core	150	03
ITC 3371	Management Information Systems and ERP Applications	Core	150	03
BEC 3370	Managerial Economics	Core	150	03
DSC 3371	Data Analysis for Managers	Core	150	03
DSC 3372	Quality Management	Core	150	03
Only one subject from the following elective course list				
HRM 3371	Employee Safety and Health Management	Elective	150	03

DSC 3373	Project Management	Elective	150	03
Total No. of Credits — Semester I				18
Year III - Semester II				
DSC 3375	Research Methodology for Operations Management	Core	150	03
BUS 3379	International Business Management	Core	150	03
DSC 3376	Logistics and Transportation Management	Core	150	03
ITC 3377	Digital Business Management and Enterprise Applications	Core	150	03
DSC 3377	Advanced Operations Research	Core	150	03
DSC 3378	Operations System Design and Management	Core	150	03
Total No. of Credits — Semester II				18
Total Credits for the Third Year				36
Year IV - Semester I				
BUS 4370	Strategic Management	Core	150	03
DSC 4370	Service Management	Core	150	03
DSC 4371	Operations Planning and Control	Core	150	03
DSC 4372	Personality and Skill Development	Core	150	02
Only one subject from the following elective course list				
DSC 4173	Business Forecasting	Elective	50	
DSC 4174	Business Intelligence Management	Elective	50	01
DSC 4175	Data Analysis Methods in Research	Elective	50	01
Total No. of Credits — Semester I				12
Year IV - Semester II				
DSC 4677	Research Study in Operations Management OR	Core	600	06
DSC 4644	Research Project in Operations Management	Core	600	06

DSC 4645	Internship*	Core	300	03
Total No. of Credits — Semester II				09
Total Credits for the Fourth Year				21
Total Credit Value for the Programme				121

**In case, a student is not in a position to participate in the internship programme due to reasons such as health issues or disabilities, the department will make arrangements to cover the required number of credits by two elective courses.*

Description of Courses

Year 1

BUS 1370: PRINCIPLES OF MANAGEMENT

This is an elementary course which aims to provide a comprehensive introduction to the key facets of an organization, its environment, the process of management and new trends in Business Management. Along with an introduction to the historical evolution of management, the course facilitates participants to gain a basic knowledge of the concepts, models, theoretical foundations of management, and the role of management in organizations and society. Thereby, the course provides the students with profound knowledge and management skills vis-à-vis planning, organizing, leading, controlling and organizational decision-making while making them socially responsible towards the environment. The knowledge gained through this course will be beneficial for participants to follow their degree programme successfully.

DSC 1370: BUSINESS MATHEMATICS

This course, as the first course in Mathematics, introduces students to basic principles, laws and rules necessary to develop an overview of application capabilities of the subject matter in the field of business and economics. Business Mathematics covers functions, differentiation of functions, maxima and minima of functions, partial derivatives, integration, and area under curve and between curves and mathematics of finance. This course also includes the applications of differentiation and integration in business and economics. Under the applications of differentiation, topics such as profit maximization, cost minimization, and marginal analysis are discussed. The major topics covered under applications of integration include marginal revenue and marginal cost, consumer's surplus, producers' surplus, total change in revenue, etc.

Graduate Snapshot

Nisansala Sewwandhi

Senior Executive-Planning – Printcare Group

"The Operations and Technology Management Degree Programme helped me to successfully perform in my career through the skills in supply chain management, operations planning and controlling, data analysis with SPSS. I am also a winner of university colours for Volleyball in 2013 (Silver) and 2014 (Gold) as a result of my engagement in sports apart from regular studies"

ITC 1370: INFORMATION TECHNOLOGY FOR BUSINESS

Information technologies and systems are transforming the business environment, and most of us are connected to them in multiple ways. The course provides theoretical knowledge and practical skills relating to information

technology and information systems. The theoretical module discusses the importance of information systems, elements of information systems, and applications of information systems for organisational effectiveness and efficiency. The practical module provides the knowledge and operational skills in word processing applications, spreadsheet applications, presentation applications and online communication technologies which are frequently required in an organizational environment.

PUB 1270: SOCIO-POLITICAL ENVIRONMENT

Socio-political environment and profit-oriented business are inter-dependent. In one hand, business are influenced by the socio and political forces while on the other hand, socio-political environment is influenced by the businesses. Accordingly, this introductory course unit is designed for the Management undergraduates to gain fundamental understanding about social and political environment in which every business operates. As prospective professionals and citizens who will interact with the societal and political institutions, it is necessary for an undergraduate to learn civic, social and political dimensions. This course facilitates learners to identify and respond to various social trends and changes in the political milieu, focusing on the substance of culture, socialization, social trends, social institutions, government, democracy, and interactions between different agents in the society. Further, it discusses the government mechanism which is currently being practiced in Sri Lanka.

LAW 1270: LEGAL ENVIRONMENT

Legal Environment is a core subject offered by the Legal Studies Unit for first-year undergraduates of the Faculty of Management Studies and Commerce. Upon completing this course, undergraduates are expected to be in a position where they can appreciate the varied effects of different areas of law and be adequately prepared to face legal issues they may encounter

throughout their careers. For this purpose, the course is designed under three major topics i.e. Introduction to Law, Legal System of Sri Lanka, and Law of Obligations which together cover a spectrum of laws affecting businesses. The course incorporates new legal developments in important fields such as white-collar crimes and anti-bribery & corruption to train undergraduates to understand their roles and responsibilities within the ever-changing business environment. A sound knowledge of the legal environment is required to effectively eradicate uncertainties in conducting business and management. Arming students with the ability to manage legal risks when making decisions at different organizational levels is the main objective of this course. The course is further aimed at encouraging undergraduates to make ethical decisions in their future work environments to ensure more disciplined economic development within the country. Undergraduates will hone their skills of logical reasoning and problem-solving for better evaluation of legal, regulatory, and ethical concerns and be able to incorporate the knowledge gained from this course into their business and managerial decision-making.

BCC 1370: BUSINESS COMMUNICATION I

This course aims to help students reach the level of Band 4/5 of the UTEL. Upon completion of the course, students should be able to construct both simple and complex sentences accurately, express their views meaningfully in brief discussions and telephone conversations, obtain required information from auditory texts, read and extract information in texts for a variety of purposes, write short texts and business letters.

HRM 1370: HUMAN RESOURCE MANAGEMENT

An obvious interdependence exists between our society and organizations that produce goods and services in order to fulfil our needs. The standards of living and even survival of people in society depend on the goods and services of the organization. Thus, any society/nation wants organizations that need people to achieve

organizational objectives. Human Resource Management (HRM) is managing these people in organizations. The main objective of this course is to provide a systematic and rational understanding of HRM, both conceptual understanding and job-oriented practical understanding. It focuses on a systematic and scientific approach to the analysis and handling of issues/problems in HRM with special reference to the Sri Lankan context. The main areas covered are introduction to HRM, organization of the HR department, job design, job analysis, human resource planning, recruitment, selection, hiring and induction, performance evaluation, pay management, training and development, employee movements, management of discipline, safety, health and welfare administration, grievances handling and management of labour relations.

DSC 1371: BUSINESS STATISTICS

This course provides an introduction to the fundamental concepts, principles and methods of Business Statistics. The topics include descriptive techniques, probability theory, probability distributions and inferential techniques. The major topics discussed under descriptive techniques include data collection, presentation of data, organization of data and statistical summary measures. Three important theoretical distributions, namely, Binomial, Poisson and Normal distribution are discussed under probability distributions. The major topics under inferential techniques include sampling and sampling distributions, estimation and hypothesis testing. Correlation and regression theories are also introduced in this course.

BEC 1370: MICROECONOMICS

This basic course is designed to introduce the microeconomic theories, tools, and methods of analysis that are useful in the study of various economic issues in micro-level decision-making. _is is a compulsory course that covers the intermediate theory of demand and supply, theories of consumer behaviour, short-run and long-run cost and its behaviour, production in the short run and the long run, market structures and competition, factor market for labour, general equilibrium, and welfare. At the end of the course, students will be able to explain microeconomic concepts and apply microeconomic principles in day to day and business decision-making. The prerequisite for this course is Business Mathematics.

ACC 1370: FINANCIAL ACCOUNTING AND REPORTING

This course aims at developing students' knowledge of accounting standards and understanding of their application in the preparation and presentation of financial statements of a corporate entity. The areas covered are overview of financial accounting and reporting; conceptual framework for financial reporting; reporting information through financial statements; fair value accounting; accounting for impairment of assets; overview of accounting for assets; accounting for property, plant and equipment; intangible assets; investment property; borrowing cost; liabilities; leases; revenue and overview of consolidated financial statements. An understanding of the financial accounting content covered in the G. C. E. Advanced Level (A/L) Accounting subject is essential to follow this course.

BCC 1341: BUSINESS COMMUNICATION II

This course aims to help students reach the level of benchmark Band 5/6 of the UTEL. This course introduces the students to language skills required in different business situations. Upon completion of this course, students should be able to participate in business meetings confidently and effectively, communicate effectively in a variety of situations, take down notes from auditory texts, read and respond to texts for a variety of purposes, write short formal texts and business letters, and use presentation techniques effectively and make brief presentations.

Year 2

BEC 2370: MACROECONOMICS

This basic course provides students with a comprehensive understanding of the aggregate economic system. This is a compulsory course which covers the topics of concepts of aggregate demand and supply, national income and product measures, consumption and investment, supply side economics and its applications, use of fiscal, monetary, exchange rate policies to guide the economy, employment, and inflation. It also encompasses macroeconomic analysis in both closed and open economy, with income-expenditure, IS-LM and modern approaches. At the end of this course, macroeconomic concepts, measurements and issues, the sectoral composition of an economy and the interrelationships among the various macroeconomic variables in the economy. Pre-requisites for this course are Business Mathematics and Microeconomics.

MAR 2370: MARKETING MANAGEMENT

This is an introductory core course which aims at providing students with the knowledge on concepts, theories and application in the area of marketing management. The areas covered are role and importance of marketing in a business and a society; marketing philosophies; marketing environmental analysis; consumer behaviour; segmenting, targeting and positioning strategies; and marketing programme development. This course requires prior knowledge of BUS 1340- Principles of Management.

DSC 2370: OPERATIONS MANAGEMENT

This course introduces the students to key concepts, principles and design techniques of the uses of the field of Operations Management. Interactions and relationships with parallel management activities are also demonstrated in order to cultivate a general understanding of the field as a totality. Major topics covered include operations strategy and competitiveness, product design and process selection, total quality management, capacity management, layout planning, job design, work measurements, supply chain management, inventory control, and just-in-time manufacturing.

Graduate Snapshot

Mohomad Altaz Abri
Merchandiser – MAS Bodyline

"I'm currently employed as a Merchandiser at MAS Bodyline. I handle E-commerce brands including renowned brand Amazon. Previously, I worked at Hela Intimates as a Supply Chain Analyst. The Operations and Technology Management Degree Programme gave me an edge over others by giving the skills of analytical ability to derive data, lean manufacturing, effective project management through critical path analysis, and effective supply chain management."

ACC 2340: MANAGEMENT ACCOUNTING

This introductory level course provides basic knowledge and skills in relation to Management Accounting. It will enable students to understand salient principles, concepts and practices in Management Accounting as well as to develop requisite skills. The areas covered are: overview of Management Accounting; cost concepts, classifications and estimation; cost assignment; costing methods; Cost-Volume-Profit (CVP) Analysis; short-term decision making; capital investment decisions; budgeting; and standard costing.

ITC 2372: BUSINESS ANALYTICS

Current business organizations expect their employees to master the science of analysing data to find out patterns that will help them to develop business strategies. Analytics as a decision-making approach has been used by big corporations, governments, entrepreneurs and almost everyone else to generate insights by unearthing patterns

and decoding data. It is a process of transforming data into actions through analysis and insights in the context of organizational decision making and problem-solving. This course provides knowledge on Business Analytics that covers business problem formulating, analytics problem framing, data selection, methodology selection, model building, model validation and deployment. Through this course, students get theoretical knowledge and practical exposure to offer innovative solutions to business problems.

ENT 2370: ENTREPRENEURSHIP AND SMES

This is an introductory level course on basic concepts and theoretical foundations on the concept of Entrepreneurship and Small and Medium Scale Enterprises (SMEs). It discusses the meaning and definitions of entrepreneur, entrepreneurship and intrapreneurship, the nature characteristics and behaviour of the entrepreneur, entrepreneur's role as a leader in an enterprise, the role of entrepreneur in the economy, influences on entrepreneurship development. Moreover, the course aims at developing awareness among the students on the specific features of SMEs, especially in the Sri Lankan context. This involves a broad discussion of business environment of SMEs in Sri Lanka, problems encountered by Sri Lankan SMEs, overcoming them and current issues in SME sector.

BUS 2371: ORGANISATIONAL BEHAVIOUR

Organisational Behaviour (OB) is a self-reliant discipline that encompasses the knowledge of the already established disciplines, such as Psychology, Sociology, Social Psychology, Anthropology, and Political Science. With the knowledge gained from varied disciplines, Organisational Behaviour provides a systematic approach to understand, predict and manage human behaviour at work. The Course aims at developing individuals who possess knowledge and skills for their own employability, either locally or globally, as well as for managing people in the World of Work. The Course consists of major areas in OB, such as individual differences in behaviour, organisational culture, motivation, managing stress, interpersonal and group behaviour, power and politics in organisations, leadership and organisational misbehaviour. With the knowledge imparted within the Course, the learners will be able to understand, predict and manage the complex human behaviour within organisations for them to become successful managers.

V**FIN 2370: FINANCIAL MANAGEMENT**

This introductory finance course is designed to familiarise the student with the role of financial management in maximizing the value of the firm. Students will gain familiarity with the functions of finance, and the institutions and instruments that carry out these functions in the current financial marketplace. The course primarily encompasses corporate finance. This course provides a basic understanding on: scope and environment of financial management, time value of money, risk and return, securities valuation, capital structure and leverage, capital budgeting and working capital management.

BCC 2270: PRACTICAL COMMUNICATION FOR OPERATIONS MANAGEMENT

Practical Communication for Operations Management, taught in Second year, focuses on improving both written and spoken communication skills essential at workplace for the undergraduates of the BSc Honours in Operations and Technology Management Degree Programme. The main objective of the course is to equip these undergraduates with the relevant competencies required, especially to make effective decisions, in their specific fields in the industry. Accordingly, the participants will learn and practice intra and inter organizational communication genres such as emails, telephoning, reports and meetings mainly through class discussions, pair/group work and simulations. The evaluation will be carried out through continuous assessments.

DSC 2371: SUPPLY CHAIN MANAGEMENT

This course is an introduction to the supply chain concept and explores the management of supply chains to improve an organization's overall supply efficiency. Further, it develops an understanding of key drivers of supply chain performance and their inter-relationships with strategy and other functions of the company such as marketing, manufacturing and accounting. Other concepts included are the definitions of supply chains, identification procedures, an overview of methods, processes, and systems used in the operation of supply chains, and the applications of methods, processes, and systems to improve supply chain performance.

DSC 2372: TECHNOLOGY MANAGEMENT

This course introduces technology as a key resource that needs to be properly managed for achieving competitive advantage, profitability, and sustainable development of an organization as well as the development of a country. It presents the fundamental concepts, theories, and methodologies required to plan, acquire, deploy and exploit technologies and innovations in a firm. Furthermore, the course offers a basic understanding on various forms of technology transfer and organizational learning and knowledge management. Through interactive lectures and a variety of assessments, this course provides opportunities to the students to apply theories and methodologies learned to suggest feasible solutions to real-world technology related problems of firms and countries.

BCC 2175: EFFECTIVE WRITING FOR ACADEMIC PURPOSES (DSC)

Effective Writing for Academic Purposes, taught in Second Year, Second Semester, focuses on improving academic writing skills, essential in both academic and professional settings, of the undergraduates of the BSc Honours in Operations and Technology Management Degree Programme. _us, the aim of this course is to introduce the participants to the standard practices and/or further develop their written communication required as undergraduates in the university and later, as professionals in the industry. _e course covers topics such as Basics of Effective Writing, Presenting Data in Writing, Academic Essays and Executive Summary Writing delivered through a student-centered approach. The evaluation will be carried out through continuous assessments.

Graduate Snapshot

Nadee Pathmaperuma
Business Development Executive – Mack Air, John Keells Group

"Since completing my degree in 2016, I have commenced employment as the Business Development Executive at Mack Air, the Airline Division of John Keells Group. Being in the Airline Industry, my day-to-day job involves in providing high-quality services to all stakeholders of the company. The Operations and Technology Management Degree presented me with the strongest foundation for understanding and growth in my career. The best of the Operations & Technology Management Degree program, in my opinion, is, definitely the lecturers and the high quality of lectures. It has given me the confidence and the knowledge to effectively and actively contribute to the resolution of challenges in my company. I have thoroughly enjoyed my time as a student of the Department of Decision Sciences, and I am forever grateful for the quality education that I received."

Year 3

DSC 3370: OPERATIONS RESEARCH

This course introduces key concepts, principles and techniques of Operations Research that are essential to make better covered in this course are Linear Programming, Transportation Model, Assignment Model, and Network Analysis. The basic objective of this course is to provide the participants with a conceptual and practical knowledge of important Operations Research (Management Science) topics and concepts that are useful for real-world management decision-making. This course

emphasizes on the conceptual understanding and practical use of Operations Research techniques rather than memorization of the mechanics of solution procedures.

DSC 3371:DATA ANALYSIS FOR MANAGERS

This course emphasizes understanding, interpreting statistical information and using it to form sound judgments in business situations. It covers both descriptive data analysis and inferential data analysis. It includes data analysis techniques such as One Sample mean tests, two samples mean comparison tests, ANOVA, simple and multiple regression in addition to basic descriptive level data analysis. It also covers non-parametric methods. Statistical software will be taught to perform above mentioned data analysis.

DSC 3372: QUALITY MANAGEMENT

Quality Management is a comprehensive and fundamental rule or belief for leading and operating an organization, aimed at continually improving performance over the long term by focusing on customers while addressing the needs of all stakeholders. It is both a philosophy and a set of guiding principles that represent the foundation of a continuously improving organization. The bottom line of TQM is results: increased productivity, efficiency, customer satisfaction/delight, and world-class performance. is course will present the various TQM frameworks, concepts, and quality improvement tools necessary for implementing the quality culture that characterizes world-class organizations of the 21st century. We will, therefore, explore the key actions necessary for transforming business and not-for-profit organizations into world-class organizations that deliver ever-improving value to their customers, clients, and constituents.

BEC 3370: MANAGERIAL ECONOMICS

This course is an extended analysis of Microeconomics and Macroeconomics, which aims to provide students with an advanced knowledge on application of economic theory and decision science tools in in-firm managerial decision making. This is a compulsory course with the main subject areas of demand analysis, demand estimation and forecasting, advanced production and cost analysis, market structures, game theory and strategic behaviour, pricing practices and business and government decision making. At the end of the course, students will be able to comprehend the importance of economics in businessdecision making, explore the dynamic decision environment of a firm and apply quantitative and qualitative economic tools for decision support in order to achieve organisational objectives. Pre-requisites of this course are Microeconomics, Macroeconomics, Business Mathematics and Business Statistics.

ITC 3371: MANAGEMENT INFORMATION SYSTEMS AND ERP APPLICATIONS

Information technology has changed from a minor corporate support function to a primary driver of corporate profitability. Information technology is fundamentally changing the businesses and the way they operate. Production, distribution, and control of information has become the primary driver of today's economy where information systems play a critical role. Integrated systems such as Enterprise Resource Planning (ERP) systems have become the primary source of information for most of the organizations. Therefore, understanding the use of such integrated systems and the effects of information technology and information systems to individuals, businesses, and the society are of paramount importance. This course is aimed at providing hands-on experience on the use of ERP systems and insight and knowledge on the effect of different technologies and systems on individuals, businesses, and society. Special attention is drawn as to how organizations can use these technologies and systems to optimise its performance and gain competitive advantage, while mitigating the risks associated with them. The course will equip the students with essential knowledge and exposure related to the use of

technologies and systems so that they would become effective business managers and leaders in today's technology rich organizations.

DSC 3373: PROJECT MANAGEMENT

This course explains the importance of effective project management and introduces fundamental tools and techniques available for project selection and managing project scope, costs, risks, communications, and stakeholders. Through interactive lectures, computer practical sessions, in-class problem solving, and the feedback given on them, it develops students' competencies and skills required for planning, executing, monitoring and controlling projects. Experts' experience and knowledge shared in guest lectures and group/individual assignments expose students to real-world problems and traits of effective project managers. Furthermore, this course discusses contemporary topics in the project management field and case studies introducing customized tools and technique used by firms, in order to ensure students' ability to adapt easily with global trends.

HRM 3371: EMPLOYEE SAFETY AND HEALTH MANAGEMENT

The success and progress of any organization largely depends on the quality of the human resources it has and managing soundly the safety and health of employees which ensure the constant availability of high quality human resources. is is a specialised course that provides theoretical knowledge and practical aspects of employee safety, health and well-being in an organizational context and the main objective of the course is to provide a deep conceptual understanding as well as a practical understanding with regard to employee health and safety management. is course covers important aspects such as occupational health and safety practices in organizations, Factories Ordinance, Laws relating to Health and Safety, Industrial hazards and risks, occupational accidents, occupational diseases, occupational stress, temperature, food safety, alcoholism, poisoning, an effective safety and health programme, first aid, safe disposal of waste, safety audit, statistical analysis, assessment of the effectiveness of health and safety management and safety awards in Sri Lanka.

DSC 3375: RESEARCH METHODOLOGY FOR OPERATIONS MANAGEMENT

This is a hands-on course designed to impart education in the foundational methods and techniques of academic research in a business context particularly in the field of Operations and Technology Management. Students would examine an be practically exposed to the main components of a research framework, i.e. problem definition, research design, data collection, statistical data analysis, report writing and presentation. The course would cover both qualitative and quantitative methods. Once equipped with this knowledge, students would be well-placed to conduct discipline research under supervision in a management subject of their choosing. In addition to their application in an academic setting, many of the methodologies discussed in this course would be similar to those deployed in professional research environments, such as those found in market research firms or corporate departments of strategy or marketing.

DSC 3376: LOGISTICS AND TRANSPORTATION MANAGEMENT

This course offers a broad understanding on the effective management of logistics and transportation in organizations under the purview of supply chain management. It takes an in depth look at each of the key elements of logistics including inventory, warehousing and transportation with a specific emphasis on the tools and techniques available for design and implementation of a suitable logistics strategy and transportation alternatives for a firm. This course extends its scope into important trending topics such as outsourcing, sustainability, and humanitarian logistics. e group/individual assignment and case studies provide opportunities for the students to

analyses various real-worldlogistics problems and suggest suitable solutions through the application of appropriate tools and techniques. Furthermore, this course introduces recent trends in the field through the discussions on new technologies and the impact of disruptive technologies such as Internet of things, 3D printing, and autonomous vehicles on the logistics and transportation activities in firms.

DSC 3377: ADVANCED OPERATIONS RESEARCH

This course introduces key concepts, principles and techniques of Operations Research that are essential to make better decisions to the students. Major topics covered in this course are Dynamic Programming, Decision theory, Inventory Model, Goal Programming, and Replacement& Maintenance Analysis and Queuing theory. This is an advanced course in OR. It aims at introducing the students to some operational research methods that are used in the systems approach to Management, so as to provide them with the requisite tools for the mathematical representation of particular emphasizing the roles of uncertainty and risk.

DSC 3378: OPERATIONS SYSTEM DESIGN AND MANAGEMENT

Operations system is the system that is responsible for creation of products and in particular, the transformation of input resources to the desired output. This course aims to develop students‘ understanding of the issues and dynamics associated with the design and management of modern operations systems of both manufacturing and service organizations. Therefore, this course explains the techniques available for the effective design and management of operations systems. Topics include design of production and operations layouts, job designs, work measurements, automation and robotics. Applications of information systems to design are also explored in the course. Special attention is paid to lean manufacturing systems during this course.

BUS 3379: INTERNATIONAL BUSINESS MANAGEMENT

This is an integrated course that provides the knowledge in doing business across the cross borders. The course is designed as a culmination of knowledge and skills from all management-related subjects learnt in the previous phases of the Degree Programme and how that knowledge could be profoundly applied in order to exploit the opportunities of globalisation and to successfully engage in overseas expansion. The major areas covered in this Course include analysis and understanding the international and global environments, global opportunity and threat assessment, risk analysis and overseas market selection, international expansion, market entry and portfolio management strategies, international trade theory, government and regional influences with respect to international business management. It also focuses on the ongoing and upcoming trends in global business management.

ITC 3377: DIGITAL BUSINESS MANAGEMENT AND ENTERPRISE APPLICATIONS

This course is intended to equip the students, who are going to be future managers, with required knowledge and skills to help them navigate their organization towards digital business, by analysing the market it operates and various other environmental factors. A key feature of this course is to identify and review key management decisions and strategies required by organizations to transform it to a digital business. The course will also highlight the process through which those decisions are taken. Students will also learn how to enhance the competitiveness of an organization by deploying innovative digital technologies throughout an organization and beyond, through links to partners and customers and promotion through digital media. Considering the vital role played by ERP systems in today’s digital businesses, the course provides a hands-on experience on several important modules of an ERP system. Further, the students will be exposed to important digital marketing

applications such as search engine optimization, website content creation and management, and personalised marketing.

Year 4

DSC 4370: SERVICE MANAGEMENT

The contribution from the service industry to the world‘s economy is flourishing and becoming dominant. However, increasing globalization, technological advancements, and increased customer expectations create complex market structures and tighten competition in the marketplace. The intent of the service management course is to provide knowledge and skill to cater to the emerging requirements of designing, executing, managing and sustaining of technology-based service offerings practices across the globe. Regardless of sector, every level of employees in organizations required to have a service orientation, but a greater responsibility has shifted to middle and senior-level management. us, this course will provide knowledge of blending operations, marketing, technology, people, and information to achieve a distinctive competitive advantage in services while providing a foundation for creative entrepreneurial opportunities. Once equipped with this knowledge, students would be able to design services, map & manage service process/encounters and technology, capacity and facility planning, service recovery, innovations, managing customer quality/- experience and etc, in the global landscape of services.

DSC 4371: OPERATIONS PLANNING AND CONTROL

This course aims to provide students with knowledge and skills required to design and manage planning and control systems for manufacturing and service organizations. It provides an overview of the relationship of production planning and control to the operations management function. The content of the course deals with translating a sales forecast into a viable production plan to coordinate, execute and control the activities of an operation to ensure that the organization‘s goals are met in a cost effective manner.

DSC 4272: PERSONALITY AND SKILL DEVELOPMENT

This course encompasses the major perspectives of Personality, including psychoanalytic, humanistic, cognitive, dispositional, and behavioral. It is designed to facilitate the students to look at their own personality through theoretical lenses via research findings as well as experiential learning and self-reflection. All the lecturers are delivered by experts in specific fields related to personality and skill development and the course coordinator will provide required guidance. Ultimately the course expects to facilitate undergraduates to bring out the best in their personalities while moldings soft skills and thereby paving the way for their success.

BUS 4370: STRATEGIC MANAGEMENT

This is an advanced and capstone course that draws upon knowledge of previous courses delivered at the first, second and third phases of the Degree Programme. e purpose of this Course is to deliver a holistic understanding of corporate and business strategy. As such, it ties previous disciplines together at a strategic level, in determining the strategic direction of organisations in the context of the broad general and immediate competitive environment. Thereby, the Course exemplifies how successfully these strategies could be executed to ensure long term business survival and growth. The emphasis of the Course will primarily be on the analysis of the external and internal environment of various organisations and industries using appropriate models, frameworks, theories and approaches. Students will be provided with multiple perspectives to view organisations or industries while guiding them to make the appropriate choice of future direction and alternative strategies in order to gain and retain competitive and corporate advantages.

DSC 4173: BUSINESS FORECASTING

Business environments are rapidly changing in today‘s world and hence the adaptability of situations would be the key success of any business in the world. Evaluating and identification of critical changes in the future are vital and it will reduce the risk of decision making in the complex situations. This course covers the practical use of econometric and statistical techniques applied in the business forecasting. Building and evaluating simple time series models and causal models will be the focus of this course.

DSC 4174: BUSINESS INTELLIGENCE MANAGEMENT

The decision makers in today‘s VUCA environment are taking extremely risk and complex decisions that can be addressed by numerous possible courses of action. Evaluating these alternatives and gaining insight from past performance is the essence of business decision making. This course is designed as an approach to Business Analytics, an area of business administration that considers the extensive use of data and facts for rational and agile decision making. While business intelligence focuses on data handling, queries and reports to discover patterns and generate information associated with products, services and customers, business analytics uses data and models to explain the performance of a business and how it can be improved. is course discusses how to employ a systematic approach in analysing business issues and narrate proactive decision making. Additionally, to provide students an understanding of using statistics as a tool of managerial decision making where it applies.

DSC 4175: DATA ANALYSIS METHODS IN RESEARCH

This course continues the previous course (DSC 3371: Data Analysis for Managers) with some additional analytical techniques, which are essential for research data analysis. It includes data analysis techniques such as Multiple Regression Analysis with a residual analysis, effects of Moderating and Mediating variables, Binary Logistic Regression analysis, and Factor analysis with validity and reliability tests for the data related to Social Science applications.

DSC 4376: DATA ANALYSIS FOR MANAGERS

This course emphasizes understanding, interpreting statistical information and using it to form sound judgments in business situations. It covers both descriptive data analysis and inferential data analysis. It includes data analysis techniques such as One Sample mean tests, two samples mean comparison tests, ANOVA, simple and multiple regression in addition to basic descriptive level data analysis. It also covers non-parametric methods. Statistical software will be taught to perform above mentioned data analysis.

DSC 4677: RESEARCH STUDY IN OPERATIONS MANAGEMENT

The purpose of this course is to provide an opportunity for the students to learn the essentials of conducting academic research. In this course, the students are required to conduct an independent research study on a topic selected from any area under the broad discipline of Operations and Technology Management. The students conduct their research study under the supervision of a lecturer from the Department of Decision Sciences. A series of presentations are arranged to facilitate the process of continuous feedback on each student‘s progress in the research study, from a panel of lecturers including the supervisor. At the end of the course, the students are assessed based on the quality of the dissertation submitted and the performance at the viva voce examination.

DSC 4678: RESEARCH PROJECT IN OPERATIONS MANAGEMENT

This course helps students to put the knowledge and skills acquired from their degree courses into practice and to apply suitable tools and techniques to suggest solutions for Operations Management issues in the industry. In the industry project, the students are required to analyses an Operations Management related problem in an

organization and to provide with a solution for the selected problem. The students may address a problem in the company where they work for the internship training. The students conduct the project under the dual supervision of a lecturer from the Department of Decision Sciences and a practicing manager from the area of Operations Management in the selected organization. A series of presentations are arranged to facilitate the process of continuous feedback on each student‘s progress in the project, from a panel of lecturers including the student‘s academic supervisor. At the end of the course, the students are assessed based on the quality of the project report submitted and the performance at the viva voce examination.

DSC 4679: INTERNSHIP

The objective of this course is to provide students with an opportunity of exposure to the real world of work. They are expected to work in the Operations/Technology Management Department of a manufacturing or service organization. Even though the department provides every support needed, it is the responsibility of the student to find a suitable placement. At the end of the course students are expected to present a report based on the experience gained and face a viva. e department assigns a faculty member for counselling on matters relating to the internship and ideally the organization appoints a mentor from the organization.

Teaching and Learning

The first year of the programme is common to a majority of the degree programmes in the faculty and the courses are taught following a common structure. These courses include lectures, assignments, and practical sessions (if relevant). Due to the large intake (around 1200 a batch) the faculty divides the students into groups of 100-150 students and conducts parallel sessions for 4-5 groups. In order to maintain the consistency in teaching and learning process in the common programme, a coordinator is appointed for each subject by the corresponding department and subject meetings are conducted throughout the semester in a periodically. From the second year onwards, the department offers courses related to the Operations Management, Technology Management, and Decision Sciences disciplines while acquiring services from other departments for all other supportive and skill-based disciplines. Course materials for all academic years are made available in the faculty’s Learning Management System (LMS) and for certain courses, continuous assessments and mid-semester examinations are also conducted through the LMS. Apart from the teaching and assignment workload hours, students are expected to allocate a required amount of time for each course to cover the corresponding amount of notional hours. These requirements and the other relevant information are available in course outlines.

In the fourth year, students are expected to do a research study in Operations and Technology Management under the supervision of a supervisor appointed by the department. Students are also expected to do an internship training at an organization (service or manufacturing) to achieve industrial exposure from the field of Operations and Technology Management. Guidelines on the research study and the internship programme are available in the LMS.

Assessment Methods and Strategies

The assessments of all taught courses have two components namely, continuous assessments and end semester examination. The nature of the continuous assessment depends on the course and may include mid-semester examinations, group assignments, individual assignments, in-class quizzes, etc. A percentage of thirty to forty of the final assessment would be allocated to the continuous assessments while the remainder will be allocated to the end-semester examinations. A grade point will be assigned for the final score and the weighted average of the

grade points (GPA) is used to assess the performance of a student following the degree programme. Further information related to the computation of the GPA and evaluation criteria are stated under in the Selection and Examination Policies section.

Student Development

Organizations expect more than just the knowledge gained from a degree in today's competitive graduate labour market. They are also looking for skills and personal attributes which guide workplace performance. The development of students' job-ready skills is facilitated by several dedicated programs and resources available at the department, faculty, and university levels.

- Co-curricular Activities – Courses in the OTM degree programme incorporate various continuous assessment activities such as Group Works, Presentations, Field Visits, and Case Studies which enhance students' teamwork, leadership, and communication skills.

- Business Communication – The faculty provides the opportunity to all students to develop themselves in English Language skills with a special focus on Business Communication. All modules related to Business Communication Education are provided by the Business Communication Unit of the faculty.

- Internship – The curriculum of the OTM degree programme includes an Internship Training programme. This opens the window to the students to initiate their career in a relevant field.

- Guest Lectures and Workshops – Students have the opportunity to participate guest lectures and workshops organized at the department, faculty, and university level. These events focus the development of skills and attitudes of the students to be job ready.

- ICT Facilities – Necessary ICT facilities are available to all students to develop themselves with necessary training on software applications and computer usage. Information Technology Resource Centre of the faculty services all ICT needs of the students. Moreover, WIFI facility is available in the university for the students free of charge. Visit http://itrc.sjp.ac.lk/ for more information.
  Learning activities are supported by the Learning Management System of the faculty. Visit http://lms.mgt.sjp.ac.lk/ using your login credentials to access resources. Students are also permitted to use Google™ services (email, unlimited cloud drive space etc.) using their university email addresses. Microsoft™ learning resources are also available to the students via subscriptions available through the faculty.

- Library Facilities – The main library of the university facilitates the students with state-of-art services such as online catalogue system, online journal access, laptop lending service, study areas, multimedia computer access, etc. free-of-charge. Visit http://lib.sjp.ac.lk/ for more information.

• Career Guidance – Guidance for career development is provided by the department, faculty, and university level. Students have the opportunity to face interviews at job fairs organized at the university premises annually. Career development unit also provides necessary guidance and support for the employment of graduates. Visit http://www.sjp.ac.lk/students/ for more information.

• Extra-curricular Activities – Apart from the engagement on the curriculum, the department, faculty, university, and students organize numerous extra-curricular activities which include sports, religious programmes, aesthetic programmes, and CSR projects. At departmental level, the Operations and Technology Management Students' Association organizes such events with the collaboration of the staff members of the department. Visit http://www.sjp.ac.lk/students/ for more information.

• Mentoring and Counselling– The students can receive academic as well as personal mentoring and counselling services for their personal development through a panel of mentors and counsellors. Visit http://www.sjp.ac.lk/students/ for more information.

• Financial Support – Students are eligible to apply for the Mahapola and Bursary scholarship at the time they enrol to the university. In addition, the Faculty of Management Studies and Commerce provides hardship funds for those students with extreme financial difficulties. Visit http://www.sjp.ac.lk/students/ for more information.

• Medical Facilities – Students are eligible to receive free medical services from the Medical Centre of the University of Sri Jayewardenepura which includes consultation services and treatments. Visit http://www.sjp.ac.lk/students/ for more information.

Career Opportunities

Operations and Technology Management is a broad academic and a professional discipline, which has a number of employment opportunities in the manufacturing and service sectors. These opportunities include positions such as operations managers, project managers, inventory and warehouse managers, distribution systems managers, purchasing managers, quality managers, etc. The degree programme is the first of its kind in addressing these employment opportunities in line with needs of developing countries such as Sri Lanka. Moreover, many management schools and universities give top priority to this academic discipline as it promises more employment opportunities and its contribution to organizational productivity and competitiveness is vital. Current statistics of the employability of Operations and Technology Management graduates indicate sufficient evidence of the ability of undergraduates to assure their career in the field at the end of the degree programme. These statistics provide further evidence for the employability of undergraduates of this degree programme in other management fields such as Human Resource Management, Marketing Management, Finance, and Accountancy due to broader scope covered by the curriculum.

OMSA

Operations Management Students Association

OMSA is the student association affiliated to the Department of Decision Sciences. The society operates under the guidance of the staff of the department. Office bearers are elected annually from the members of the society. Membership is open to students registered for the BSc Operations and Technology Management (Special) Degree programme. The head and the academic staff of the department serve as patrons of the society and a senior member of the staff serves as the senior treasurer of the association. The main objectives of the society are to facilitate and organize activities to enhance the knowledge and skills of the students, compile and publish newsletters and magazines in the field of Operations and Technology Management, organize workshops and other relevant events to develop and inculcate right attitudes and personalities in the members and to engage in any other activities deemed necessary to promote the image and well-being of the department.

During the last five years, OMSA has organized not only academic activities such as field trips and guest lecturers but also non-academic activities such as musical shows. The OMSA has created a fund to help the students to carry out various activities such as field trips and outbound training programmes. Further, the OMSA in every year donates equipment to a school in a rural village in Sri Lanka to improve the education level of that school. Recently, "OMSIGHT", the official newsletter of the Department of Decision Sciences, is successfully launched on the 5th of June 2024. Further information and details of the committee members are available in http://mgt.sjp.ac.lk/dsc/omsa

Selection and Examination Policies

These regulations provide the criteria and other conditions relating to the selection and examination policies of all the undergraduate degree programmes offered by the FMSC. Any interpretations of these regulations shall be submitted to the Senate and the decision of the Senate shall be final. These regulations shall be effective for the new entrants of the academic year 2014/2015 and thereafter. The content of this section is adopted from the Faculty Prospectus 2024 of the FMSC.

Student Admission Policy

Admission of students to the FMSC is based on their performance at the G.C.E. (Advanced Level) examination conducted by the Department of Examinations. Students seeking entrance to the FMSC must have studied one of the subject combinations stated in Section 4.1 (p.239) of the Faculty Prospectus.

Criteria for Selection for the Degree Programme

Students are firstly selected to the FMSC under the heading of 'Management' and thereafter, in the year one, second semester of the common programme, the students are selected to these programmes based on criteria given in Section 4.1.1 (p. 239-240) of the Faculty Prospectus.

Guidelines for the Calculation of Final Marks for the Courses

The end-semester examination carries a weight not less than 60% and not more than 75% of the final marks assigned to a course. Any exceptions to the above shall be approved by the Faculty Board and the Senate. The continuous evaluation component carries a weight of not more than 40% and not less than 25% of the final mark assigned to a course. This may comprise marks from one or more of the continuous evaluation modes such as mid-semester examinations/tests/quizzes, term and research papers, case studies, presentations, practical reports, skill builders, and class participations. When a candidate has not completed all the continuous assessments required for a course, the final marks shall be calculated based on the total marks allocated for the continuous assessments. For example, in a situation where 10 marks have been allocated for each of the 4 continuous assessments scheduled and the candidate has completed only 2 continuous assessments and earned 12 marks his final marks for the continuous assessments for that course shall be 12/40. See Section 4.2.7 (p.243) of the Faculty Prospectus for more information.

Grading Scale

Student performance is graded on a 12-point scale, which ranges from A+ (excellent) to E (fail). The grading scale is shown in Table 2. The letter 'MC' will be given for medical withdrawals.

Table 3:Grading Scale

Range of Marks	Letter Grade	Grade Points Per Semester Hour
85 – 100	A+	4.00
70 – 84	A	4.00
65 – 69	A-	3.70
60 – 64	B+	3.30
55 – 59	B	3.00
50 - 54	B-	2.70
45 – 49	C+	2.30
40 – 44	C	2.00
35 – 39	C-	1.70
30 – 34	D+	1.30
30 - 29	D	1.00
00 - 24	E	0.00

Guidelines for the Calculation of Grade Point Average

The grade point average (GPA) is a numerical representation of a student's overall academic achievement. The grade point average is the quotient obtained by dividing the total number of grade points earned by the total number of credit hours in which a student receives a letter' grade. Decimals beyond two places are truncated, not rounded, in computing the grade point average.

The formula for GPA calculation is given below.

$$GPA = \frac{\sum_{i=1}^{N}(\ Credit\ Hours)_i\ \times (Grade\ Points\ per\ Hour)_i}{\sum_{i=1}^{N}(\ Credit\ Hours)_i}$$

Where, i = course number, and N = the total number of courses considered.

The maximum possible GPA is 4.00 while the minimum is 0.

Passing a year of the Degree Programme

A candidate shall be deemed to have passed any year of the degree programme, if he/she has earned a minimum GPA of not less than 2.00 for the year and has no fail grades (D or E).

Passing Referred subjects in Semester Examinations

A candidate who has failed to fulfil the requirements to pass any year of the degree programme shall sit for failed course/s (all 'D' and 'E' grades) and pass those courses under the relevant restrictions given in Section 2.5.3 (p.89,90) of the Faculty Prospectus. If a candidate has earned a GPA less than 2.00, she/he shall sit for the courses with C- and D+ and earn a minimum GPA of not less than 2.00, under the relevant restrictions.

Award of Classes

First Class Standing

A student shall meet all the following requirements in order to be awarded a degree with First Class Standing:

- The student shall have earned an overall GPA of 3.70 or above in the entire degree programme.
- The student shall have earned grades of A or better in at least half the courses in the degree programme.
- The student shall not have earned grades below C.
- The student shall have fulfilled these requirements within four academic years from the first academic year of registration other than approved valid reason.

Second Class (Upper Division) Standing

A student shall meet all the following requirements in order to be awarded a degree with Second Class (Upper Division) Standing:

- The student shall have earned an overall GPA of 3.30 or above in the entire degree programme.
- The student shall have earned grades of A- grade or better in at least half the courses in the degree programme.
- The student shall not have earned more than two poor grades (C- or D+) for the entire degree programme.
- The student shall have fulfilled these requirements within four academic years from the first academic year of registration other than approved valid reason.

Second Class (Lower Division) Standing

A student shall meet all the following requirements in order to be awarded a degree with a Second Class (Lower Division) Standing:

- The student shall have earned an overall GPA of 3.00 or above in the entire degree programme.
- The student shall have earned grades of B+ or better in at least half the courses in the degree programme.
- The student shall not have earned more than two poor grades (C- or D+) for the entire degree programme.

Effective Date of the Degree

The effective date of the degree shall be the next date after the last date of the stipulated examination period on which the Year IV Semester II Examination concludes. To be eligible for this effective date, a candidate shall submit the completed research report, if required by the respective degree, before the date specified by the relevant department.

Awards

The student who will secure the highest GPA out of the students who successfully completed the B.Sc. Operations and Technology Management (Special) Degree Programme with a First or a Second Class (Upper pass will be awarded the **Brandix Gold Medal** sponsored by the Brandix Lanka Limited, at the annual convocation.

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