

DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

MASTER OF SCIENCE IN

KNOWLEDGE MANAGEMENT

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CONTENTS

Section 1	-Introduction	1-1
1.1	Background	1-1
1.2	Industrial Relevance of Knowledge Management	1-1
1.3	Uniqueness of the Programme	1-2
Section 2	-Programme Aims and Intended Learning Outcomes	2-1
2.1	University Mission	
2.2	Rationale and Programme Aims	2-1
2.3	Relationship between University Mission and the Programme Aims	2-2
2.4	Institutional Learning Outcomes	2-3
2.5	Intended Learning Outcomes (ILOs) of the Programme	2-3
2.6	Relationship between Institutional Learning Outcomes and Intended Learning	
	Outcomes (ILOs) of the Programme	2-4
2.7	Relationship between Aims and Intended Learning Outcomes (ILOs) of the	
	Programme	2-4
2.8	Curriculum Map that We Teach (T), Give Students Practice (P) and Measure (M)	I
	the Intended Learning Outcomes (ILOs) of the Programme	2-5
2.9	Feedback Process	2-6
Section 3	-Admission and Entrance Requirements	3-1
3.1	Admission	3-1
3.2	Minimum Entrance Requirements	3-1
3.3	English Language Requirement	3-1
3.4	Selection Procedure	3-1
3.5	Frequency of Admission and Registration	3-1
Section 4	-Curriculum Structure	4-1
4.1	Programme Design	4-1
4.2	Compulsory Subjects	4-2
4.3	Core Subjects	4-3
4.4	Elective Subjects	4-5
4.5	Dissertation	4-5
Section 5	-Examination and Assessment	5-1
5.1	General Assessment Regulations (GAR)	5-1
5.2	Assessment Methods	
5.3	Grading	
5.4	Dissertation Assessment	
5.5	Different Types of GPA	5-4

5.6	Progression/Academic Probation/Deregistration	5-4
5.7	University Graduation Requirements	5-5
5.8	Guidelines for Award Classification	5-7
5.9	Classification of Awards	5-7
5.10	Graduation	5-8
5.11	Validity of Credits	5-9
5.12	Retaking of Subjects	5-9
5.13	Absence from an Assessment Component	5-9
5.14	Aegrotat Award	5-10
5.15	Other Particular Circumstances	5-10
5.16	Recording of Disciplinary Actions in Students' Records	5-10
Section 6	-Programme Operation and Control	6-1
6.1	Frequency of Subjects to be Offered	6-1
6.2	Evening, Weekend and Summer Teaching	6-1
6.3	Subject Registration and Withdrawal	6-1
6.4	Study Load	6-1
6.5	Subject Exemption	6-2
6.6	Credit Transfer	6-2
6.7	Deferment of Study	6-3
6.8	Registration Period	6-3
6.9	Compulsory Graduation	6-4
6.10	Departmental Postgraduate Programme Committee	6-4
6.11	Programme Leader	6-6
6.12	Programme Executive Group	6-6
6.13	Theme Group Leaders	6-6
6.14	Student/Staff Consultative Group	6-6
Section 7	-Programme Evaluation and Development (PED)	7-1
Section 8	-Subject Syllabi	8-1

This Definitive Programme Document is subject to review and changes which the programme offering Faculty/Department can decide to make from time to time. Students will be informed of the changes as and when appropriate.

Section 1 - Introduction

1.1 Background

1.1.1 The programme is hosted by the Department of Industrial and Systems Engineering (ISE) with collaboration from other departments. The subjects offered in the programme can be selected by students in other master programmes as electives to broaden their knowledge. ISE has already developed the strength and expertises that enables it to put forward this pioneer and multi-disciplinary programme. The Department is also collaborating with a pool of international experts to jointly develop the curriculum. Each subject will have a coordinator who will be a full-time staff member of the Department and will be responsible for the subject's quality assurance.

1.2 Industrial Relevance of Knowledge Management

- 1.2.1 Knowledge Management (KM) encapsulates processes and techniques for the creation, collection, indexing, organisation, distribution, and evaluation of institutional knowledge for re-use. KM in its wider interpretation, encompasses key theories and techniques from many diversified areas such as information retrieval, business systems, and enterprise engineering, organisational learning, change and innovation management.
- 1.2.2 Hong Kong is continuing its transformation from an industrial and production-based society to one that is a knowledge-based in which the systematic deployment of knowledge is crucial to the competitiveness of Hong Kong's companies and organisations. The traditional focus of the business landscape being focused mainly on cost structure and operational efficiency has changed to the building of capabilities for faster learning and innovation so as to increase the agility and responsiveness of enterprises to this rapid changing environment. Under such a highly competitive environment, the value-added provided by an organisation is often measured by the knowledge that it can provide, the time required to generate/locate this knowledge, and the quality of any subsequent decisions made as a consequence. The applications of KM for managing an enterprise's intellectual assets are becoming increasingly important to their competitiveness and market value. The creation, classification, storage, sharing, and reuse of institutional knowledge have become not only an area of active academic research but also of growing concerns in knowledge intensive companies and organisations.
- 1.2.3 Effective and efficient operations in running an enterprise require automation and embedded intelligence in common business processes. Reinforcing this view is the increasing shift of the focus of KM from the codification approach (i.e. by the use of a search engine) which occurred

during the mid to late 90s, to a process-based approach (e.g. "baking" knowledge into processes, capturing, and sharing knowledge in communities) from 2000 onwards. KM, is a newly developed field at the intersection of information science and management, and deals with knowledge as a key resource in modern organisations. The emerging KM discipline covers the complete route from knowledge analysis and audit, the design and implementation of knowledge-intensive information systems to the enhancement of organisational learning. The success of KM relies largely on in-depth research in KM and the availability of well trained KM professionals that have a strong appreciation of the prevalent issues in KM and an in depth understanding of the relevance and role of each of the above-mentioned areas in any KM initiatives and deployment.

1.3 **Uniqueness of the Programme**

- 1.3.1 Prior to this programme being launched, there was no full degree programme available in Hong Kong that is in KM. Only individual subjects related to KM are offered by some other tertiary institutions. This MSc in KM is unique and among the first of its kind in the Asia Pacific region especially for its multi-disciplinary nature and in the use of blended learning.
- 1.3.2 In the light of the lack of KM professionals in Hong Kong and the Asia Pacific region, the proposed new programme is designed to address this need. It is distinctly unique as its main objectives are to provide the necessary professional training to students to acquire and develop expertise the rapidly growing area of KM.
- 1.3.3 One of the unique features of the proposed programme is that the curriculum is co-developed by an international team of leading experts in KM and staff from the University. The programme provides a solid foundation on the fundamentals of KM and enables students with different backgrounds (e.g. IT based or management based) to specialise in areas of their specialism.

Section 2 - Programme Aims and Intended Learning Outcomes

2.1 University Mission

The design of this programme begins with the Mission Statement for the University stated below:

- (i) To pursue impactful research that benefits the world;
- (ii) To nurture critical thinkers, effective communicators, innovative problem solvers and socially responsible global citizens; and
- (iii) To foster a University community in which all members can excel in their aspirations with a strong sense of belonging and pride.

2.2 Rationale and Programme Aims

- 2.2.1 The programme of study is designed to:
 - develop areas of study relevant to the student's current profession or a profession he/she intends to engage in, and to continue update a student's knowledge in a particular discipline;
 - (ii) develop areas of study new to the student or in areas not directly related to the scope of the student's first degree;
 - (iii) provide an analytical in-depth study of an area already introduced at the undergraduate level;
 - (iv) synthesise and integrate a number of disciplines or subjects;
 - (v) develop applied studies or to extend an area of study which cannot be pursued adequately at the undergraduate level.
- 2.2.2 The aims of the programme are to:
 - 1. provide a balanced approach and treatment of the discipline that is relevant to the changing needs of the society;
 - 2. provide students an in-depth understanding of the tools and methods in the design and implementation of a KM programme in a typical organisation;
 - 3. enable students to be familiar with the latest development and prevalent issues in KM;
 - 4. enable students to be familiar with the professional ethics relevant to KM.
- 2.2.3 The programme is suitable for graduates from various disciplines (engineering, information technology, social work, library science, health care, management, etc.) and KM professionals to update their knowledge in the area, as well as people working in information technology,

human resource management, technology management, project management, etc. so that they can learn how to apply KM in their working environment.

- 2.2.4 To cater for students looking for breadth and depth of how KM is relevant to a knowledgebased society, the curriculum spans all the key topics in KM from a business, IT, learning, and information services perspectives. The programme also maintains a balanced treatment of theories and practice. This is being achieved in three ways. Firstly, an international panel of experts is involved in the programme. These experts provide, on an ongoing basis, valuable advice on the composition of subjects in the programme as well as the content of individual subjects. These experts also act as online facilitators for specific subjects during programme delivery. Secondly, dominant KM software will be used for demonstrations and hands-on sessions whenever appropriate. Thirdly, numerous case studies and mini-scenarios, both local and international ones, have been included in various subjects.
- 2.2.5 Upon graduation from this programme, students will be competent in all major KM concepts, theories and frameworks. They should be able to assess an organisation's readiness for KM, identify strengths, weaknesses and gaps (between strategies and objectives), prioritise various KM initiatives, plan a roadmap for deployment, execute the plan, and monitor the deployment for reporting and improvement purposes. They should develop a life-long learning capability so that they can continuously update themselves with new knowledge and implement new practices in KM. In addition, they should familiarise themselves with professional ethics in the KM field so as to avoid the misuse of technology when performing information gathering and sharing.

		Uni	versity Mission elem	ents
		i	ii	iii
D	1	Х	X	
Programme Overall	2		X	Х
Aims	3	Х	X	
AIIIIS	4		Х	Х

2.3 Relationship between University Mission and the Programme Aims

2.4 Institutional Learning Outcomes

- 2.4.1 The following learning outcomes are to be broadly applicable to all taught postgraduate programmes:
 - 1. Professional competence of specialists/leaders of a discipline/profession: Graduates of PolyU taught postgraduate programmes will possess in-depth knowledge and skills in their area of study and be able to apply their knowledge and contribute to professional leadership.
 - 2. Strategic thinking: Graduates of PolyU taught postgraduate programmes will be able to think holistically and analytically in dealing with complex problems and situations pertinent to their professional practice. They will be versatile problem solvers with good mastery of critical and creative thinking skills, who can generate practical and innovative solutions.
 - 3. Lifelong learning capability: Graduates of PolyU taught postgraduate programmes will have an enhanced capability for continual professional development through inquiry and reflection on professional practice.

2.5 Intended Learning Outcomes (ILOs) of the Programme

- 2.5.1 The programme provides a flexible and unique opportunity for participants in different disciplines to acquire and apply Knowledge Management skills and tools to address their professional and organizational needs. In general, the learning outcomes for the graduates of MSc/PgD in Knowledge Management are:
 - 1. Professional Knowledge: Graduates will possess in-depth knowledge, skills and practice in technology based and people based knowledge management. They will be able to identify, justify, plan and lead projects in the above areas in organizations, as well measure the success and impact of knowledge management projects and programmes.
 - 2. Critical and creative thinking: Graduates can operate holistically and/or strategically in dealing with issues related to the effective introduction and sustainment of managing knowledge and innovations in organizations. They will be versatile problem solvers and creative thinkers with good mastery of skills especially on tackling people and cultural issues.
 - 3. Life-long learning capability: Graduates will be able to learn how to learn and develop their reflective skills in becoming effective learners in the field.

2.6 Relationship between Institutional Learning Outcomes and Intended Learning Outcomes (ILOs) of the Programme

		Institut	tional Learning Ou	itcomes
		1	2	3
Intended	1	Х		
Learning Outcomes of the	2		Х	
Programme	3			Х

2.7 Relationship between Aims and Intended Learning Outcomes (ILOs) of the Programme

			Program	me Aims	
		1	2	3	4
Intended	1	Х	Х	Х	Х
Learning	2		Х	Х	
Outcomes	3	Х	Х	Х	Х

SUBJECT CODES	SUBJECT TITLES	PROGRAMME OUTCOMES			
CODES		1	2	3	
	COMPULSORY				
ISE542	Managing Knowledge	TPM	TPM	TPM	
ISE543	Methods and Tools for Knowledge Management Systems	TP	TP	TPM	
ISE5600	Organisational Learning: Methods and Practices	TP	TP	TPM	
ISE5601	Managing and Measuring Intellectual Capital	TPM	TPM	Т	
ISE5604	Strategic Issues and Case Studies in Knowledge Management	TPM	PM	TM	
	CORE				
ISE549	Management of Innovation and Technology	TPM	Т	TP	
ISE5024	Knowledge Based Service Innovation	TPM	PM	Р	
ISE5603	Enterprise Knowledge Portals T		TP	TM	
ISE5605	Knowledge Communities 7		PM	ТМ	
ISE5606	Business Intelligence and Data Mining		PM	Р	
ISE5607	E-Learning Technologies and Practices		Т	TP	
	ELECTIVE				
ISE518	Workflow Design and Management TF		TPM	Р	
ISE520	Manufacturing Strategy TPM T		Т	TP	
ISE526	Enterprise Resource Planning	TP	Р	Р	
ISE553	Managing Six Sigma		TP		
ISE5018	Intellectual Property Management and Strategies TPM		TPM	Т	
ISE5025	Knowledge Management Practices in Small and Medium-sized EnterprisesTPM		TP	Р	
ISE5699	Dissertation	TP	TP	Р	
MM511	Managing Organizations and People	TMP	PM		
MM521	Leading Change	TPM	TP	Р	

2.8 Curriculum Map that We Teach (T), Give Students Practice (P) and Measure (M) the Intended Learning Outcomes (ILOs) of the Programme

2.9 Feedback Process

The Postgraduate Programme Committee and the Programme Leader are the elements of a feedback system in programme management. Their responsibilities include examining the information received from the stakeholders, modifying the plan as appropriate, using appropriate measurement data to evaluate the programme outcomes as the process is implemented, and suggesting changes in the subject content, the extracurricular content or any other revisions needed to improve the programme when its performance falls short of the benchmarks.

Section 3 - Admission and Entrance Requirements

3.1 Admission

3.1.1 Applicants may apply for admission to the programme studying for the award of Master of Science. The maximum period of registration for full-time and part-time students are four years respectively from the date of first registration and application for extension will only be approved under exceptional circumstances.

3.2 Minimum Entrance Requirements

3.2.1 Entry qualifications are a bachelor's degree or a professional qualification, or equivalent. Consideration will be given to candidates with appropriate working experience.

3.3 English Language Requirement

- 3.3.1 If applicants are not native speakers of English, and their Bachelor's degree or equivalent qualification is awarded by institutions where the medium of instruction is not English, applicants are expected to fulfill the following minimum English language requirement for admission purpose:
 - A Test of English as a Foreign Language (TOEFL) score of 80 or above for the Internet-based test; or a TOEFL score of 550 or above for the paper-based test; OR
 - An overall Band Score of at least 6 in the International English Language Testing System (IELTS).

3.4 Selection Procedure

3.4.1 The Programme Leader and Admission Officer are responsible for admission and the admission procedures. Interviews may be administered for the selection of students to the programme. Applicants will be selected on the basis of their qualifications, work experience and the programme's relevance to their employment. Preference may be given to industry sponsored candidates.

3.5 Frequency of Admission and Registration

3.5.1 Students will be admitted into the programme on an annual basis into Semester 1 of the academic year. Admission into Semester 2 is however possible on a top-up basis. Subject registration will therefore be available in both semesters.

Section 4 - Curriculum Structure

4.1 **Programme Design**

- 4.1.1 The programme is offered in a blended face-to-face and online mode. Subjects are mainly delivered via face-to-face lectures. Students are able to communicate with their peer groups and subject leaders in classes, using a web-based discussion forum, emails, among other means. The programme will be supported by tutorials (via the Online Tutorial System), seminars, workshops and presentations. The use of this blended mode of teaching is expected to enhance students' learning experience.
- 4.1.2 The principle underlying the programme structure is to provide students with both a solid foundation in the latest theory, practice, and development of KM. Flexibility is also provided for students with different backgrounds (e.g. IT or management) to choose electives in other areas they would like to specialise in. The programme consists of three categories of subjects:
 (A) Compulsory Subjects, (B) Core Subjects, and (C) Elective Subjects. Subjects are offered in the blended learning mode or via the conventional face-to-face teaching mode. Tables 4.1 to 4.3 list the programme's subjects.

Table 4.1 Compulsory Subjects which are fundamental to KM

ISE542	Managing Knowledge
ISE543	Methods and Tools for Knowledge Management Systems
ISE5600	Organisational Learning: Methods and Practices
ISE5601	Managing and Measuring Intellectual Capital
ISE5604	Strategic Issues and Case Studies in Knowledge Management

Table 4. 2 Core Subjects which allow students to specialise in various areas in KM

ISE549	Management of Innovation and Technology		
ISE5024	Knowledge Based Service Innovation		
ISE5603	Enterprise Knowledge Portals		
ISE5605	Knowledge Communities		
ISE5606	Business Intelligence and Data Mining		
ISE5607	E-Learning Technologies and Practices		

	(The following is the list of approved elective subjects for the programme.)			
ISE518	Workflow Design and Management			
ISE526	Enterprise Resource Planning			
ISE553	Managing Six Sigma			
ISE5018	Intellectual Property Management and Strategies			
ISE5025	Knowledge Management Practices in Small and Medium-sized Enterprises			
MM511	Managing Organizations and People			
MM521	Leading Change			

4.1.3 The programme has been carefully designed to provide a holistic treatment of major KM concepts and principles commonly known to academics and practitioners. This is achieved by careful planning of the compulsory and elective subjects as well as the rules that govern the taking of these subjects. Special emphasis has also been placed on the characteristics, requirements, and trading environment in the local industry. In particular, a subject named "Strategic Issues and Case Studies in Knowledge Management" is designed to provide additional topics that cross over multiple sub-fields in KM.

4.2 **Compulsory Subjects**

- 4.2.1 The subject *Managing Knowledge (ISE542)* is the first programme subject that aims to students introduce the foundations of KM to students. It is designed to provide students with an insight and introductory working knowledge to allow them to effectively apply KM in organizations, achieve their objectives, and lead and promulgate KM efforts for business effectiveness and success. The purpose is to equip students with practitioner understanding and proficiency to initiate, assess, operate, disseminate, and manage KM practices, projects, programs, and other KM efforts with an enterprise.
- 4.2.2 *Methods and Tools for Knowledge Management Systems (ISE543)* provides students an overall understanding of the major issues related to the role, alignment, and deployment of Knowledge Management Systems (KMS) in organizations. Techniques for organizing and searching knowledge, and assessment of technical infrastructure are also discussed. Students are expected to gain a holistic and in-depth understanding of many KM-related technologies and their evolution, as well as be able to relate and assess its suitability for their own organizations.

- 4.2.3 Organisational Learning: Methods and Practices (ISE5600) provides students with an understanding of the evolution of organizational learning; an appreciation to identify the characteristics and limitations of learning organizations; a working knowledge of various tools in team learning, such as action science, systems thinking, scenario planning, and storytelling; and an understanding of the barriers involved in organizational learning.
- 4.2.4 *Managing and Measuring Intellectual Capital (ISE5601)* provides students with working knowledge of different elements of intellectual capital and the deriving values from intellectual capital; theory and practice for the strategic management of intellectual capital and its implementation life cycle; and understanding of different approaches for measuring and reporting value of intellectual capital.
- 4.2.5 *Strategic Issues and Case Studies in Knowledge Management (ISE5604)* aims to familiarize the students with advanced topics and research findings from knowledge management (KM) literature and experiences from implementation. It also aims to equip students with a general management and strategic know-how of designing, deploying, and managing the implementation of knowledge-based strategies using qualitative tools, narratives, soft system methodologies, and case methods/action learning, among others. Selective topics e.g. Artificial Intelligence, Innovations, KM in Social Services and KM standards are also covered.

4.3 **Core Subjects**

- 4.3.1 *Knowledge Based Service Innovation (ISE5024)* provides students with an overall understanding of the fundamental ways by which a firm's knowledge-based organizational capabilities enable service innovation and how these capabilities must be configurable and aligned with the enterprise strategy for superior value co-creation with the customers; a holistic and in-depth understanding of prevailing practical methods for developing and aligning the service innovation models, processes and operations with both the espoused enterprise strategy and customer value proposition to achieve sustainable competitive advantage; and to relate and assess the suitability of the strategy-aligned service innovation concepts, models and methods for their own organizations.
- 4.3.2 *Management of Innovation and Technology (ISE549)* enables students to explore, understand, and practice innovation and technology as corporate resources that determine both the strategic and the operational capabilities of firms in designing and developing products and services for maximum customer satisfaction and corporate competitiveness.
- 4.3.3 *Enterprise Knowledge Portals (ISE5603)* provides students with the ability to identify the role of different types of portals to support information management, process management,

collaborations, and transaction processing in the workplace, as well as in the Internet world and to develop a roadmap for the introduction of a portal, choose the necessary functions and technologies, as well as define metrics for measuring adoption by users, together with change management required to support the deployment.

- 4.3.4 *Knowledge Communities (ISE5605)* aims to provide students the opportunity to understand the various types and purposes of knowledge communities; to appreciate the power of knowledge communities in knowledge creation, retention, and sharing; to understand the various types of tools and technologies that support different stages of an online community; to learn about various models for assessing the maturity and value of a communities; and to learn about strategies for development, sustainment, and change management in support of online communities.
- 4.3.5 *Business Intelligence and Data Mining (ISE5606)* enables students to master the basics in business intelligence (BI), data mining (DM), and knowledge discovery in databases; to learn the role that software tools/applications play in BI and DM, with emphasis on industrial case studies and practical applications; and to have an overall understanding of the major issues and applications in business intelligence and data mining, including a basic grasp of the algorithm classes and best practices for building successful BI projects.
- 4.3.6 One of the key focuses of *E-Learning Technologies and Practices (ISE5607)* is to provide students with the knowledge to understand the prevalent models of electronic learning, development of learning strategies, and construct business cases on return on investment; to appreciate the general and niche applications of electronic learning; to explore the existing and emerging technologies and practices that underpin/impact the formulation and deployment of electronic learning and assess their implications; and to critically examine the role, strengths, and weaknesses of learning management and course delivery systems and components.

4.4 **Elective Subjects**

4.4.1 Elective subjects consist of a pool of subjects on managing specific activities of an enterprise such as quality assurance, resources planning, product launching, customer relationship management, technology transfer, workflow management, and performance measurement. The programme has 10 subjects that are listed as electives. These subjects cover a wide range of areas to suit the needs of individual students.

4.5 **Dissertation**

- 4.5.1 The Dissertation comprises a single piece of work. The work should be of a standard which reflects the student's ability to undertake an applied theoretical piece of research work within the professional context of KM areas. The objective of this work is to enhance the competence of students in conducting research and development relating to KM in their companies. Creative skills and innovative thinking in the application of advanced knowledge and theory learned in the programme to solve real industrial problems should be demonstrated.
- 4.5.2 The dissertation carries a weight equivalent to 9 credits or three taught subjects. It represents around 420 hours of student effort. Students will continue with their jobs while they work on their dissertations. The subject of the dissertation will preferably be related to the students' employment. The normal period for completion of a dissertation is 3 semesters. Students who are not able to complete their dissertations with the normal period may apply on the advice of the supervisor to extend the dissertation registration beyond the normal period but within the maximum period of 4 semesters. For students not taking the *Dissertation (ISE5609)*, the compulsory subject in *Strategic Issues and Case Studies in Knowledge Management (ISE5604)* will require students to complete a mini-project on a topic of their choice.
- 4.5.3 Students registered for the MSc award will be advised to register for their Dissertation after completion of their fourth subject. However, they will not be allowed to register if they have achieved a GPA of less than 2.5.
- 4.5.4 Students usually continue with their jobs while they work on their dissertations, the subject of the dissertation is preferably related to the student's own work and ideas. Where others have had an input (e.g. in a team situation) this should be clearly identified. Since the subject areas of dissertations are so diverse it is impossible to define a standard approach to content, but included, should be an introduction and definition of objectives, a literature survey, a review of the problem followed by a description of the student's approach to solving the problem, the results or findings, and intellectual analysis of the results or findings, and finally a logical review of the conclusions drawn.

- 4.5.5 Students are encouraged to initiate dissertation topics relating to their employment. However, students may take up campus based dissertations in cases of difficulty. A seminar will be given to the students to assist them writing a dissertation proposal. The purpose of the dissertation seminar is to enable students to identify and define a problem for valid research, to develop their abilities to identify and evaluate appropriate research methods, and to provide a framework from which students can begin their own research work. The content of some of the seminars will include research methods, research design, analysis of data presentation of findings, and the ethical and legal considerations. Staff members active in research will participate and interact with students in answering questions and leading discussion on major issues. Subsequent to the dissertation seminar, the student will prepare a dissertation proposal in a standard format using a synopsis form. Students are expected to submit their dissertation proposal to the Dissertation Coordinator for approval.
- 4.5.6 Under normal circumstances, and with the agreement of the supervisor(s), students may prepare for assessment after satisfactory progress. FOUR unbound copies of the dissertation shall be submitted, together with the Dissertation Submission Form to the academic supervisor and one copy shall be kept by the student one month prior to the end of the semester. After submission of the unbound copies of the dissertation the academic supervisor shall make arrangements with the assistance of the department on a mutually convenient time and place for an oral exam at which the other assessors will be presented. The assessment panel will consist of three categories of member, namely, the supervisors (academic, professional and co-supervisor if relevant), a second assessor who is a subject expert from the department, from another department in the University, or from industry, to be nominated by the academic supervisor and approved by the Dissertation Coordinator where approval authority has been delegated; and a moderator appointed by the Chairman or the Coordinator to provide quality control.
- 4.5.7 The amount of effort required by students in the dissertation should clearly be reflected in the quantity and quality of the final submission. In assessing the standard of dissertations supervisors will be seeking to ensure that the student has met with the aims of this part of the programme. The student and academic supervisor should contact each other from time to time to discuss progress against his agreed programme. The responsibility for arranging meetings between student and academic supervisor is shared by both parties. The academic supervisor will provide guidance to complement that available within the student's employing organisation and advise the student about the style of presentation of the dissertation. Academic and professional supervisors will liaise as circumstances require. The academic

supervisor will be available for consultation on a regular basis both at the University and at the student's workplace according to circumstances. The role of the professional supervisor is to be able to assess the student's effort in the workplace and assist in the conduct of the oral examination and provide assurance that the candidate's work has been independently done. Students should approach a prospective professional supervisor and explain their requirements and should obtain his/her agreement to act as professional supervisor. If the work for the dissertation forms part of a group endeavour within the student's organization, it is essential that the student's personal contribution can be identified and that the professional supervisor can speak for the part which the student has played. In cases where no suitable professional supervisor can be found, the Committee will appoint a second academic supervisor to take the place of the professional supervisor. If the dissertation topic is based in the student's workplace, visits to the student's place of work by the academic supervisor(s) will be necessary.

Section 5 - Examination and Assessment

5.1 General Assessment Regulations (GAR)

5.1.1 The University's General Assessment Regulations shall apply to the MSc in Knowledge Management programme. The specific assessment regulations are set out here, having been developed within the framework of the GAR.

5.2 Assessment Methods

- 5.2.1 Students' performance in a subject can be assessed by continuous assessment and/or examinations, at the discretion of the individual subject offering Department. Where both continuous assessment and examinations are used, the weighting of each in the overall subject grade is clearly stated in Section 8 of this document. The subject offering Department can decide whether students are required to pass both the continuous assessment and examination components, or either component only, in order to obtain a subject pass, but this requirement (to pass both, or either, components) will be specified in Section 8 of this document. Learning outcome should be assessed by continuous assessment and/or examination appropriately, in line with the outcome-based approach.
- 5.2.2 Continuous assessment may include tests, assignments, projects, laboratory work, field exercises, presentations and other forms of classroom participation. Continuous Assessment assignments which involve group work should nevertheless include some individual components therein. The contribution made by each student in continuous assessment involving a group effort shall be determined and assessed separately, and this can result in different grades being awarded to students in the same group.
- 5.2.3 Assessment methods and parameters of subjects shall be determined by the subject offering Department.

5.3 Grading

5.3.1 Assessment grades shall be awarded on a criterion-referenced basis. A student's overall performance in a subject shall be graded as follows:

Subject Grade	Grade Point	Short Description	Elaboration on subject grading description
A+	4.5	Exceptionally Outstanding	The student's work is exceptionally outstanding. It exceeds the intended subject learning outcomes in all regards.
А	4.0	Outstanding	The student's work is outstanding. It exceeds the intended subject learning outcomes in nearly all regards.
B+	3.5	Very Good	The student's work is very good. It exceeds the intended subject learning outcomes in most regards.
В	3.0	Good	The student's work is good. It exceeds the intended subject learning outcomes in some regards.
C+	2.5	Wholly Satisfactory	The student's work is wholly satisfactory. It fully meets the intended subject learning outcomes.
С	2.0	Satisfactory	The student's work is satisfactory. It largely meets the intended subject learning outcomes.
D+	1.5	Barely Satisfactory	The student's work is barely satisfactory. It marginally meets the intended subject learning outcomes.
D	1.0	Barely Adequate	The student's work is barely adequate. It meets the intended subject learning outcomes only in some regards.
F	0	Inadequate	The student's work is inadequate. It fails to meet many of the intended subject learning outcomes.

'F' is a subject failure grade, whilst all others ('D' to 'A+') are subject passing grades. No credit will be earned if a subject is failed.

5.3.2 At the end of a semester, a Grade Point Average (GPA) will be computed as follows, and based on the grade point of all the subjects:

$$GPA = \frac{\sum_{n} Subject \ Grade \ Point \times Subject \ Credit \ Value}{\sum_{n} Subject \ Credit \ Value}$$

Where n = number of all subjects (inclusive of failed subjects) taken by the student up to and including the latest semester/term, but for subjects which have been retaken, only the grade point obtained in the final attempt will be included in the GPA calculation.

- 5.3.3 Exempted, ungraded and incomplete subjects, subjects for which credit transfer has been approved without any grade assigned[^], and subjects from which a student has been allowed to withdraw, i.e. those with the Grade "W" will be excluded from the GPA calculation. Subjects which have been given an "S" grade code i.e. absent from an assessment, will be included in the GPA calculation and will be counted as "zero" grade point. The GPA is thus the unweighted cumulative average calculated for a student, for all relevant subjects taken from the start of the programme to a particular point of time. GPA is an indicator of overall performance, and is capped at 4.0.
- 5.3.4 Subjects taken in PolyU or elsewhere and with grades assigned, and for which credit transfer has been approved, will be included in the GPA calculation.

5.4 **Dissertation Assessment**

- 5.4.1 Students are expected to submit a dissertation proposal to the Dissertation Coordinator no later than the last day of the semester in which he/she first registers for the dissertation. Staff contacts with industry, their research and consultancy work may lead to project proposals too. Dissertation proposals will be assessed for suitability by an ad hoc panel convened by the Dissertation Coordinator.
- 5.4.2 Students will be required to complete their dissertations normally within 3 semesters. Those who are not able to complete their dissertation may apply on the advice of the supervisor to extend the dissertation registration beyond the normal period but within the maximum of 4 semesters. The application must be recommended by the relevant Dissertation Coordinator and must be approved by the Programme Leader. Applications for extension beyond the normal period will only be approved under exceptional circumstances. Based on the AS Student Handbook, participants who are permitted to extend their dissertation beyond the normal period will have to pay extension fee.
- 5.4.3 The assessment panel will consist of the following members, namely:
 - 1. the academic supervisor(s),
 - a second assessor who is a subject expert from the department, or from another department in the University, or from industry, to be nominated by the academic supervisor(s) and approved by the Dissertation Coordinator,
 - 3. and a moderator appointed by the Programme Leader or Dissertation Coordinator to provide quality control.
- 5.4.4 A copy of the dissertation should be sent to each of the assessors and one copy should be kept by the student.

- 5.4.5 After submission of the final report, the academic supervisor should make arrangements with the assistance of the department on a mutually convenient time and place for an oral examination at which the other assessors will be present. The date set for the oral examination should allow sufficient time for the examiners to read the submission and should normally be no later than one month after submission of the dissertation.
- 5.4.6 After conducting the oral examination, the assessment panel will jointly allocate a grade guided by the following weightings which may vary depending on the nature of the project.
- Progress 20% + Dissertation 50% + Oral 30% = Total 100% 5.4.7 A moderator appointed by the Programme Leader or Dissertation Coordinator will subsequently moderate the dissertations to ensure that proper standards are maintained and that fairness and consistency are practiced in the grades awarded.
- 5.4.8 Students failing their dissertations will not be allowed to re-take their dissertation subjects.

5.5 **Different Types of GPA**

- 5.5.1 GPA will be calculated for each Semester including the Summer Term. This <u>Semester</u> <u>GPA</u> will be used to determine students' eligibility to progress to the next Semester alongside with the 'cumulative GPA'. However, the Semester GPA calculated for the Summer Term will not be used for this purpose, unless the Summer Term study is mandatory for all students of the programme concerned and constitutes part of the graduation requirements.
- 5.5.2 The GPA calculated after the second Semester of the students' study is therefore a '<u>cumulative'</u> <u>GPA</u> of all the subjects taken so far by students, and without applying any level weighting.
- 5.5.3 Along with the 'cumulative' GPA, a <u>weighted GPA</u> will also be calculated, to give an indication to the Board of Examiners on the award classification which a student will likely get if he makes steady progress on his/her academic studies.
- 5.5.4 When a student has satisfied the requirements for award, an <u>award GPA</u> will be calculated to determine his/her award classification.

5.6 **Progression/Academic Probation/Deregistration**

- 5.6.1 The Board of Examiners shall, at the end of each semester (except for Summer Term unless there are students who are eligible to graduate after completion of Summer Term subjects or the Summer Term study is mandatory for the programme), determine whether each student is:
 - (i) eligible for progression towards an award; or
 - (ii) eligible for an award; or
 - (iii) required to be de-registered from the programme.

- 5.6.2 When a student has a Grade Point Average (GPA) lower than 2.0, he/she will be put on academic probation in the following semester. Once when a student is able to pull his/her GPA up to 2.0 or above at the end of the semester, the status of "academic probation" will be lifted. The status of "academic probation" will be reflected in the examination result notification but not in transcript of studies.
- 5.6.3 A student will have 'progressing' status unless he/she falls within the following categories, either of which may be regarded as grounds for de-registration from the programme:
 - (i) the student has exceeded the maximum period of registration for the programme (see paragraph 6.8); or
 - (ii) the student's GPA is lower than 2.0 for two consecutive semesters and his/her Semester GPA in the second semester is also lower than 2.0; or
 - (iii) the student's GPA is lower than 2.0 for three consecutive semesters.

When a student falls within the categories as stipulated above, the Board of Examiners shall de-register the student from the programme without exception.

- 5.6.4 A student may be deregistered from the programme enrolled before the time frame specified in (ii) or (iii) above if his/her academic performance is poor to the extent that the Board of Examiners considers that there is not much of chance for him/her to attain a GPA of 2.0 at the end of the programme, or to recommend that students who fall into categories (ii) or (iii) be allowed to stay on the programme, and these recommendations should be presented to the relevant Faculty Board for final decision.
- 5.6.5 If the student is not satisfied with the de-registration decision of the Board of Examiners, he/she can lodge an appeal. All such appeal cases will be referred directly to Academic Appeals Committee (AAC) for final decision. Views of Department will be sought and made available to AAC for reference.

5.7 University Graduation Requirements

- 5.7.1 A student is eligible for award if he/she satisfies all the conditions listed below:
 - (i) Each taught subject carries 3 credits and the Dissertation carries 9 credits. To obtain the MSc degree, students must acquire a minimum of 30 credits. To obtain the PgD award, students must acquire a minimum of 18 credits at the end of the Programme.
 - (ii) Students must satisfy the residential requirement for at least 1/3 of the credits to be completed for the award he/she is currently enrolled in PolyU;
 - (iii) All requirements as defined in the definite programme document and as specified by the University are satisfied; and
 - (iv) Students must have a GPA of 2.0 or above at the end of the programme.

- 5.7.2 To be eligible for the MSc award, students shall satisfy either of the following requirements (see Fig. 5.1) and having a GPA of 2.0 or above at the end of the Programme:
 - <u>SEVEN</u> taught subjects, including <u>FIVE</u> Compulsory, at least <u>ONE</u> Core, and at most <u>ONE</u> Elective subject, plus a Dissertation OR
 - <u>TEN</u> taught subjects, including <u>FIVE</u> Compulsory, at least <u>THREE</u> Core, and at most <u>TWO</u> Elective subjects.



Fig. 5.1 Programme Curriculum

- 5.7.3 To be eligible for the award of the PgD (again see Fig. 5.1), students shall complete <u>SIX</u> taught subjects, including at least <u>FOUR</u> Compulsory, at least <u>ONE</u> Core, and at most <u>ONE</u> Elective subject and having a GPA of 2.0 or above at the end of the Programme.
- 5.7.4 The awards of PgD and MSc are classified as: Distinction, Credit, and Pass.
- 5.7.5 A student is required to graduate as soon as he/she satisfies all the conditions for award. Subject to the maximum study load of 21 credits per semester, a student may take more credits than he/she needs to graduate on top of the prescribed credit requirements for his/her award in or before the semester within which he/she becomes eligible for award.

5.8 Guidelines for Award Classification

5.8.1 To help the Board of Examiners in arriving at award classification decisions, a weighted GPA will be computed for each student upon completion of the programme. The Weighted GPA will be computed as follows:

$$\label{eq:Weighted GPA} Weighted GPA = \begin{array}{cc} \underline{\Sigma}_n & \mbox{Subject Grade Point} \times \mbox{Subject Credit Value x } W_i \\ \underline{\Sigma}_n & \mbox{Subject Credit Value x } W_i \end{array}$$

where Wi = weighting to be assigned according to the level of the subject

n = number of all subjects counted in GPA calculation as set out in paragraph 5.3, except those exclusions that any subjects passed after the graduation requirement has been met will not be taken into account of in the grade point calculation for award classification.

The weighting of each level is a measure of the relevance of the level to the classification of the award. Same as GPA, weighted GPA is capped at 4.0.

- 5.8.2 All subjects in this programme bear the same weighting for the purpose of award classification.
- 5.8.3 Any subjects passed after the graduation requirement has been met or subjects taken on top of the prescribed credit requirements for award shall not be taken into account in the grade point calculation for award classification. However, if a student attempts more elective subjects (or optional subjects) than those required for graduation in or before the semester in which he becomes eligible for award, the elective subjects (or optional subjects) with a higher grade/contribution shall be included in the grade point calculation (i.e. the excessive subjects attempted with a lower grade/contribution, including failed subjects, will be excluded).

5.9 **Classification of Awards**

5.9.1 The following are guidelines for Board of Examiners' reference in determining award classifications:

Award	Guidelines for the awards
Distinction	The student's performance/ attainment is outstanding , and identifies him as exceptionally able in the field covered by the programme in question.
Credit	The student has reached a standard of performance which is more than satisfactory but less than outstanding .
Pass	The student has reached a standard of performance/ attainment ranging from just adequate to just satisfactory.

Award Classification	GPA or Weighted GPA		
Distinction	3.7 ⁺ to 4.0		
Credit	3.2^+ to 3.7^-		
Pass	2.0^+ to 3.2^-		

5.9.2 The following table may also be used as a reference for the Board of Examiners in determining award classifications:

"+" sign denotes 'equal to and more than'; "-" sign denotes 'less than'.

- 5.9.3 There is no requirement for Boards of Examiners to produce award lists which conform to the guidelines in above.
- 5.9.4 Students who have committed academic dishonesty will be subjected to the penalty of the lowering of award classification by one level. The minimum of downgraded overall result will be kept at a Pass. In rare circumstances where both the Student Discipline Committee and Board of Examiners of a Department consider that there are strong justifications showing the offence be less serious, the requirement for lowering the award classification can be waived.

5.10 Graduation

- 5.10.1 Students will be awarded a PgD without having to submit an application for graduation under the following conditions:
 - the Board of Examiners agrees that he/she is eligible for a PgD award and cannot be eligible for the Master's award (even though the MSc was the student's intended award); or
 - (ii) he/she has reached the end of the normal period of dissertation registration but has not obtained approval to extend his dissertation registration period from the Programme Leader and has fulfilled the requirement for a PgD award.
- 5.10.2 Students should be granted an MSc award without having to submit an application for graduation under the following condition:

he/she has fulfilled all the requirements for an MSc award.

5.11 Validity of Credits

5.11.1 The validity period of credits earned is eight years from the year of attainment, i.e. the year in which the subject is completed. Credits earned from previous studies should remain valid at the time when the student applies for credit transfer.

5.12 **Retaking of Subjects**

- 5.12.1 Students <u>may</u> retake any subject for the purpose of improving their grade without having to seek approval, but they <u>must</u> retake a compulsory subject which they have failed, i.e. obtained an F grade. Retaking of subjects is with the condition that the maximum study load of 21 credits per semester is not exceeded. Students wishing to retake passed subjects will be accorded a lower priority than those who are required to retake (due to failure in a compulsory subject) and can only do so if places are available.
- 5.12.2 The number of retakes of a failed subject is not restricted. Only the grade obtained in the final attempt of retaking (even if the retake grade is lower than the original grade for originally passed subject) will be included in the calculation of the Grade Point Average (GPA). If students have passed a subject but failed after retake, credits accumulated for passing the subject in a previous attempt will remain valid for satisfying the credit requirement for award. (The grades obtained in previous attempts will only be reflected in transcript of studies.)
- 5.12.3 In cases where a student takes another subject to replace a failed elective subject, the fail grade will be taken into account in the calculation of the GPA, despite the passing of the replacement subject.

5.13 Absence from an Assessment Component

- 5.13.1 If a student is unable to complete all the assessment components of a subject, due to illness or other circumstances which are beyond his/her control and considered by the subject offering department as legitimate, the Department will determine whether the student will have to complete a late assessment and, if so, by what means. This late assessment shall take place at the earliest opportunity, and before the commencement of the following academic year (except that for Summer Term, which may take place within 3 weeks after the finalisation of Summer Term results). If the late assessment cannot be completed before the commencement of the following academic year, the Faculty Board Chairman shall decide on an appropriate time for completion of the late assessment.
- 5.13.2 The student concerned is required to submit his/her application for late assessment in writing to the Head of Department offering the subject, with five working days from the date of the examination, together with any supporting documents. Approval of applications for late

assessment and the means for such late assessments shall be given by the Head of Department offering the subject or the Subject Lecturer concerned, in consultation with the Programme Leader.

5.14 Assessment to be completed

5.14.1 For cases where students fail marginally in one of the components within a subject, the BoE can defer making a final decision until the students concerned have completed the necessary remedial work to the satisfaction of the subject examiner(s). The remedial work must not take the form of re-examination.

5.15 Aegrotat Award

- 5.15.1 If a student is unable to complete the requirements of the programme in question the award, due to very serious illness, or other very special circumstances which are beyond his/her control, and are considered by the Board of Examiners as legitimate, the Faculty Board will determine whether the student will be granted an aegrotat award. An aegrotat award will be granted only under very exceptional circumstances.
- 5.15.2 A student who has been offered an aegrotat award shall have the right to choose either to accept such an award or request to be assessed on another occasion as stipulated by the Board of Examiners, the student's exercise of this option shall be irrevocable. The acceptance of an aegrotat award by a student shall disqualify him/her from any subsequent assessment for the same award. An aegrotat award shall normally not be classified, and the award parchment shall not state that it is an aegrotat award. However, the Board of Examiners may determine whether the award should be classified provided they have adequate information on the students' academic performance.

5.16 **Other Particular Circumstances**

5.16.1 A student's particular circumstances may influence the procedures for assessment but not the standard of performance expected in assessment.

5.17 Recording of Disciplinary Actions in Students' Records

- 5.17.1 With effect from Semester One of 2015/16, disciplinary actions against students' misconducts will be recorded in students' records.
- 5.17.2 Students who are found guilty of academic dishonesty will be subject to the penalty of having the subject result concerned disqualified and be given a failure grade with a remark denoting 'Disqualification of result due to academic dishonesty'. The remark will be shown in the

students' record as well as the assessment result notification and transcript of studies, until their leaving the University.

- 5.17.3 Students who have committed disciplinary offences (covering both academic and non-academic related matters) will be put on 'disciplinary probation'. The status of 'disciplinary probation' will be shown in the students' record as well as the assessment result notification, transcript of studies and testimonial during the probation period, until their leaving the University. The disciplinary probation is normally one year unless otherwise decided by the Student Discipline Committee.
- 5.17.4 The University reserves the right to withhold the insurance of any certificate of study to a student who has unsettled matters with the University, or subject to disciplinary action.

Section 6 - Programme Operation and Control

6.1 Frequency of Subjects to be Offered

6.1.1 Subjects are normally offered once a year. There are however, several common subjects shared by other programmes in the PolyU which may be available in both Semester's 1 and 2. Subject to the availability of resources, the Department will attempt to offer as many subjects as possible in both semesters. In all cases, students entering the programme will be able to complete all the requirements for the award in 4 years.

6.2 Evening, Weekend and Summer Teaching

6.2.1 The subjects for this award will usually be offered in the evenings and/or weekends during Semester 1 and 2. Subject to departmental resources, teaching may be provided in summer term.

6.3 Subject Registration and Withdrawal

6.3.1 In addition to programme registration, students need to register for the subjects at specified periods prior to the commencement of the semester. Students may apply for withdrawal of their registration on a subject after the add/drop period if they have a genuine need to do so. The application should be made to the relevant programme offering department and will require the approval of both the subject lecturer and the Programme Leader concerned. Application submitted after the commencement of the examination period will not be considered. For approved applications of subject withdrawal, the tuition fee paid for the subject will be forfeited and the withdrawal status of the subject will be shown in the examination result notification and transcript of studies but will not be counted towards the calculation of GPA.

6.4 Study Load

6.4.1 Students are not allowed to take zero subjects in any semester unless they have obtained prior approval from the Department; otherwise they will be classified as having unofficially withdrawn from their programme of study. Any semesters in which students are allowed zero subjects will be counted towards the maximum period of registration. Students will be responsible for ensuring that they complete their programme of study within the maximum period of registration. The latter are shown in Table 6.1 below.

- 6.4.3 Students enrolled on mixed-mode programmes are required to take 9 credits or more in a semester in order to retain full-time status. Otherwise, they will be given a part-time status.
- 6.4.4 To help improve the academic performance of students on academic probation, these students will be required to take a reduced study load in the following semester (Summer Term excluded). The maximum number of credits to be taken by the students varies accordingly to the policies of individual Departments and will be subject to the approval of the authorities concerned. (Note)

6.5 **Subject Exemption**

6.5.1 Students may be exempted from taking any specified subjects, if they have successfully completed similar subjects previously in another programme or have demonstrated the level of proficiency/ability to the satisfaction of the subject offering Department. Subject exemption is normally decided by the subject offering Department. If students are exempted from taking a specified subject, the credits associated with the exempted subject will not be counted towards meeting the award requirements (except for exemptions granted at admission stage). It will therefore be necessary for the students to consult the programme offering Department and take another subject in order to satisfy the credit requirement for the award.

6.6 Credit Transfer

- 6.6.1 Students may be given credits for recognised previous studies and the credits will be counted towards meeting the requirements for award. Transferred credits may be counted towards more than one award. The granting of credit transfer is a matter of academic judgment.
- 6.6.2 Credit transfer may be done with or without the grade being carried over; the former should normally be used when the credits were gained from PolyU. Credit transfer with the grade being carried over may be granted for subjects taken from outside the University, if deemed appropriate, and with due consideration to the academic equivalence of the subjects concerned and the comparability of the grading systems adopted by the University and the other approved institutions. Subject credit transfer is normally decided by the subject offering Department.
- 6.6.3 The validity period of credits previously earned is up to 8 years after the year of attainment.
- 6.6.4 Normally, not more than 50% of the credit requirement for award may be transferable from approved institutions outside the University. For transfer of credits from programmes offered by PolyU, normally not more than 67% of the credit requirement for award can be transferred. In cases where both types of credits are being transferred (i.e. from programmes offered by

PolyU and from approved institutions outside the University), not more than 50% of the credit requirement for award may be transferred.

- 6.6.5 If a student is waived from a particular stage of study on the basis of advanced qualifications held at the time of admission, the student concerned will be required to complete fewer credits for the award. For these students, the deducted credits at admission stage will be counted towards the maximum limit for credit transfer when students apply for further credit transfer after their admission.
- 6.6.6 All credit transfers approved will take effect only in the semester for which they are approved. A student who applies for transfer of credits during the re-enrolment or the add/drop period of a particular semester will only be eligible for graduation at the end of that semester, even if the granting of credit transfer will immediately enable the student to satisfy the credit requirement for the award.
- 6.6.7 For credit transfer of retaken subjects, the grade attained in the last attempt should be taken in the case of credit transfer with grade being carried over. Students applying for credit transfer for a subject taken in other institutions are required to declare that the subject grade used for claiming credit transfer was attained in the last attempt of the subject in their previous studies. If a student fails in the last attempt of a retaken subject, no credit transfer should be granted, despite the fact that the student may have attained a pass grade for the subject in the earlier attempts.
- 6.6.8 Students should not be granted credit transfer for a subject which they have attempted and failed in their current study unless the subject was taken by the student as an exchange-out student in his/her current programme.

6.7 **Deferment of Study**

6.7.1 Students may apply for deferment of study if they have a genuine need to do so such as illness or posting to work outside Hong Kong. Approval from the Department is required. The deferment period will not count towards the maximum period of registration.

6.8 **Registration Period**

6.8.1 Subjects within the programme will be offered often enough to enable students entering the programme with the minimum admission requirements and undertaking the normal study pattern to complete the award requirements within the normal duration, this is specified below in Table 6.1.

Award	Normal Duration	Maximum Registration Period
MSc in Knowledge Management (Part-time)	2 Years	4 Years
MSc in Knowledge Management (Full-time)	1 Year	4 Years

Table 6.1 Normal Study Duration and Maximum Registration

6.9 **Compulsory Graduation**

6.9.1 As soon as students have satisfied the criteria for graduation in the programme, they will be required to graduate. This requirement has been stipulated in order to ensure the most efficient use of the PolyU resources.

6.10 Departmental Postgraduate Programme Committee

6.10.1 The Head of Department can decide on the composition of the Departmental Postgraduate Programme Committee. The Departmental Postgraduate Programme Committee will meet at least twice a year, and additionally at the request of the Chairman or of one-third of its membership or of the Chairman of the Senate. It will exercise the overall academic and operational responsibility for the programme and its development within defined policies, procedures and regulations.

The Committee will be specifically responsible for the following:

- (i) the effective conduct, organisation and development of the programme;
- stimulation of the development of teaching methods and programme materials, through Heads of Departments, Theme Group Leaders, and the Educational Development Centre, as appropriate;
- (iii) review of academic regulations, admission policy, assessment and examination methods;
- (iv) formal submissions to appropriate professional bodies, normally via the Head of the host Department and in accord with the University's established procedures;
- (v) the continuing critical review of the rationale, aims, intended learning outcomes

(ILOs) and the alignment of teaching, learning and assessment with the ILOs, programme learning outcomes assessment and its results, and the improvement and development of the programme(s);

- (vi) definition and maintenance of the programme's academic standard;
- (vii) ensuring that the views of students and other key stakeholders on the programme are known and taken into account;
- (viii) evaluation of the operation, health and progress of the programme as defined in the University's programme review procedures.

6.11 **Programme Leader**

6.11.1 A Programme Leader will normally be a member of the programme offering Department and be appointed by the Head of Department. The appointment will be subject to the confirmation by the Chairman of the appropriate Faculty Board. In the unavoidable absence of a Programme Leader, an acting Programme Leader will be appointed by the Head of the programme offering Department. A Programme Leader is accountable in day-to-day operational terms to the Head of Department; and will normally hold office for a full cycle of the programme, but can then be considered for re-nomination. The Programme Leader will provide the academic and organizational leadership for the programme.

6.12 **Programme Executive Group**

6.12.1 For programmes which are substantial, e.g. in scale, in the range of subjects or complexity, a small Programme Executive Group, would normally manage the day-to-day operation of the programme within the agreed scheme. The Group would operate informally, be organized by the Programme Leader and typically include staff with key programme responsibilities. For relatively simple programmes, the Programme Leaders would manage the day-to-day operation of the programmes.

6.13 Theme Group Leaders

6.13.1 Theme Group Leaders are senior members of academic staff appointed by the Head of Department. They are responsible for the activities and development of subjects within a theme group which are part of the curricula of the programmes offered by the Department.

6.14 Student/Staff Consultative Group

6.14.1 The importance of assessing students' opinion on the organisation and running of the programme on a continual basis is recognised and formal arrangements for this purpose are in place. The Group should have equal numbers of students and staff, that student membership should include all years of study under the normal progression pattern and other major student groupings, and that staff membership should cover all the main subject areas and activities of the programme. A member of staff may chair the Group. The Group is to discuss any matters directly related to the programme, and to report or make recommendations, as deemed necessary, to the Departmental Postgraduate Programme Committee. Meetings are usually held once per semester.
6.14.2 It is important that students do not perceive meetings of the Group as the only or main channel for dealing with student problems and complaints accumulated since the last meeting. Such matters would be dealt with when they occurred, through the Programme Leader or other appropriate staff. This would allow meetings of the Group to be used for constructive discussion of the programme in general, of the demands of the programme on students, and of possible improvements.

Section 7 - Programme Evaluation and Development (PED)

- 7.1 The PED procedures are intended to assess the:
 - (i) extent to which the aims and objectives are being met and what measures need to be taken to remedy any deficiencies identified; and
 - (ii) continuing relevance of the aims and subject objectives and the ways they need to be modified to take account of technological change and the development of Hong Kong's industries.
- 7.2 The programme evaluation procedures are conducted at two levels: firstly at the Programme Executive Group / Departmental Postgraduate Programme Committee level continuously through the year and secondly to the Departmental Postgraduate Programme Committee/Departmental Academic Advisor level at the end of each year. The first level is described in Section 6 of this document and the other below.
- 7.3 The Department Postgraduate Programme Committee holds its Annual Programme Review Meeting each year after the BoE has met as described in Section 5 of the DPD. The issues described in Section 6 are considered, particularly as revealed by examination performance, and recommendations for action are made to remedy any deficiencies identified. Following the Annual Programme Review Meeting, the Programme Leader submits the Annual Programme Report (which is encapsulated as part of the Department's Business Plan) to the Engineering Faculty Board each year which for the previous academic year,
 - (i) summarises the operation of the programme;
 - (ii) lists any modifications that are deemed necessary; and
 - (iii) proposes substantial changes to the structure or content of the programme, or for changes with significant resource implications.
- 7.4 The Department Postgraduate Programme Committee adopts a policy of continuous improvement and is continuously evaluating the effectiveness and relevance of the Programme. This policy of continuous improvement includes soliciting the views of the Department's Advisory Committee, local industrialists, graduates, and the Department Academic Advisor.
- 7.5 The Programme is subject to an evaluation, normally every six years, as part of the PolyU's Departmental Assessment exercise. This is external to the Department and makes a critical appraisal of the standing, progress, and future of all programmes that a department operates. The policy of continuous improvement as mentioned in 7.4 attempts to render a major in-depth programme appraisal unnecessary prior to a Departmental Assessment.

Section 8 - Subject Syllabi

Syllabi for all subjects and projects of the programme are listed in Table 8.1. ISE subjects are listed first, followed by subjects serviced by other departments. The subject coordinators for the ISE subjects will be updated regularly. Please access the departmental website <u>http://www.ise.polyu.edu.hk/programmes/info/ss</u>.

Level	Code	Subject	Page
		COMPULSORY	
5	ISE542	Managing Knowledge	8-2
5	ISE543	Methods and Tools for Knowledge Management Systems	8-9
5	ISE5600	Organisational Learning: Methods and Practices	8-13
5	ISE5601	Managing and Measuring Intellectual Capital	8-17
5	ISE5604	Strategic Issues and Case Studies in Knowledge Management	8-23
		CORE	
5	ISE549*	Management of Innovation and Technology	8-27
5	ISE5024	Knowledge Based Service Innovation	8-31
5	ISE5603	Enterprise Knowledge Portals	8-36
5	ISE5605	Knowledge Communities	8-40
5	ISE5606	Business Intelligence and Data Mining	8-44
5	ISE5607	E-Learning Technologies and Practices	8-47
		ELECTIVE	
5	ISE518*	Workflow Design and Management	8-51
5	ISE526*	Enterprise Resource Planning	8-56
5	ISE553*	Managing Six Sigma	8-60
5	ISE5018*	Intellectual Property Management and Strategies	8-64
5	ISE5699	Dissertation	8-69
5	MM511*	Managing Organizations and People	8-72
5	MM521*	Leading Change	8-77

Table	8.1	Syllabi	Index
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* Subjects offered by other programmes with limited quota. There is no guaranteed quota.

Subject Code	ISE 542					
Subject Title	Managing Knowledge					
Credit Value	3					
Level	5					
Pre-requisite / Co-requisite/	Mutual Exclusion of ISE531 Principles of Knowledge Engineering and Management and ISE458 Introduction to Knowledge Management					
Exclusion	Wanagement and ISE+56 Introduction to Knowledge Wanagement					
Objectives	The aims of the subject are to:					
	1. Introduce the students the foundations of KM.					
	2. Provide the students with an insight and introductory working knowledge to allow them to effectively apply KM in organizations to achieve their objectives and lead and promulgate KM efforts for business effectiveness and success.					
	3. Equip the students with the practitioner understanding and proficiency to initiate, assess, operate, disseminate, and manage KM practices, projects, programs, and other KM efforts with an enterprise.					
Intended Learning	Upon completion of the subject, students will be able to:					
Outcomes	a. understand the concepts and ethical issues in KM					
	b. select and devise KM strategies, programmes and actions to provide effective business support					
	c. conduct knowledge audit and use of various knowledge audit methods for analyzing and reporting findings for KM related planning					
	d. To conduct a feasibility study on the implementation of knowledge management projects in an organization.					
Subject Synopsis/ Indicative Syllabus	The subject aims to introduce the students to the foundations of KM. It is designed to provide the students with KM practitioner understanding of how KM					

	fits into, and supports business operations with the further understanding of how
	KM is conducted from a system approach. Some of the key topics covered in
	this subject include:
	Knowledge Management Essentials
	Evolution of knowledge, theory and concepts of KM, Type of knowledge, nature
	of knowledge work
	Managing Knowledge Processes
	Various knowledge processes and their applications, methods and tools for
	managing knowledge processes
	Knowledge Auditing
	Role and importance of knowledge audit, knowledge audit process and
	practices, methods and tools for conducting knowledge auditing, analysis and
	reporting the results of a knowledge audit
	Knowledge Management Related Strategies
	KM strategy and how to manage culture aspects, and initiatives of KM, People-
	centric and IT-based KM from business perspectives based on understanding
	that business performance results from knowledgeable (competent), motivated,
	and accountable human actions, in part supported by IT capabilities.
	Knowledge Management Practices
	KM practices in different industries, the management of KM projects, ethical
	issues in KM, case studies
Teaching/Learning Methodology	This subject is offered in a blended mode of e-learning and face-to-face teaching
Wiethodology	is used to facilitate the students to learn. A mixture of e-learning, instructor-lead
	tutorials and workshops, and case studies will be used to deliver the topics in
	this subject. Case studies, largely based on real case will be used to
	demonstrate to students how the latest techniques can be applied to improve the
	real life situations.
	The students can access the Plackboard a learning platform which contains
	The students can access the Blackboard e-learning platform which contains
	interactive online materials for the lessons. Each of the lessons may incorporate
	designated reading (chapters, sections, pages) in the textbook and recommended
	readings in the form of separate articles and papers which are available online

	or at the library. In all lessons, animations and interactive games have been added in appropriate locations to facilitate and strengthen learning and understanding. A number of self-assessment exercises are also included to enable participants to monitor their personal progress.								
	In addition, the Blackboard platform supports peer-to-peer activities in form of online chat forums and bulletin boards. This peer-to-peer interaction not only enhances knowledge sharing and learning from peers but also helps strengthen or clarify concepts delivered in lecture materials. Participants are strongly encouraged to make effective use of all learning tools available to optimise their learning in this subject.								
	To facilitate the students to learn, the students are also expected to participate in instructor led face-to-face or on-line teaching activities which include workshop, tutorials, seminars, etc. The students will also get in touch with the facilitators through the bulletin board discussions.								
	Some of the teaching activities will be covered in a problem-based format where this enhances the learning objectives. Others will be delivered directly through directed study in order to enhance the students' ability of "learning to learn". Mini-project will be used to integrate these topics and thus demonstrate to students how the various techniques are inter-related and how they apply in real life situations. Cross fertilization of ideas and experiences of students through discussions and presentations are highly encouraged.								
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks	% weighting	be as	ssessed		arning c	outcome	es to	
Outcomes	1 Individual assignment	15%	A ✓	b v	c	d			
	1.Individual assignment 15% ✓ ✓ 2. Presentation 8% ✓ ✓ 2. Group assignment 12% ✓ ✓								
	3.Perosnal Learning Environment and Network (PLE&N)	10%	~	~	~	~			

	4. Open Book Examination	55%	~	√	√	√		
	Total	100 %						
	Basically, the assessment method of the subject is composed of coursework and examination. The coursework assessment includes individual assignment, personal learning environment and network (PLE&N) board, presentation and report for KM strategy workshop. Written examination will be arranged at the end of the semester. All assessment components will require students to apply what they have learnt to realistic work applications.							
	A student is expected to perform satisfactorily in BOTH the coursework and the examination. The subject coordinator can exercise discretion to alter the final subject result should there exists significant variation in a participant's performance in these 2 components.							ne final
	The individual assignment facilitates the students to reflect what they learn in learning outcomes (a) and (b). The presentation and group assignment for KM strategy workshop provide a team work environment for facilitates the students to apply the concepts, theory and skills learnt in the subject for a real life scenario (e.g. Learning Outcomes (c) and (d)).						for KM tudents	
	Every student is required to set up a personal learning environment and network (PLE&N) and contributes to discussions and learning in this environment during the semester and beyond (Learning outcomes (a) to (d)). An open book examination is held at the end-of-semester which aims at assessing students' understanding of the theory, concepts and knowledge necessary for achieving the learning outcomes (a) to (d) for the subject.							
Student Study	Class contact:							
Effort Required	On-line Lectures/Seminars 3 hours x 2 weeks, 2 hours x 1 week							3 Hrs.
Face-to-face Lectures/Presentations/Tutorial/Workshop 3 hours x 9 weeks								7 Hrs.
	Wiki/Bulletin Board contributions 1 hour per week x 7 weeks							7 Hrs.

	Other student study effort:	
	Study and self learning including workshop	28 Hrs.
	Preparation and revision	20 Hrs.
	Assignment and report writing	28 Hrs.
	Total student study effort	118 Hrs.
Reading List and	Recommended Reading	
References	 Davenport, T.H. and Prusak, L., Working Knowled Manage What They Know, Harvard Business Sch Despres, C. and Chauvel, D. (Editors), Knowledg and the Promise of Knowledge Management, But Boston, 2000. Filemon A. Uriarte, Jr. Introduction to Knowledg Foundation, Jakarta, Indonesia, 2008. Kimiz Dalkir, 2005, Knowledge Management in Elsevier Butterworth–Heinemann., UK, 2005. Klein, G., Sources of Power: How People Make I Cambridge, 1998. Liebowitz, J. (Editors), Knowledge Management Boca Raton, 1999. Stewart. T.A., Intellectual Capital: The New Weat Currency Doubleday, New York, 1997. Sveiby, K.E., The New Organizational Wealth: M Knowledge-based Assets, Berrett-Koehler, San Fr Tiwana, A., Knowledge Management Toolkit, Pre 2002. Wiig, Karl, People-Focused Knowledge Manager Decision Making Leads to Corporate Success, Bu 2004. Cheung, C.F., Lee, W.B., Wang, W.M., Chu, K.F perspective Knowledge-based System for Custon Management", Expert Systems with Applications, 470 (2003). 	 and Press, 1997. are Horizons: The Present eterworth-Heinemann, are Management, ASEAN Theory and Practice, Decisions, MIT Press, Handbook, CRC Press, Alth of Organizations, Managing & Measuring rancisco, 1997 entice hall, 2nd Edition, ment: How Effective atterworth-Heinemann, F. and To, S. "A Multi- ner Service

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	Extraction and Representation System for Narrative Analysis in the
	Construction Industry", Expert Systems with Applications, Vol. 41, No.
	13, p.5710-5722 (2014).
27.	Zeno Leung, C.S., Cheung, C.F., Chu, K.F., Lee, W.B. and Wong, Y.W.
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Subject Code	ISE543
Subject Title	Methods and Tools for Knowledge Management Systems
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Nil
Objectives	Students are expected to have an overall understanding of the major issues related to the role, alignment, and deployment of Knowledge Management Systems (KMS) in organizations. Techniques for organizing and searching knowledge, and assessment of technical infrastructure are also discussed. Students are expected to gain a holistic and in-depth understanding of many KM-related technologies and their evolution, as well as be able to relate and assess its suitability for their own organizations.
Intended Learning Outcomes	 Upon completion of the subject, students will be able to a. gain an overall understanding of the prevailing methods and common technologies related to managing knowledge individually and in organizations; b. apply KM-related methods and technologies to the multiple stages and needs of a KM program (e.g., project identification and ranking, resource building, knowledge creation, sharing, and operation); c. critically examine various techniques for organizing and searching for knowledge and assessment of technical infrastructure; d. gain a holistic and in-depth understanding of many KM-related technologies, relate and assess their suitability to their own organizations, and derive a customized roadmap for the deployment of such technologies/systems.
Subject Synopsis/ Indicative Syllabus	 This subject introduces students to the various types of technologies that support knowledge creation, collection, valuation, and collaboration systems commonly used in organizations. Key topics include 1. the origin, evolution, and role of Knowledge Management Systems, the deployment of a Knowledge Management System, digitalization of knowledge, and associated business models; 2. core KM technologies: Search, categorization/taxonomy, and classification systems, artificial intelligence, collaborative systems, Enterprise Knowledge Management – Skills, technologies, and synergy with Enterprise Knowledge Management;

	4. Web 2.0, social software, security and quality of content						
Teaching/Learning Methodology	Interactive and multimedia online learning materials are available to students for self-directed learning. Online quizzes, discussion forums, email support, and supplementary face-to-face instructor-led seminars/workshops are also conducted to facilitate students' learning. Case studies are used to expose students to real-world situations and constraints. They are asked to formulate various strategies and/or solutions to problems identified.						
	Teaching/Learning	Intended	5	learning ssessed	outcom	es to	
	Methodologies	a	b	c		d	
	Lecture	✓	~	~		\checkmark	
	Tutorial		✓	✓			
	Personal Learning Environment and Network (PLEN)	~	~	~		~	
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks	% weighting	Intende	ed sub	0	earning I	
Outcomes			a b c d				
	1. Tutorial/workshop exercise (on a topic discussed during the activity)	15%					
	2. Bulletin board (on a wide range of issues covered in the subject)	10%	~	√	~	~	

		2004				
	3. Assignment [on the deployment, assessment, applications of KM System(s)]	20%	~	~	~	~
	4. Examination	55%	~	~	~	~
	Total	100%				
	ntation, omprehence ics cover nologies y to sup els. The a y not o ilso ensu	and sh nsively g red in the to solve pport kn above as nly cate are the st	ogies that aring of gauge the e subject. e business nowledge essessment er to the udent, by e desired			
Student Study	Class contact:					
Effort Expected (Block Mode / Evening Mode)	Face-to-face lectures/presentations Aode / A hours per week x 7 weeks					21 Hrs.
						4 Hrs.
 Wiki/Bulletin Board contributions 1 hour per week x 13 weeks + 1						14 Hrs.
	Other student study effort:					
	 Study of online content 2 hours per week x 13 weeks 					
 Preparation and revision 						26 Hrs.

	 Assignments and projects 	26 Hrs.
	Total student study effort:	117 Hrs.
Reading List and References	Textbook: Tiwana, A. 2003, <i>The Knowledge Management Toolkit: Orch.</i> <i>Strategy, and Knowledge Platforms</i> , 2nd Edition, Pearson Edu References:	ucation
	 Becerra-Fernandez, I. and Sabherwal, R. 2015, management Systems and Processes, 2nd Edition, Rour York 	0
	2. Rao, M. 2012, <i>Knowledge Management Tools and</i> Elsevier Butterworth-Heinemann, Amsterdam	Techniques,
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Subject Code	ISE5600
Subject Title	Organizational Learning: Methods and Practices
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Pre-requisite : ISE542
Objectives	The objectives are to provide students with
	1. an understanding of the evolution of organizational learning;
	2. an appreciation to identify the characteristics and limitations of learning organizations;
	3. a working knowledge of various tools in team learning, such as action science, systems thinking, scenario planning, and storytelling;
	4. an understanding of the barriers involved in organizational learning.
Intended Learning	Upon completion of the subject, students will be able to
Outcomes	a. critically examine various theories, their rationale, and their applicability in achieving organizational learning;
	b. apply appropriate learning strategies in an organizational setting;
	c. select and test various inquiry techniques to influence personal to organizational transformation;
	d. differentiate various organizational barriers and strategic inertia for organizational change;
Subject Synopsis/	1. <u>Introduction to Organizational Learning</u>
Indicative Syllabus	The importance of learning; Searching for an excellent organization; Defining a learning organization; Organizational learning vs. learning organization.
	2. <u>The Process of Organizational Learning</u>
	Defining learning; Theories of learning; Motivators of learning; Organizational learning framework; Methods of organizational learning.
	3. <u>The Art of Organizational Learning</u>
	Identifying how organizations can learn; Building a knowledge work

		team; Sharing mental m	odels: Fac	ilitation of	team learn	ing. Learning		
	for action and change.							
	4. Systems Thinking: Managing Chaos and Complexity							
		Flaws in the current Connections," a system dynamics; Soft systems	n view of c			e		
	5.							
	"The journey to social complexity, Learning from scer storytelling organization-related and sense-making method							
	6.	Organizational Forgetti	ng and Un	<u>learning</u>				
		Understanding organiza			•	nesia, theories		
	7.	Building Learning Org	anizations					
		"The journey to becoming a learning organization," exploring changes from personal to organizational transformation; Assessing the learning organization.						
Teaching/Learning Methodology		he teaching will be conducted in a blended learning mode in which both ace-to-face and online learning materials are used to self-directed reading.						
		Teaching/Learning				outcomes to		
		Methodologies	a	b	с	d		
		Lecture	~	~		\checkmark		
		Tutorial	~	~	~	✓		
		Personal Learning Environment and	~	~	~	~		
		Network (PLEN)			<u> </u>			

A							
Assessment Methods in Alignment with	Specific assessment methods/tasks	% weighting		nded sub comes to	•	-	
Intended Learning Outcomes			а	b	c	d	
	1. Personal Learning Environment and Network (PLEN)	15%	✓	~	~	*	
	2. Reflective Journal and Critique	30%	✓	~	~	✓	
	3. Assignment	30%		~	~		
	4. Test	25%	\checkmark	~	~	~	
	Total	100%					
	student learning of the sub is assessed. The reflective the subject; it covers all project. The assignments attended by the students; for the test, students are subject, and hence, all lear	journal is a cr learning outc are reports of they address le required to ir	itique of comes, e n the ac earning ntegrate	f what str except for etion lear outcome all their	udents le or the ir rning we s (b) and learning	earned in adividual orkshops d (c). As g on the	
Student Study	Class contact:						
Effort Expected (Mixed Mode)	 Face-to-face lectures/workshops/presentations 3 hours per week x 5 sessions 						
	 On-line learning and Personal Learning Environment and Network (PLEN) 24 Hrs. 2 hour per week x 12 weeks 					4 Hrs.	
	Other student study effort:						
	Directed Reading and	d Self Study			20	5 Hrs.	

	2 hours per week x 13 weeks					
	 Case-based Project/Assignments 	40 Hrs.				
	Total student study effort 107 Hr					
Reading List and References	 Senge P.M. (2010). <i>The Fifth Discipline: The Art and the Learning Organization (3rd ed.)</i>. Doubleday/Currer York. [Highly recommended] Argyris, C. (1978). <i>Organizational Learning: A Theor Perspective</i>. Addison-Wesley, Reading, Massachusetta 	ncy, New				

Subject Code	ISE 5601
Subject Title	Managing and Measuring Intellectual Capital
Credit Value	3
Level	5
Pre-requisite / Co-requisite/ Exclusion	None
Objectives	This subject aims to provide students with:
	1. Working knowledge of different elements of intellectual capital and deriving values from intellectual capital
	2. The theory and practice for the strategic management of intellectual capital and its life cycle of implementation
	3. Understanding with different approaches for measuring and reporting value of intellectual capital
Intended Learning	Upon completion of the subject, students will be able to:
Outcomes	a. identify and differentiate fundamental elements of intellectual capital and intellectual capital management
	b. familiarize with the value chain of intellectual capital and activities for deriving values from intellectual capital
	c. apply, justify and implement appropriate approach for the management of intellectual capital as a strategic resource
	d. apply appropriate approaches for measuring and reporting value of intellectual capital
Subject Synopsis/ Indicative Syllabus	This subject is to provide an overview of methods and approaches to manage and measure knowledge-based assets, and show the critical importance of various intellectual capital and intangible assets management approaches to

	the success of knowledge management initiatives and strategies. The following topics are covered:
	 Intellectual capital management foundations Evolution of intellectual capital and its business value Definitions and conceptual differences of intangible assets, knowledge-based assets and intellectual capital Legal management of intellectual capital Converting Intellectual Capital to Value Value chain of intellectual capital Value creation and value extraction activities for converting intellectual capital to value Major types of intellectual capital management activities that facilitate value creation and extraction Measuring and Reporting Intellectual Capital Established models for measuring intellectual capital and corporate performance e.g. Balanced Score Cards, intellectual capital statement, intangible asset monitor, Skandia Navigator, etc. Methods and tools for reporting intellectual capital in organizations Implementation of Intellectual Capital Management Programme Intellectual capital implementation approaches with emphasis on Comprehensive Intellectual Capital Management (CICM) model and
	 its implementation Case studies
Teaching/Learning Methodology	As shown in Table 1, this subject is offered in a blended mode of online learning and face-to-face teaching. A mixture of e-learning, instructor-lead tutorials and workshops, and case studies will be used to deliver the topics in this subject. Case studies, largely based on real case will be used to demonstrate to students how the latest techniques can be applied to improve the real life situations.

	subject. To facilitate the students to learn, the students are also expected to partic instructor lead face-to-face teaching activities which include works tutorials, etc. Some of the teaching activities will be covered in a problem-based for where this enhances the learning objectives. Others will be delivered dir through directed study in order to enhance the students' ability of "lear to learn". Mini-project will be used to integrate these topics and demonstrate to students how the various techniques are inter-related and they apply in real life situations. Cross fertilization of ideas and experies of students through discussions and presentations are highly encourage Table 1				orksh ed forn d direc "learn and t and h perien raged.	mat ctly ing hus iow ices	
	Teaching/Learning Methodology		-		ing outco	omes	-
	1. Lectures/Online Guest Lecture	a √	b √	c √	d √		-
	2. Interactive Online Materials	 √	√ √	 √	J		-
	3. Workshops	V			J		-
	4.In-class Case Studies and Tutorials	V	J		J		
	5.Mini-project	V	J	V	J		
Assessment Methods in Alignment with Intended Learning Outcomes	As shown in Table 2, the assessmen coursework and examination. The workshop assignment, and group min arranged at the end of the semester. A students to apply what they have leas The workshop assignment is provide and skills of the students to use and during the workshop and classes when	he cour ni-projec All asses rnt to rea led to as l practic	rseworl ct. Wri ssment alistic v ssess th e the r	c asses tten exa compor vork ap ne techr nethods	ssment aminatio nents wi plication nical cor s and too	inclu n will ll requ ns. npeter	ides I be uire ncy arnt

	analyzing and solving problems in managing and measuring IC for a real life							
	scenario (e.g. Learning Outcomes (a) to (d)).							
	The end-of-semester open book examination aims at assessing students' understanding of the theory, concepts and knowledge necessary for achieving the learning outcomes (a) to (d) for the subject.							
	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed					omes
			a	b	с	d		
	 Workshop assignment Presentation of mini- 	15% 10%	✓ ✓	✓ ✓		✓ ✓		
	project 3. Written report for mini-project	15%	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
	4. Open book examination	60%	~		✓	✓		
	Total	100 %						<u> </u>
	A participant is expected t and the examination. The the final subject result participant's performance	subject coord should there	inator e exis	can ex ts sig	cercise	e discre	etion to	o alter
Student Study	Class contact:							
Effort Required	Face-to-face Lectures/ Tutorials/Workshops/Presentations 39 Hrs. 3 hours x 13 weeks						Hrs.	
	Other student study effort:							
	Individual Assignment and Workshop 30 Hrs.						Hrs.	
	• Study and self learning	ng					22	Hrs.
	 Mini-project and assi 	gnments					24	Hrs

	Total student study effort	115 Hrs
Reading List and References	 Al-Ali, N. (2003) Comprehensive Intellectual Capita by-Step. John Wiley & Sons, Inc., Hoboken, New J 	• •
	2. Andriessen, D. & Stam, C. (2004). The Intelle	ctual Capital of the
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	6. Cai, Linlin, Tsui, Eric and Cheung, Chi Fai "An Exp	
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	Matera, Italy, p.2952-2966 (2014).	
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	Intellectual Capital: A Case Study in a Supply	•
	Proceedings of 3rd International Conference on	U
	Knowledge Management and Organisational Learn	1
	October 19-20, Pontificia Universidad Católica de C	0
	p.99-105 (2006).	· · · · ·
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	"Knowledge-based Extraction of Intellectual Capita	

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	11. Intellectual Property Department, The Government of the Hong Kong
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	$http://www.ipd.gov.hk/eng/pub_press/publications/IC_Statement.pdf.$
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	SAR (2009). Intellectual Capital Statements of Organisations in Hong
	Kong in 2009,
	http://www.ipd.gov.hk/eng/ICM/intellectual_capital_statements_09.htm.
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	SAR. (2010). Intellectual Capital Statements of Organisations in Hong
	Kong in 2010,
	http://www.ipd.gov.hk/eng/ICM/intellectual_capital_statements_10.htm.
	14. Stam, C. D. (2007). Knowledge productivity. Designing and testing a
	method to diagnose knowledge productivity and plan for enhancement.
	15. Sullivan, P. H. (2000). Value-Driven Intellectual Capital: How to Convert
	Intangible Corporate Assets into Market Value. John Wiley & Sons, Inc.,
	Hoboken, New Jersey
	16. Sveiby, K. E. (1997). The New Organizational Wealth: Managing &
	Measuring Knowledge-Based Assets. Berrett-Koehler Publishers, San
	Francisco.
	17. Edvinsson, L. and Malone, M.S. (1997). Intellectual Capital: Realizing
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	18. Low, J. and Kalafut, P.C. (2002). Invisible advantage: How Intangibles
	are Driving Business Performance, Perseus Publishing, Cambridge
	19. Stewart, T.A. (1998). Intellectual Capital: The New Wealth of
	Organizations, Nicholas Brealey, London.
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	Dividend: Creating High-Performance Companies through Value-Based
	Knowledge Management, Financial Times Prentice Hall, London.

Subject Code	ISE5604							
Subject Title	Strategic Issues and Case Studies in Knowledge Management							
Credit Value	3							
Level								
Pre-requisite	E542 and ISE543							
Objectives	E542 and ISE543 his subject aims to familiarize the students with advanced topics and search findings from knowledge management (KM) literature and speriences from implementation. It also aims to equip students with a eneral management and strategic know-how of designing, deploying, and anaging the implementation of knowledge-based strategies using nalitative tools, narratives, soft system methodologies, and case ethods/action learning, among others.							
Intended Learning Outcomes	 Upon completion of the subject, students will have the ability to a. demonstrate understanding of strategic issues and advanced KM concepts, as well as provide effective KM practices and initiatives; b. apply qualitative tools and methodologies when dealing with real life KM strategic issues; c. identify the available KM standards and frameworks, as well as articulate and identify the role and applications of KM in areas of innovation, artificial intelligence, and social services. 							
Subject Synopsis/ Indicative Syllabus	 Knowledge Management Frameworks and Standards National and international standards and frameworks for designing and deploying a KM program; Limitations of a framework and standards. <u>Innovation</u> Process for innovation; Knowledge creation and innovation management. <u>Artificial Intelligence</u> Relationship between artificial intelligence and KM; Common techniques and applications of artificial intelligence. 							

	4. <u>Knowledge Manageme</u>	nt in Social Ser	vices								
	Social work as a knowl			otential	applications						
	of KM in social work. 5. <u>Knowledge Management Project</u>										
	Problem identification, assessment, and solution recommendation for a real life project in KM.										
Teaching/Learning Methodology	Interactive and multimedia online learning materials are made available to students for self-directed learning. Online quizzes, discussion forums, email support, and supplementary face-to-face instructor-led seminars are also provided to facilitate student learning.										
	Teaching/Learning Intended subject learning outcomes to be assessed										
	Methodologies	a	b		с						
	Lecture	\checkmark	\checkmark	✓							
	Seminars	~	\checkmark								
	Case studies	~	\checkmark	~							
	Personal Learning Environment and Network (PLEN)	~	~	✓							
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed								
Outcomes			a	b	c						
	1. Bulletin Board	15%			~						
	2. Case Study	30%	~		~						
	3. Guided-project	55%	~	~							
	Total	100%									

	This subject is a mix of online study and exploration of simulated consultancy (real world) project. The combination of assessment methods is designed specifically to achieve the desired learning outcome. Students are asked to contribute their opinion and actively participate in discussions covering a comprehensive set of issues (e.g., innovation, KM standards, artificial intelligence, and social services). The case study tests the student's mastery of the topics, as well as their ability to apply KM to solve the revealed problem(s). The project is a significant component of the study; students are required to apply the learnt concepts in this and other subjects, thereby manifesting comprehensive learning.								
Student Study	Class contact:								
Effort Expected (Block Mode /	5. Face-to-face lectures/seminars/presentations 6 hours per week x 4 weeks	24 Hrs.							
Evening Mode)	 Guest lecture/seminar 2 hours per week x 1 week 	2 Hrs.							
	7. Bulletin Board participation 1 hour per week x 13 weeks								
	Other student study effort:								
	8. Study of online content 1 hours per week x 13 weeks	13 Hrs.							
	9. Preparation and revision	28 Hrs.							
	10. Assignments and projects	40 Hrs.							
	Total student study effort	120 Hrs.							
Reading List and References	 Kouzes, J.M. 2012, The Leadership Challenge: He Extraordinary Things Happen in Organizations, 5rd Bass, San Francisco 								
	2. Rosenberg, M.J. 2001, <i>E-Learning: Strategies for Knowledge in the Digital Age</i> , McGraw-Hill	r Delivering							
	 Firestone, J.M. and McElroy, M.W. 2003, Key Issues Knowledge Management, KMCI Press, Butterworth Burlington 								

4.	Tiwana, A. 2000, <i>Essential Guide to Knowledge Management: The</i> <i>E-Business and CRM Applications</i> , Prentice Hall, Upper Saddle
5.	Cope, M. 2003, Personal Networking: How to make your connections count, trans- Atlantic
6.	Oram, A. 2001, <i>Peer-to-Peer: Harnessing the Power of Disruptive Technologies</i> , O'Reilly
7.	Hlupic, V. 2002, Knowledge and Business Process Management, Idea Group
8.	AS 5037 2005, Knowledge Management Standard, SAI Global, Sydney
9.	BEA 007, 2003, <i>Case Studies in Knowledge Management</i> , Vol. 2, SAI Global, Sydney

Subject Code	ISE549
Subject Title	Management of Innovation and Technology
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Nil
Objectives	This course starts with the assumption that technology always evolves. It is often observed that when technology changes, some firms dominate the market, while many others lose their market share; some deteriorate to the point where they totally exit the market. This course is designed to provide an understanding of the relationships between technology evolution and firm strategies and their influence on firm/market performance. In particular, this course focuses on the analysis of technology evolution, industry evolution, and attempts to provide insights on firm strategies. Students will learn about a variety of tools and concepts to address firm strategies in the face of technology evolution, and to approach them from industry-level perspectives. Through readings, lectures, class discussions, and individual/group projects, students will learn to apply the tools and concepts to decisions related to technology, and will develop an understanding of their potentials and limitations in various contexts.
Intended Learning Outcomes	 Upon successful completion of the subject, students will be able to a. comprehend and analyse the fundamental issues and challenges of technology management, new product development, and innovation management within an organisational context; b. follow an organisational process model for managing technology, and new product or innovation management; c. possess the insights necessary to function as an effective general manager in managing the innovation process and avoid common errors and misperceptions; d. link technology and innovation decisions to a company's strategic planning and operational management processes; e. identify and formulate managerial strategies applicable to new venture projects that involve technology and innovation.

Subject Synopsis/ Indicative Syllabus	1.	Importance of Technology and Innovation in Economic and Social Development
		Risks and rewards of technological innovation; role of government policy in promoting technology and innovation; role of firm-level strategy in the global market
	2.	Importance of Technological Evolution
		Lessons regarding the evolution of technology; the main concept of competition changes in accordance with the technological evolution
	3.	Importance of Innovation Diffusion and Innovation Types
		Understanding on factors affecting innovation adoption; Diverse types of innovations; the heterogeneous impact of diverse innovations on firm performance
	4.	Compatibility and Network Effects
		Understanding on the origin of network effects; Characteristics of in study showing strong network effects; firm strategies to survival in the network- effect markets
	5.	Firm Boundary Decisions
		Understanding on firm boundary; the impact of firm boundary decisions on performance; key reasons that firms change their boundaries; relationship between firm boundary decision and firm capability; relationship between firm boundary decision and industry structure
	6.	Technology Adoption Timing
		Understanding on differences between early vs. late adoption and its performance heterogeneity
	7.	Organizational Learning
		Understanding why firms show heterogeneous learning processes and routines in dealing with new innovations; why some firms are faster than others in learning new innovations

Teaching/Learning	A mixture of lectures, tutori									
Methodology	various topics. Some material is covered using a problem-based format where									
	this advances the learning of	ojectives.	Case	discussi	ion and	l projec	ct activi	ities take		
	place against a background	l of conce	eptua	l mater	ials, w	which i	nclude	selected		
	readings and brief lectures p	ertaining	to the	theme	of each	n sessio	on.			
	Teaching/Learning Intended Subject Learning Outcomes to be									
	Methodologies	assessed			U					
		a b c d				1	e			
	Group Presentation				\checkmark					
	Individual Presentation		~	/						
	Individual Report					√	/	✓		
	Test	✓								
		1 1								
Assessment Methods in										
Alignment with Intended	Specific assessment	%		Intend	led sub	oiect le	arning			
Learning Outcomes	methods/tasks	weigh				be assessed				
		0	0							
				а	b	с	d	e		
	1. Literature Critique	20%								
	-			✓	✓					
	(Group Assessment)									
	2. Individual Report	40%	6				✓	~		
	3. Test I and II	40%	6	~						
	Total	100	%							
	project. The individual tests	s are desig	and group assignments, tests, and a group assigned to assess students' understanding of							
		and application of the knowledge learnt. Indi								
	participation in class discu									
		s also helps students to develop analytical a								
	organisational communication			•••				-		
	Interactive case analyses, g	-				-				
	develop and assess the stu	-								
	collaboration skills. The field		-		equire	studen	is to ap	pry what		
	they have learnt to realistic	work scen	a1105.							

Class contact:

	•	Lectures	21 Hrs.				
	•	Tutorials/Seminars/Case studies					
	Othe	er student study effort:					
Student Study Effort	•	Conducting projects and project discussions	20 Hrs.				
Expected	•	Studying the materials covered by lectures for tests	30 Hrs.				
	•	Preparation for seminars/case studies	21 Hrs.				
	•	Preparation for project presentations and report writing	20 Hrs.				
	Tota	al student study effort 1					
Reading List and References	1.	Burgelman, Robert, Christensen Clayton and Wheelwright Sta Strategic Management of Technology and Innovation, McGrav (ISBN: 0-07-2536950), latest edition	,				
	2.	Chesbrough, Henry, <i>Open Innovation</i> , Harvard Business Press edition	s, latest				
	3.	Christensen, Clayton, Innovation and the General Manager, Irwin/McGraw Hill, latest edition					
	4.	Tushman, Michael and Anderson, Philip, <i>Managing Strategic Innovati</i> and Change, Oxford Press, latest edition					
	5.	Utterback, James, <i>Mastering the Dynamics of Innovation</i> , Harvard Business Press, Boston, MA, latest edition					
	6.	Schilling, Melissa, <i>Strategic Management of Technological In</i> McGraw Hill, latest edition	novation,				

Subject Code	ISE5024						
Subject Title	Knowledge Based Service Innovation						
Credit Value	3						
Level	5						
Pre-requisite/Co- requisite/Exclusion	ISE542 Managing Knowledge or ISE 531 Principles of Knowledge Engineering and Management						
Objectives	ne subject aims to provide students with: (1) an overall understanding of e fundamental ways by which a firm's <i>knowledge-based organizational</i> <i>spabilities</i> enable service innovation and how these capabilities must be onfigurable and aligned with the enterprise strategy for superior value co- eation <i>with</i> the customers; (2) a holistic and in-depth understanding of evailing practical methods for developing and aligning the service novation models, processes and operations with <i>both</i> the espoused terprise strategy <i>and</i> customer value proposition to achieve <i>sustainable</i> ompetitive advantage; and (3) to relate and assess the suitability of the <i>rategy-aligned</i> service innovation concepts, models and methods for eir own organizations.						
Intended Learning	pon completion of the subject, students will be able to						
Outcomes	a. view a firm's competitiveness from the knowledge- and capability- based theories perspective; and how the firm must continually reconfigure its knowledge/capability components in-line with its strategy and in harmony with the changing external customer/market, technology and/or regulatory environments to enable its service innovation to consistently co-create maximum value <i>with</i> the customers so as to sustain its competitive advantage;						
	 b. implement a firm's service innovation framework/model, and the associated service design, engineering, and operations models or methods using the basic constructs of the service-dominant logic and the underlying knowledge/capability-theory of firm; 						
	c. develop a strategy map and the associated end-to-end strategic business-IT alignment methods to manage/coordinate/monitor the execution of strategy-aligned service innovation to ensure the espoused customer value proposition and desired business outcomes are mutually achieved;						
	d. critically review and assess extant and emerging service innovation examples from the literature; and relate and assess the suitability of all the above to their own organizations.						
Subject Synopsis/	All firms including manufacturing firms are becoming service centered, focused on the customer. Service centered firms co-create value with their						

Indicative Syllabus	customers through the dynamic configuration of their people (knowledge), processes and systems, known collectively as organizational capabilities. The core of these capabilities is knowledge, which is underpinned by information technology. This subject introduces students to the underlying principles and theories of, and emerging methods for, knowledge-based service innovation. It is aimed towards possible practical applications by the students for the
	 analysis their own organizations' services. Key topics include 1. The principles and theories of organizational knowledge, capabilities, processes, IT, strategy, and service innovation, and their inter-relationships and co-alignments for superior value creation by service (and, increasingly, manufacturing) firms to achieve
	 sustainable competitive advantage; 2. The customer-centric Service-Dominant Logic as the fundamental construct for Service Innovation Framework and the attendant New Service Development Process and related service engineering methods for the Provider to conceptualize, design, deliver and
	 operate new services for solving emergent customer problems, and thereby consistently co-creating value with their customers; 3. Strategy Map, based on balanced scorecard, and attendant end-to-end strategic business-IT alignment methods used by technology-enabled service firms to shape the firms' knowledge organizations and attendant dynamic capabilities to drive their strategy-aligned service innovations;
	 4. Illustrative examples (such as logistics and telecommunications services) extracted from leading services-related research journals or handbooks.
Teaching/Learning Methodology	It aims to relate classroom discussions to students' real-world product/service-related issues encountered in their organizations. Students are expected to study their organizations' product/service models and the supporting IT and organizational environments (as a preparation for the subject), as well as the recommended references and case examples so as to <i>contribute to classroom discussions/exercises</i> and to supplementary instructor-led online discussions which will be conducted to facilitate students' learning. Tutorials will also be provided. As a means to validate or reinforce learning, students are expected to apply the concepts, principles, theories and methods covered in the subject to describe the current service models of their firms and to propose a new service innovation model and corresponding business/IT strategy for sustainable competitive advantage.

	Teaching/Learning Methodologies	Teaching/Learning be as				learning outcomes to assessed c d				
	Lecture	v	1	✓						
	Tutorial			✓	~	·	√			
	Case Studies	v	/	✓						
	Personal Learning Environment & Network	٧	/	~	~		~			
	(PLE&N)									
Assessment	Specific assessment			%	Inte	ended	aubio	ot		
Methods in	methods/tasks		wei	[%] ghting	learni		v			
Alignment with	methous/ tusks		wei	ginnig		-	sessed			
Intended Learning										
Outcomes					a	b	с	d		
	1. Student's proposal for									
	Assignment: research			5%	\checkmark	~	~			
	objectives, scope and ration	ale								
	of proposal (item 3)									
	2. Online discussions (on									
	online papers/contents relat	ed								
	to topics covered in lectures	as	1	10%	\checkmark	~	\checkmark	\checkmark		
	relevant to real-world									
	experiences in the students									
	organizations)									
	3. Assignment									
	[Critical analysis of									
	contemporary research									
	publications on service									
	innovation, and the student'		_							
	organization's service mode	el	2	25%	√	✓	✓	✓		
	together with its existing									
	strategy using the concepts,									
	principles and theories cove	red								
	in the subject and in the									
	literature reviewed by the									

				1	1			
	student.]							
	4 Presentation of assignment report to class	5%		~	~	~		
	5. Examination (open book) on principles, theories and practices of knowledge-driven service innovation	55% 🗸 🗸			~	~		
	Total	100%				I		
	The subject is taught in <i>block mod</i>							
	Continuous online discussions of lecture series.	n selected top	vics throu	ughou	t the			
	Emphasis is placed on students' understanding of both the basic concepts of service innovation and how they may be appropriately applied to the students' organizations with relevant justifications and scientific arguments. To that end, students are encouraged to proactively contribute to class and online discussions/exercises to enhance their learning experience. This in turn requires the students to demonstrate a sound understanding o their organizations' product/service businesses. The above assessmen modes are appropriate because together they not only cater to the background and experience of the student, but also ensure the student, by attempting all the components successfully, will achieve the desired learning outcomes for the subject.							
Student Study Effort Expected	Class contact:							
Lapernu	Face-to-face lectures/present	tations		36 Hrs				
	Tutorials/workshops 1.5 hours per session x 2 session							
	Other student study effort (estima	ted):						
	11. Study of online contents / jo	urnals			1	6 Hrs.		
	12. Preparation and revision40 Hrs							
	13. Assignment30 Hr							
	Total student study effort:	125 Hrs.						
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Reading List and References	 Textbooks: Chew, E. K. & Gottschalk, P. (2013), <i>Knowledge-driven Serve</i> <i>Innovation and Management</i>, IGI Global Publishing. Kaplan, R.S., & Norton, D.P. (2004). <i>Strategy Maps</i>. Boston, Harvard Business School Press References: Alter, S. (2008), Service system fundamentals: work system, v chain and life cycle. <i>IBM Systems Journal</i>, 47(1), 71-86. Anrich, J.C. Managementals: C. and Schemitten F. (2010). Here 							
	 Aurich, J.C., Mannweiler, C. and Schweitzeri E. (20 design and offer services successfully, <i>CIRP Journa Manufacturing Science and Technology 2, 136–143</i> Bask, A. H., Tinnila, M., and Rajahonka, M. (2008), service strategies, business models and modular busi processes, <i>Business Process Management Journal V 153-180</i> Gallouj, F. and Windrum, P. (2009), Services and se 	l of Matching iness Vol. 16 No. 1,						
	 innovation, <i>Journal of Evolutionary Economics</i>, 19: 7. Hung, R. Y-Y., Lien, B. Y-H., and McLean, G. H. (X Knowledge Management Initiatives, Organizational Alignment, Social Capital, and Dynamic Capabilitie <i>Developing Human Resources Vol. 11, No. 3, 320-3.</i> 8. Moeller, S. (2008), Customer Integration—A Key to Implementation Perspective of Service Provision, <i>Josevice Research Volume 11 Number 2, 197-210</i> 9. Paswan, D. D'Souza, and Zolfagharian, M. A. (2009) Contextually Anchored Service Innovation Typolog. <i>Sciences, Vol 40, No. 3, 513-540</i> 10. Vargo, S. L. and Lusch, R. F. (2008), From goods to Divergences and convergences of logics, <i>Industrial J</i> <i>Management 37, 254–259</i> 	2009), Process s, <i>Advances in</i> 33 o an <i>purnal of</i> 9), Towards a y, <i>Decision</i>						

Subject Code	ISE5603
Subject Title	Enterprise Knowledge Portals
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Nil
Objectives	 This subject provides students with the ability to identify the role of different types of portals to support information management, process management, collaborations, and transaction processing in the workplace, as well as in the Internet world; develop a roadmap for the introduction of a portal, choose the necessary functions and technologies, as well as define metrics for measuring adoption by users, together with change management required to support the deployment.
Intended Learning Outcomes	 Upon completion of the subject, students will be able to a. define, identify, and justify the role of portals in an organizational context; b. define criteria to evaluate and measure the adoption and ongoing success of a portal application; c. critically examine the various options to introduce an enterprise portal; d. deal with the common threats that can occur in every stage of a portal journey; e. identify opportunities to leverage a portal for further enterprise transformation.
Subject Synopsis/ Indicative Syllabus	1. <u>Enterprise Knowledge Portals (EKP)</u>

	 This subject introduces students to the concept of portals for enterprise and personal use. Topics covered include taxonomy of portals, portal architecture, framework for selecting and implementing portal functions, portal content management, and the impact of emerging technologies on the evolution of portals. Particular emphasis is placed on the role of enterprise and personal portals in support knowledge-based activities in agile and virtual enterprises, and industry-specific portals. 2. Case Studies Lessons learned from various large-scale portal implementations are examined and either live or pre-recorded sessions of portals used in large multi-national organizations are conducted. 					
Teaching/Learning Methodology	Interactive and multimedia online learning materials are available to students for self-directed learning. Online quizzes, discussion forums, email support, and supplementary face-to-face instructor-led seminars are available to facilitate students' learning. Intended subject learning outcomes to be assessed				on forums, eminars are	
	Methodologies	a	b	с	d	e
	Lecture	~	~	✓	✓	
	Tutorial	~	~	\checkmark		~
	Case studies	~	~	\checkmark		~
	Personal Learning Environment and Network (PLEN)	~	~	✓	~	~
Assessment						

Methods in Alignment with Intended Learning	Specific assessment methods/tasks % Intended subject le outcomes to be as					-	
Outcomes			a	b	c	d	e
	1. Tutorial /workshop exercise	10%	~		~		
	2. Bulletin board	10%	~	~	~	~	~
	3. Assignment	20%	~	~	~	~	~
	4. Project Proposal	10%	~	~	~	~	~
	5. Final Report	20%	~	~	~	~	~
	6. Presentation	10%	~	~	~	~	~
	7. Test	20%	~	~	~	~	
	Total	100%					
	The adopted combination through all these compone be applied. Examples are topic, contributing discus project covering many are of a portal.	ents, the learn e compiling a ssions in a bu	ers' abi in assi illetin	ility in gnmen board,	the sub t on a and ad	pject to projec	ppics will et-related lishing a
Student Study	Class contact:						
Effort Expected (Block Mode / Evening Mode)	14. Face-to-face lectures/seminars/presentations/te						22 Hrs.
	15. Guest lectures/seminar4 Hr2 hours per week x 2 weeks						4 Hrs.
	16. Bulletin Board participation1 hour per week x 13 weeks						13 Hrs.
	Other student study effor	t					
	17. Study of online con	tent					26 Hrs.

	2 hours per week x 13 weeks						
	18. Preparation and revision	26 Hrs.					
	19. Assignments and projects	26 Hrs.					
	Total student study effort117						
Reading List and References	 Terra, J, C and Gordon, C. 2003, <i>Realizing the Promise of</i> <i>Portals: Leveraging Knowledge for Business Success</i>, E Heinemann, Amsterdam 						
	2. Firestone, J, M. 2003, <i>Enterprise Information Portal</i> <i>Knowledge Management</i> , Butterworth-Heinemann, Amsterda						
	3. Collins, H. 2003, Enterprise Knowledge Portals, AMA York	COM, New					

Subject Code	ISE5605			
Subject Title	Knowledge Communities			
Credit Value	3			
Level	5			
Pre-requisite/Co- requisite/Exclusion	Pre-requisite: ISE542 Managing Knowledge			
Objectives	This subject aims to provide students the opportunity to			
	1. understand the various types and purposes of knowledge communities;			
	2. appreciate the power of knowledge communities in knowledge creation, retention, and sharing;			
	3. understand the various types of tools and technologies that support different stages of an online community;			
	4. learn about various models for assessing the maturity and value of a community;			
	5. gain in-depth appreciation of some real-world successful private and public online communities;			
	6. learn about strategies for development, sustainment, and change management in support of online communities.			
Intended Learning	Upon completion of the subject, students will be able to			
Outcomes	a. define, identify, and justify the role of communities in an organizational context;			
	b. define criteria to evaluate and measure the ongoing success of an online community;			
	c. critically examine the various ways to introduce, sustain, and resurrect a knowledge community;			
	d. deal with the common threats that occur in every stage of a community's life cycle.			

Subject Synopsis/ Indicative Syllabus	This subject introduces students to the concept of knowledge communities. In particular, this course critically examines various types and models of communities (e.g., project communities, communities of interest, community of practice, knowledge and know-how networks, and personal/social networks). Emphasis is on the formation, evolution, and governance of communities, as well as the tools and technologies to support the operation and growth of communities at different stages of its lifespan. Impact of digitalization and communities' role in a networked economy will also be discussed.
	Through a balanced mix of theories and practical case studies, by the end of the module, students are expected to have a strong mastery of the various types of communities and their respective roles and contributions in an organization and/or the marketplace. Students are able to demonstrate how to introduce knowledge community or communities into their organization's knowledge management and/or learning strategy.
	Methods on how to measure/appraise the value (both tangible and intangible) of communities are also covered. Students are also expected to demonstrate how to develop a business case for launching a community, critically assess the ongoing value of a community, and use appropriate tools to gauge and report on the relationships in social/personal networks.
Teaching/Learning Methodology	Interactive and multimedia online learning materials are available to students for self-directed learning. Online quizzes, discussion forums, email support, and supplementary face-to-face instructor-led seminars are available to facilitate students' learning. There is also the requirement to tackle a project in which the students need to demonstrate their learned skills and techniques to help in launching or resolving some critical issues associated with a community.

	Teaching/Learning Intended subject learning outcomes to assessed Methodologies Intended subject learning outcomes to assessed				o be		
	Methodologies	а	b		c		d
	Lecture	\checkmark	~	(\checkmark		✓
	Tutorial	\checkmark	v	(\checkmark		✓
	Case studies	\checkmark		(\checkmark		✓
	Personal Learning Environment and Network (PLEN)	✓	v	/	√		~
Assessment Methods in Alignment with	Specific assessment methods/tasks	t % Intended subject learn weighting outcomes to be asses				-	
Intended Learning Outcomes				a	b	c	d
	1. Tutorial exercise	209	%			~	
	2. Workshop exercise	209	%	✓		~	
	3. Bulletin Board	109	%	✓	~	~	~
	4. Guided project	509	%	~	~	~	~
	Total	100	%			1	
	The tutorial and workshop exercises expose students to several of th fundamental issues common to most communities. They need to conduct background research as well as articulate the learned concepts to tackle these exercises. Throughout the semester, the bulletin board requires the student to discuss and offer opinions on many of the issues and topics that are brought up in various lessons. The guided project is a major piece of work that requires a student to articulate many of the concepts learned i the subject and apply them in a practical situation, by either launching community or providing a critical view of an existing or dormar				conduct to tackle uires the ppics that piece of earned in nching a		

	community.				
Student Study	Class contact:				
Effort Expected	20. Face-to-face lectures/seminars/presentations				
(Block Mode /	5.5 hours per week x 4	22 Hrs.			
Evening Mode)	weeks				
	21. Guest lectures/seminar	4 Hrs.			
	2 hours per week x 2 weeks				
	22. Bulletin Board participation	13 Hrs.			
	1 hour per week x 13 weeks				
	Other student study effort:				
	23. Preparation and revision	30 Hrs.			
	24. Assignments and projects	40 Hrs.			
	Total student study effort	109 Hrs.			
Reading List and	Textbook:				
References	Wenger, E, McDermott, R, Snyder, W, M. (2002), Cultivatin	ng			
	Communities of Practice, Harvard Business School Press				
	References:				
	1. Hildreth, P. and Kimble, C. (2004), "Knowledge Innovating through Communities of Practice", Idea Gro				
	2. Saint-Onge, H, Wallace, D. (2003), <i>Leveraging Con</i> <i>Practice for Strategic Advantage</i> , Butterworth-Heinema	·			
	 Wenger, E., White, N., & Smith, J. D. (2009). Dig Stewarding technology for communities. CPsquare. 	ital habitats:			

Subject Code	ISE5606			
	Dusiness Intelligence and Date Mining			
Subject Title	Business Intelligence and Data Mining			
Credit Value	3			
Level	5			
Pre-requisite/Co- requisite/Exclusion	Students must have basic mathematical skills.			
Objectives	This subject enables students to:			
	1. master the basics in business intelligence (BI), data mining (DM), and knowledge discovery in databases;			
	2. learn the role that software tools/applications play in BI and DM, with emphasis on industrial case studies and practical applications;			
	 Have an overall understanding of the major issues and applications in business intelligence and data mining, including a basic grasp of the algorithm classes and best practices for building successful BI projects. 			
Intended Learning Outcomes	Upon completion of the subject, students will be able to:			
Outcomes	a. examine the concepts of data warehousing and OLAP;			
	b. apply the concepts of BI and DM techniques for clustering, association, and classification;			
	c. understand the operation procedures of BI projects in an organization;			
	d. select appropriate DM tools and methods to manipulate and achieve data;			
	e. apply DM concepts for formulating business strategies and programs to enhance business intelligence.			
Subject Synopsis/	The syllabi of this subject are:			
Indicative Syllabus	1. <u>Business Intelligence (BI)</u>			
	Introduction to BI, BI concepts, and methods; Nature and representation of data; Building data warehouses; Data marts; OLAP; Concepts in data analysis, reporting, and analytics; Defining			

Teaching/Learning Methodology	 BI objectives; Maint methodology; Measu 2. Data Mining and Known Introduction to data methods; Descript Integration with DF mining; Embedding applications; Challer 3. Case Studies Case Studies drawn applications. These up-sell methods; Fra In this subject, the technic intra-organizational data a and competitive informa applications are covered. Learning is facilitated through Face-to-face seminars/lab The integrated applications and DM principles, technic and DM principles, technication 	uring and <u>owledge I</u> a mining tive me 3MS and 3MS and a data m nges and a from include ud detect aques and and mark ation). E ough face os are av on-orient vledge of	l refining <u>Discovery</u> ; Data n ethods; l data w ining in special co commerce eBusines ion; Marl l methoda et data (e nterprise e to face l ailable to ed mini- f understa	success. <u>y in Datab</u> nining al Scalabil arehouses business onsiderat ial, indu s applica ket predic s coverec e.g., indus as well lecturing o facilitat project i anding ar	bases (DM gorithms ity cor s; Lifecy solution ions. strial, an tions, cr ction and l are app stry statis as mar and guid te studen is design ad using	<u>A and KD</u> ; Prediction (cle of data); Example (cle of cle ata); Example (cle ata); E	DD) ive ons; lata ple rch and ng. oth ids, ted ng. ng. ng. elp BI
	team work. Teaching/Learning Methodologies	Intende	ed subjec	t learning assessed c		es to be	
	Lecture	~	~		~	~	
	Tutorial/Labs		~				
	Projects			~	~	~	
	Case Studies	~		~			

Assessment Methods			Γ						
in Alignment with Intended Learning		Specific assessment methods/tasks	% weighting				earning ssessed		
Outcomes				a	a b c		d	e	
	1	Assignment/ Test	30%	~	~	~			
		Mini-project/ project	20 %	~	~	~	~		
	3.]	Exam	50 %	~	~	~	~	~	
	То	tal	100 %						
Student Study Effort	Class contact: 25. Lectures/ seminars/ labs								
Expected (Block Mode/ Evening							24 Hrs.		
(Dioch Mode) Mode)	26.	15	15 Hrs.						
	Other student study effort:								
	27.	28	28 Hrs.						
	28. Preparation and revision for in class test							28 Hrs.	
	29.	Project and presentati	on preparation	n			28	8 Hrs.	
	Total student study effort123 H					Hrs.			
Reading List and	1.	Jiawei Han, Michelin						lining:	
References	 Concepts and Techniques, 3rd Edition, Morgan Kaufmann Jerzy Surma, 2011, Business Intelligence: Making Decisions throu Data Analytics, New York, N.Y., Business Expert Press 						hrough		
	 Pang-Ning Tan, 2006, <i>Introduction to Data Mining</i>, Boston : Pearso Addison Wesley 						earson		

Subject Code	ISE5607				
Subject Title	E-Learning Technologies and Practices				
Credit Value	3				
Level	5				
Pre-requisite/Co- requisite/Exclusion	Completing the subjects ISE542 Managing Knowledge or ISE543 Methods and Tools for Knowledge Management Systems is required				
Objectives	 This subject provides students with the knowledge to understand the prevalent models of electronic learning, development of learning strategies, and construct business cases; appreciate the general and niche applications of electronic learning; explore the existing and emerging technologies, systems and practices that underpin/impact the formulation and deployment of electronic learning and assess their implications. 				
Intended Learning Outcomes	 Upon completion of the subject, students will be a. equipped with capabilities and understanding of e-learning concepts and models to plan for e-learning courses, representations, interactions, and technologies; b. equipped with evaluation and deployment capabilities and understanding of specific emerging e-learning technologies, systems and practices; c. equipped with strategic and management capabilities and insights in applying and sustaining e-learning within the enterprise; d. able to facilitate the personal mastery of being an e-learning practitioner with continuous awareness on e-learning environment and issues, and proficiency in technologies, systems, practices, projects, and other e-learning efforts. 				
Subject Synopsis/ Indicative Syllabus	 E-Learning Strategic Issues E-learning environment and rationale; Policy issues; Stakeholder requirements; Business model and process needs; Risks; Learning Scenarios. E-Learning Models and Technologies 				

	3.	Asynchrono platform; L <u>E-Learning</u> Course co Internet; Hu <u>Project Ma</u>	ous/Synch earning m <u>Course D</u> mponents; uman-com <u>nagement</u> lanning	ronous anageme <u>elivery</u> c Learnin puter into and con	ng objectiveraction; Interaction; Role	E-learning res; Instruction	technology ional design; ems. sponsibilities;
Teaching/Learning Methodology	supj mul	Face-to-face and online lectures/seminars, discussion forums, email support, and are blended to facilitate students' learning. Interactive and multimedia online learning materials are available to students for self-directed learning.					
	Teaching/LearningIntended subject learning outcomebe assessed					comes to	
		Methodologies	a	b	с	d	
		Lecture/Se	eminar	~	~	~	~
		Tutori	al	~		~	~
		Case stu	udy	~	~	~	✓
]	Discussion Fe learnir		~	~	~	~

Assessment Methods in Alignment with	Specific assessment methods/tasks	ect learn De assess	-			
Intended Learning Outcomes			а	b	с	d
	1. Assignments	26%	~	~	~	\checkmark
	2. Bulletin board	9%		~	~	~
	3. Case study	10%	~	~	~	~
	4. Examination	55%	~	~	~	~
	Total	100%		1	I	
	board also inspires insights the enterprise. The examina skills gained by the student	ation is aimed		-		-
Student Study Effort Expected	Class contact:					
(Block Mode / Evening Mode)	Face-to-face lectures /	eks	24 Hrs.			
	On-line tutorial / seminar					3 Hrs.
	Bulletin board		12 Hrs.			
	Other student study effort:					
	• Studying and self-lear		36 Hrs.			
	 Assignment, case stud 		30 Hrs.			
	Total student study effort					05 Hrs.

Reading List and References	1.	Rosenberg, M, J. 2001, <i>E-learning: Strategies for Delivering Knowledge in the Digital Age</i> , Mc GrawHill
	2.	Carliner and Shank 2008, <i>The E-Learning Handbook: Past Promises, Present Challenges</i> , Pfeiffer
	3.	Piskurich, G, M. 2003, <i>The AMA Handbook of E-Learning: Effective Design, Implementation Technology Solutions</i> , American Management Association, AMACOM
	4.	Bonk, C, J and Graham, C, R. 2005, <i>Handbook of Blended Learning, Global Perspectives, Local Design</i> , Pfeiffer

Subject Code	ISE518					
Subject Title	Workflow Design and Management					
Credit Value	3					
Level	5					
Pre-requisite/Co- requisite/Exclusion	No prerequisite but some background knowledge on workflow and management is preferred.					
Objectives	This subject provides students with					
	1. the knowledge to analyze and redesign existing systems, and to design new work systems in various industrial and commercial environments in order to improve productivity;					
	2. the knowledge to apply relevant techniques and problem-solving methodologies so as to enable them to manage projects concerned with productivity improvement successfully;					
	3. the knowledge and techniques to analyze a new or existing layout in order to achieve improvement;					
	4. the ability to recognize the need for, and problems associated with, change in organizations.					
Intended Learning	Upon completion of the subject, students will be able to					
Outcomes	a. examine and measure productivity in a typical manufacturing or service organization in order to improve it;					
	b. identify the differences between cause and effect in problem solving and apply suitable problem-solving techniques using both analytical and creative (or lateral) thinking;					
	c. examine an existing work situation and conduct a work improvement program in a manufacturing or service organization in order to identify low productivity;					
	d. recognize the objectives of facility location and layout planning in both manufacturing and service organizations to evaluate different locations, the effectiveness of different layouts, and use suitable techniques for improvement;					
	e. understand the need for change in organizations and be able to apply appropriate strategies to affect change in an appropriate manner.					

Subject Synopsis/ Indicative Syllabus	 <u>Productivity</u> The importance of productivity and its measurement; Productivity measures in organizations; Total and partial productivity measures, their advantages and limitations; Causes of low productivity in organizations; Types of productivity improvement programs and how to select them.
	2. <u>Problem Solving</u>
	General problem-solving skills; Recognizing and defining problems; Use and applications of analytical and creative thinking; Barriers to creativity; Methods of stimulating creative thinking, such as attribute listing, analogy, brainstorming, etc.
	3. <u>Work Improvement</u>
	Analysis and improvement of work methods, systems, and procedures; Selecting areas appropriate for work improvement; Choosing areas for improvement, recording the facts, examining, and developing improvements; Issues of implementation, and continuous improvement; Application to the analysis and improvement of work systems; An appreciation of Business Process Re-engineering (BPR) and continuous improvement, as approaches to improving work systems in organizations.
	4. Location and Facility Planning
	Factors affecting the choice of location and the evaluation of alternatives; Types of layouts, including an appreciation of the systematic layout planning approach; Use of computers in layout planning; Types of flow lines, and line balancing issues.
	5. <u>Management of Change</u>
	Introduction to managing changes in organizations; Problems associated with change and the effects that change has on the management and personnel concerned; Organizing for change and overcoming resistance to change.
Teaching/Learning	Emphasis is placed on a student-centered learning approach through a
Methodology	variety of case studies taken from realistic industrial and commercial
	situations. These case studies are often used to deliver the subject material in a scenario of problem-based learning that will integrate topics contained in the syllabus so as to make the subject material more interesting and meaningful to students.

	Typical Case Studies								
	• Measuring produc	ctivity	in an	engine	ering	compa	ny		
	• Selecting areas for methods improvement in a small batch manufacturing company								
	• Designing a flow-	line t	o asse	emble a	typica	l cons	umer	produc	ct
	• Developing a hom	ne del	ivery	service	for a	supern	narket	chain	
	• Locating a central	ized j	proces	ssing pla	ant for	r a fast	-food	operat	ion
	• Creating a layout of production equipment			-	-			tegrate	es both
	• Managing change	in a c	comm	ercial e	nterpr	ise			
	Teaching/Learning	In	tende	d subjec	et learning outcomes to be assessed				e
	Methodologies	a b		b	с		d	e	
	Lecture	~		\checkmark	~		\checkmark	~	/
	Tutorial			\checkmark			\checkmark	~	/
	Project/case studies 🗸 🗸			~		\checkmark	~	/	
Assessment									
Methods in Alignment with Intended Learning	1			% ghting	Intended subject learnin outcomes to be assessed			_	
Outcomes	methods/tasks		W CI	gnung	а	b	с	d	e
	1. Continuous assessment45%2. Examination (open book)55%				~	~	~	~	~
					~		~	~	~
	Total 100 %								

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	Continuous assessment is comprised of case studies with individual and group components. <u>Note</u> : Assessment of Intended Learning Outcomes (ILOs) may vary from year to year in terms of whether they are by continuous assessment or by examination. However, all ILOs are covered each year. Moreover, all assessment components require students to apply what they have learned to realistic work applications that often integrate the various topics covered. The examination (open-book format) is also applications oriented.					
Student Study	Class contact:					
Effort Expected	• Lecture 3 hours/week for 7 weeks	21 Hrs.				
	Tutorial/case study 3 hours/week for 4 weeks	12 Hrs.				
	Laboratory 3 hours/week for 2 weeks	6 Hrs.				
	Other student study effort:					
	Studying and self-learning 40 Hrs					
	Case studies and report writing 26 H					
	Total student study effort	105 Hrs.				
Reading List and References	1. Adedeji B. Badiru and Olufemi A. Omitaomu 2011, Handbook on Industrial Engineering equations, formulas and calculations, CRC Press					
	2. Tristan Boutros and Tim Purdie 2014, <i>The Process Improvement</i> <i>Handbook: a Blueprint for Managing Change and Increasing</i> <i>Organizational Performance</i> , McGraw-Hill Education					
	3. Layna Fischer 2005, <i>Workflow Handbook 2005</i> , F	uture Strategies				
	4. Imre Hegedus 2012, Business Process Management: Strategies to Improve Performance, Ark Group					
	5. Ricky W. Griffin 2013, <i>Management</i> , South- Learning	Western/Cengage				
	6. James A. Tompkins, John A. White, Yavuz A. F. Tanchoco 2010, <i>Facilities Planning</i> , 4 th , Wiley	Bozer and J.M.A.				
	7. Alberto Garcia-Diaz and J. MacGregor Smith <i>Planning and Design</i> , Pearson/Prentice Hall	2008, Facilities				

8.	Gavriel Salvendy 2007, <i>Handbook of Industrial Engineering</i> , John Wiley & Sons, Third Edition Published Online
9.	Raybould, E, R and Minter, A, L. 1992, <i>Problem Solving for Management</i> , Institute of Management Services, Latest Edition
10.	Tomkins, White, Bozer, Frazelle, Tanchoo, Trevino. 2010, <i>Facilities Planning</i> , 4 th edn, John Wiley & Sons Inc.
11.	International Labour Office 1992, Introduction to Work Study, $4^{\rm th}$ edn
12.	Lawrence, P (Editor) 1997, <i>Workflow Handbook</i> , John Wiley & Son, Chichester
13.	Stefan Joablonski and Christoph Bussler 1996, <i>Workflow</i> <i>Management - Modeling Concepts, Architecture and</i> <i>Implementation</i> , International Thomson Computer Press
14.	Poyssick, G and Hannaford, S. 1996, <i>Workflow Reengineering</i> , Adobe Press, Mountain View, California

Subject Code	ISE526
Subject Title	Enterprise Resources Planning
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Nil
Objectives	This subject provides students with
	1. the basic concepts of ERP systems for manufacturing or service companies, and the differences among MRP, MRP II, and ERP systems;
	2. thinking in ERP systems: the principles of ERP systems, their major components, and the relationships among these components;
	3. in-depth knowledge of major ERP components, including material requirements planning, master production scheduling, and capacity requirements planning;
	4. knowledge of typical ERP systems, and the advantages and limitations of implementing such systems.
Intended Learning	Upon completion of the subject, students will be able to
Outcomes	a. examine systematically the planning mechanisms in an enterprise, and identify all components in an ERP system and the relationships among the components;
	b. understand production planning in an ERP system, and systematically develop plans for an enterprise;
	c. use methods to determine the correct purchasing quantity and right time to buy an item, and apply these methods to material management;
	d. understand the difficulties of a manufacturing execution system, select a suitable performance measure for different objectives, and apply priority rules to shop floor control.
Subject Synopsis/ Indicative Syllabus	1. <u>Introduction</u> Concept of ERP, brief history of ERP systems, major components of

	 ERP systems and to manufacturing and ser 2. Production Planning Master production sch capacity requirements 3. Material Requirement Concept, product struct lot-sizing and capacity 4. Manufacturing Execute Shop floor control, job scheduling. 5. Operation of an ERP so The relationships and promise (ATP), time be for the second struct of the seco	vices. neduling (M planning. <u>s Planning (</u> cture, and bi considerat: <u>cion System</u> o shop schect <u>system</u> hong differ pucket.	IPS), rough <u>MRP)</u> 11 of mater ions. <u>s (MES)</u> luling and	n-cut capa ials (BOM priority ru	city planning, (), MRP logic, les, flow shop
	6. <u>Inventory Managemen</u> Benefit and cost con models and their assur	siderations	in invento	ory manag	gement, basic
Teaching/Learning Methodology	A mixture of lectures, exercises, laboratories, and case studies is used to deliver the various topics in this subject. Some material is covered using a problem-based format where this advances the learning objectives. Other material is covered through directed study to enhance students' "learning to learn" ability. Some case studies, largely based on consultancy experience, are used to integrate these topics and demonstrate to students how the various techniques are interrelated and can be applied in real-life situations.				
	Teaching/LearningIntended subject learning outcomes to be assessed				comes to
	Methodologies	а	b	с	d
	Lecture	~	~	~	✓
	Seminars	✓	✓	~	✓
	Project/case studies	✓	~	~	~
			1	1	·

Assessment		I	1			
Methods in	Specific assessment	%	Inten	ded subj	ject lear	ning
Alignment with	methods/tasks	weighting	outco	omes to	be asses	ssed
Intended Learning Outcomes			a	b	c	d
	1. Exercises	20%	~	\checkmark		
	2. Project report	15%	~	✓	~	~
	3. Oral presentation	10%	~	\checkmark	~	~
	4. Lab work and report	25%		\checkmark	~	
	5. Test	30%	~	\checkmark	~	~
	Total	100%				
	components, usually sever presentation and written rep components require stude learnt in the course to a planning.	port, laborator nts to apply a	y work, a ind demo	nd a test onstrate	. All ass what th	sessment and have
Student Study	Class contact:					
Effort Expected	30. Lectures				,	27 Hrs.
	31. Laboratories, Present	ation, Test				12 Hrs.
	Other student study effort:					
	32. Preparation and revie	ew, Self-study				63 Hrs.
	33. Report writing					18 Hrs.
	Total student study effort				12	20 Hrs.
Reading List and References	1. Monk, E. F., Wagner <i>Planning</i> , 3 rd edn, Cor		-		-	Resource
	2. Sumner, M. 2005, <i>En</i> Inc.	terprise Resou	rce Plan	ning, Pe	arson Eo	ducation,

3.	Vollmann, T. E., Berry, W. L. and Whybark, D. C. 1992, <i>Manufacturing Planning and Control Systems</i> , 3 rd edn, Irwin
4.	Plossl, G. W. 1985, <i>Production and Inventory Control: Principles and Techniques</i> , 2 nd edn, Prentice Hall
5.	Wallace, T. F., Kremzar, M. H. 2001, <i>ERP: Making It Happen</i> , John Wiley
6.	Ferran, C., and Salim, R. 2008, <i>Enterprise Resource Planning for Global Economics: Managerial Issues and Challenges</i> , Information Science References
7.	Shtub, A. 1999, Enterprise Resource Planning (ERP): the Dynamics of Operations Management, Kluwer Academic Publishers

Subject Code	ISE553
Subject Title	Managing Six Sigma
Credit Value	3
Level	5
Pre-requisite/Co- requisite/Exclusion	Students must be aligned with an organisation to complete a mini-project with real objectives and data collection and analysis. Experience in QC, QA, quality management, process control, or other operational activities is desirable.
Objectives	 This subject will provide students with the basic Six Sigma skills for identifying and defining improvement projects that will have significant positive impacts on sustainable business performance; skills in the measurement and analysis of process data and a basic understanding of the techniques and importance of process modelling in manufacturing and service industries to improve the existing processes; the ability to use Six Sigma practices and techniques so that they can effectively support the implementation of a company-wide improvement programme; knowledge of the alternative and latest Six Sigma methodologies, to enable them to evaluate and determine the best choices for a company.

Intended Learning	Upon completion of the subject, students will be able to
Outcomes	 a. examine the existing work situation in a manufacturing or service organisation to identify Six Sigma projects that will significantly improve customer satisfaction, and quality and productivity; b. apply appropriate Six Sigma techniques to improve existing or design new work methods and procedures for a business process; c. select appropriate Six Sigma measurement and data analysis
	techniques and apply them to improve the value of products and services delivered to customers while enhancing the organisation's financial performance;
	d. apply appropriate Six Sigma techniques to support the implementation of a company-wide improvement programme;
	e. understand the concepts and applicability of alternative Six Sigma methodologies with a view to determining the appropriate one for application in specific settings.
Subject Synopsis/	1. <u>Background and Fundamentals</u>
Indicative Syllabus	What Six Sigma is; Six Sigma goals and metrics including customer satisfaction, process efficiency, and time-to-market; Six Sigma applications; models of improvement: DMAIC, DFSS.
	2. <u>Implementation</u>
	Six Sigma leadership; enterprise-wide deployment; business process management; project charter; project selection and evaluation; team work.
	3. <u>Techniques</u>
	Critical to quality (CTQ); objective function; quality function deployment (QFD); process mapping; capability studies and statistical process control; multivariate analysis; failure mode, effects, and criticality analysis (FMECA); visual management brainstorming tools.
	4. <u>Latest Advances</u>
	Lean Six Sigma; Kaizen events; conquering complexity; beyond Six Sigma.

Teaching/Learning Methodology	A mixture of lectures, tu the various topics in t problem-based format w material is covered thr learning ability. Externa largely based on consul and demonstrate how the	his subject. where this advorted to the subject of	Some r vances th d study invited ence, to	nateria he lear to en to deli integra	l is contract of the second se	overed ojective studer ne case topics	using a es. Other nts' self- e studies, covered
	Teaching/Learning Methodologies	Intende	ed Subje	ect Lea be asse	-	Dutcon	nes to
		a	b	c		d	e
	Lecture	~	\checkmark	~		✓	~
	Tutorial	~	\checkmark	~		✓	~
	Seminar	~	√	~		~	~
	Case study	~	\checkmark	~		~	
Assessment Methods in Alignment with	Specific assessment methods/tasks	% weighting			subjec es to be		-
Intended Learning Outcomes			а	b	c	d	e
Outcomes	1. Mini-project	50%	~	✓	~	~	~
	2. Case studies	20%	~	\checkmark	~	~	
	3. Test	30%	\checkmark	\checkmark	~	~	~
	Total	100%					
	Assessment comprises usually tests, case stu assessment components	idies, and o	one ind	ividual	mini	-projec	xt. All

address real-world issues.

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Student Study	Class contact:				
Effort Expected	 Lectures/Seminars 	27 Hrs.			
	Tutorials/Case studies/Tests	12 Hrs.			
	 Presentation and peer review 	5 Hrs.			
	Other student study effort:				
	 Studying and self-learning; test preparation 	40 Hrs.			
	 Mini-project work; case study report writing 	40 Hrs.			
	Total student study effort1				
Reading List and References	 Pende, Peter S., Neuman, Robert P. and Cavanagh, R <i>The Six Sigma Way: How GE, Motorola, and Other T</i> <i>are Honing their Performance</i>, McGraw Hill Bill Wortman 2007, <i>Six Sigma Black Belt Primer</i>, Q of Indiana Devane, Tom 2004, <i>Integrating Lean Six Sign</i> <i>Performance Organizations</i>, Pfeiffer Publishing Eckes, George 2001, <i>Making Six Sigma Last:</i> <i>Balance between Cultural and Technical Change</i>, Wi <i>Six Sigma Forum Magazine</i>, ASQ 	<i>Fop Companies</i> Quality Council na and High Managing the			

8-64

Subject Code	ISE 5018
Subject Title	Intellectual Property Management and Strategies
Credit Value	3
Level	5
Pre-requisite / Co-requisite/ Exclusion	NIL
Objectives	 The subject aims to provide an overview of methods and approaches to manage intellectual property as strategic resources for enhancing the competitiveness for organizations. Upon completion of this subject, students should be able to accomplish the following objectives: 4. Understanding, defining and differentiating different types of intellectual properties (IPs) and their roles in contributing to organizational competitiveness 5. Understanding the Framework of Strategic Management of Intellectual Property (IP). 6. Appreciating and appraising different IP management (IPM) approaches and describing how pioneering firms initiate, implement and manage IPM programs, 7. Explaining how to derive value from IP and leverage its value in new product and service development
	8. Exposing to the Legal management of IP and understanding of real life practice of IPM.
Intended Learning Outcomes	 Upon completion of the subject, students will be able to : e. identify different types of Intellectual Properties (IPs), the right of ownership, scope of protection as well as the ways to create and to extract value from IP

	f. recognize the crucial role of IP in organizations of different industrial sectors for the purposes of product and technology development
	g. identify activities and constitute IP infringements and the remedies available to the IP owner and describe the precautious steps to be taken to prevent infringement of proprietary rights in products and technology development
	 h. Be familiar with the processes of Intellectual Property Management (IPM) and various approaches for IPM and conducting IP and IPM auditing and explain how IP can be managed as a strategic resource and suggest IPM strategy.
Subject Synopsis/ Indicative Syllabus	The subject shows the critical important of various IP management activities and approaches to leverage the value of the IP for organization success. The following topics are covered;
	Basic Concepts of IPs Types of Intellectual Properties (IPs), the right of ownership and scope of protection, Value creation and value extraction for IPs, Legal Aspect of IP: Application, Appropriation, Infringement & Design Around, Licensing
	IP Management Strategies and Implementation Overview of IP Management & Strategy, IP Management Audit, Patent Portfolio & Patent Intelligence, Technology Strategy & Patent Analysis, Patent Dispute Management & Strategy, Co-opetition & IP Strategy IP Strategy & Open Business Model, IP Valuation, Royalty & Damage
	<u>Case Studies</u> Case Studies are drawn from commercial, industrial, legal and technological aspects for product and technology development

Teaching/Learning Methodology	usually spread over a month. A mi studies will be used to deliver the v will be covered in a problem-base objectives. Others will be delivered enhance the students' ability of "lear integrate these topics and the stud techniques are inter-related and he fertilization of ideas and experie	As shown in Table 1, this subject is offered in block mode format on weekends, usually spread over a month. A mixture of lectures, tutorial exercises, and case studies will be used to deliver the various topics in this subject. Some of which will be covered in a problem-based format where this enhances the learning objectives. Others will be delivered directly through directed study in order to enhance the students' ability of "learning to learn". A mini-project will be used to integrate these topics and the students will demonstrate how to apply various techniques are inter-related and how they apply in real life situations. Cross fertilization of ideas and experiences of students through discussions and presentations are highly encouraged. Table 1						
	Teaching/Learning Methodology	Intend	ed subje	ct learni	ing outcome	es		
		a	b	с	d			
	1. Lectures/Guest lecture	V	V	\checkmark	V			
	2. In-class activities	V	\checkmark	\checkmark				
	3. Laboratory	3. Laboratory						
	4. Case studies $\sqrt{1}$ $\sqrt{1}$							
	5. Mini-project J J J							
Assessment Methods in Alignment with Intended Learning Outcomes	As shown in Table 2, this is a 100% continuous assessment subject which is comprised of assignments with individual and group assignments, mini-project, a short quiz and an open-book test. All assessment components will require students to apply what they have learnt to realistic work applications. To reflect what the student's learning for topics in learning outcomes (c) and (d), an individual assignment is provided which allows the students to apply the theory and concepts in IPM to address real life problems. The group assignment aims to allow the students to prepare for a proposal for the mini-project through the identification of the IPs and IP management problems in organizations (Learning Outcome (a)) and develop their skill to formulate a plan to address the problems (Learning Outcome (d)). The short quiz aims to assess the understanding of the students for the topics in learning outcomes (a) and (b). The students are required to present the results and write a report for their mini-							

	methods and approaches to manage intellectual property as strategic resources for							
	enhancing the competitiveness for organizations. (learning outcomes (a) to (d)),							
	There is an open book test which aims to assess the students' capability for							
	applying the theory and concept				-	-	-	
	problems related to related to th	e subject (le	arning (Jutcon	ies (a)	to (u)).		
	Table 1 Summary of Assessme	nt Compone	ents					
	Specific assessment methods/tasks	% weighting					utcomes appropriate)	
			а	b	с	d		
	1. Individual assignment	25%			~	~		
	2. Group Assignment	10%		~		~		
	3. Presentation for mini-project	10%	~	~	~	~		
	4.Written report for mini-project 15% ✓ 5. Short Quiz 15% ✓					~		
	6.Open-book Test	~						
	Total 100 %							
Student Study	v Class contact:							
Effort Required							26 Hrs.	
	• In-class activities/Tutorial/ Laboratory 13 Hrs. Other student study effort: 13 Hrs. • Study and self learning including mini-project and preparation for mini-project presentation 38 Hrs.							
	 Assignment and report writ 	ing					25 Hrs.	
	Total student study effort						102 Hrs.	
Reading List and References	 Cheung, C.F., Wang, W.M., Tse, Y.L. and Ma Ricky "Knowledge-based Intellectual Property Management for Technology Development Industry", Journal of Knowledge Management Practice, Vol. 14, No. 2, 							
	 http://www.tlainc.com/articl Cheung, C.F., Wang, W.M., Knowledge-Based System for 	Xu, X. and	Willoug					

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	p.57-83 (2014).
3.	Cornish, William Rodolph & Llewelyn, David. Intellectual property: patents,
	copyright, trade marks and allied rights. Sweet & Maxwell, 8/e, 2013.
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	yourself companion. Nolo, 5/e 2007.
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	Business Organizations: Cases and Materials 2006
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	Principles of Patent Law, 6 th ed., Foundation Press, 2013.
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	Cases and Materials, LEXISNEXIS, 2013.
10). Ventose, Eddy, Medical Patent Law - The Challenges of Medical Treatment,
	Edward Elgar, 2011.
11	. Grubb, Philip W. and Thomsen, Peter L., Patents for Chemicals,
	Pharmaceuticals and Biotechnology: Fundamentals of Global Law, Practice
	and Strategy, Peter L. Thomsen, 2010.
12	2. Wang, W.M. and Cheung, C.F. "A Semantic-based Intellectual Property
	Management System (SIPMS) for Supporting Patent Analysis", Engineering
	Applications of Artificial Intelligence, Vol. 24, No. 8, p.1510-1520 (2011).

Subject Code	ISE5699
Subject Title	Dissertation
Credit Value	9
Level	5
Pre-requisite/Co- requisite/Exclusion	Completed at least four subjects with a GPA of 2.5 or above
Objectives	 The aim of this subject is to equip students with the ability to 1. independently conduct investigatory work; 2. formulate problem(s) and develop appropriate research methodology; 3. write professional dissertations with master-level standard.
Intended Learning Outcomes	 Upon completion of this subject, students will be able to a. state the project objectives, identify the problems and constraints, and align appropriate methods and solutions to resolve these problems; b. demonstrate in-depth knowledge of an area in knowledge management that belongs to the core part of the project; c. demonstrate knowledge of the scope and limitations of knowledge management techniques adopted in the project; d. perform scientific and logical analyses of data collected from the project, as well as to draw appropriate conclusions that address the project objectives; e. produce a dissertation, which should be an exposition of the student's own work and ideas.
Teaching/Learning Methodology	The student and the academic supervisor should coordinate with each other periodically to discuss the progress of the dissertation. The academic supervisor provides guidance and advice to the student on the style of the dissertation presentation, among others. Academic and professional supervisors shall coordinate with each other, if necessary. The academic supervisor may be contacted for consultation at the university/student's workplace. A professional supervisor, if appointed, is expected to help in the assessment of the student's effort in the workplace (i.e., during oral examination) and to provide assurance that the student's work has been done

	independently. If the work for the dissertation forms part of a group endeavor within the student's organization, it is essential that the student's personal contribution be identified and that the professional supervisor can pinpoint the student's major contribution.In cases wherein no suitable professional supervisor has been identified, a student may seek an academic supervisor in behalf of the professional supervisor. If the dissertation topic focuses on the student's workplace, visit(s) to the said workplace should be conducted by the academic supervisor.						
	Teaching/Learning	Intend	ed subje	ct lear asses	-	outcome	es to be
	Methodologies	a	b	c		d	e
	Project supervision	~	~	/	✓	~	
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks % weight outcomes to be assessed Intended subject learning outcomes to be assessed a b c d e					-	
Outcomes	1. Oral Exam	30%	✓	✓	~	✓	
	2. Progress	20%	✓	✓		✓	✓
	3. Dissertation	50%	~	✓	~	✓	✓
	Total	100%			1	1	
	The oral examination req the problem domain, pro- analysis, and formulati appropriate). The student supervisor and provide u The dissertation is a com the student throughout th	ject objectiv ion of rec t is expected pdates on the plete report	ves, meth ommeno d to main e progre t demons	hodolo lations ntain r ess at a strating	gy, da and egular ll stag	ta colle evalu contac ges of th	ection and ations (if ct with the he project.

Student Study	Class contact:				
Effort Expected	34. Meetings and Oral Presentation	18 Hrs.			
	Other student study effort:				
	35. Project/Research work	240 Hrs.			
	36. Dissertation writing	90 Hrs.			
	Total student study effort				
Reading List and References	1. Blaxter, L., et al. 2001, <i>How to Research</i> , 2 nd edn, Open University Press				
	 Celsi, M. W., Money, A. H., Samouel, P., & Page, M. J. (2011). <i>Essentials of business research methods</i>. ME Sharpe. Neville, C. (2010). <i>The complete guide to referencing and avoiding plagiarism</i>. McGraw-Hill International. 				
	4. Murray, R. 2002, <i>How to Write a Thesis</i> , Open Unive	rsity Press			
	Additional reading materials may be provided by the acade	mic supervisor.			

Subject Code	MM511
Subject Title	Managing Organizations and People
Credit Value	3
Level	5
Normal Duration	1-semester
Pre-requisite/ Co-requisite/ Exclusion	Managing Organizations and People (MM5117 or MM5119)
Role and Purposes	This course aims to introduce students to concepts and practices of the four basic management functions of planning, organizing, leading and controlling. It aims to facilitate students to acquire a good grounding for further studies in more specialized management subjects, and to apply theories to practice in becoming more effective managers.
Subject Learning Outcomes	 Upon completion of the subject, students will be able to: a. learn theories about the four basic management functions of planning, organizing, leading and controlling, as well as the skills needed to perform these functions; b. have a better understanding of the evolution of management theories, how to deal with ethical issues and globalization, and general management functions and activities; c. apply some of the management theories to diagnose the practical management problems in the workplace and come up with proper solutions to deal with these problems; d. synthesize and digest new ideas, discoveries, and cutting-edge theories from various sources, such as popular management books, professional management magazines, and scientific journals.
Subject Synopsis/ Indicative Syllabus	Managing Organizations and People: An Overview Definitions of management, organization and organizational behaviour. History of management. The organization environment. International management. Contemporary management issues.
	Decision Making Models of management decision making. Managerial ethics and social

	responsibility.						
	Management Functions The planning process and strategic planning. The organising process and organising structure. The leading process and people management. The controlling process and controlling techniques.						
	People Management Skills Group and team dynamics. Leadership models. Communication models. resolution models. The management of corporate values and Management of change and organizational development.						
Teaching/Learning Methodology	Lectures are used to impart management and organizational concepts which are explored in greater detail via case studies. Students will learn management skills through participative experiential class exercises. Synthesis and application of knowledge are assessed by means of presentation, essays and examination.						
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				
			a.	b.	c.	d.	
	Continuous Assessment*	50%					
	1. Individual paper	25%	~	\checkmark	✓	~	
	2. Group presentation / project	25%	✓	~	~	~	
	Examination	50%	✓	✓	~	~	
	Total	100 %			1		
	 *Weighting of assessment methods/tasks in continuous assessment may be subject to each subject lecturer. To pass this subject, students are required to obtain Grade D or above in Continuous Assessment and Examination components. Explanation of the appropriateness of the assessment methods in 						
	the intended learning outco	mes: the var	ious met	hods are	designed	to ensure	
	that all students taking this sul	bject –					

	 engage in a case-study group project to apply theories to practice; write an individual research paper that explores a certain topic/area of management in greater depth; and take a closed-book exam to demonstrate conceptual and analytical skills by presenting arguments for and/or against certain topics based on theories, and if and when appropriate, taking circumstantial practicalities into consideration. 					
	Feedback is given to students immediately following the students are invited to join this discussion.	e presentations and all				
Student Study Effort Expected	Class contact:					
Expected	37. Lectures	39 Hrs.				
	Other student study effort:					
	38. Preparation for lectures	39 Hrs.				
	39. Preparation for assignment / group project and presentation / examination	78 Hrs.				
	Total student study effort156 Hrs.					
Reading List and References	 Recommended Textbooks Bartol, Kathryn, Tein, Margaret, Matthews, Graham (2011). <i>Management: A Pacific rim focus</i> (6th ed.) McGraw-Hill Australia. Bateman, Thomas S. and Snell, Scott A. (2011). <i>M</i> & collaborating in a competitive World (9th ed.). I Hill/Irwin. Daft, Richard L. (2014). <i>New era of management</i> (1 South-Western Cengage Learning. Griffin, Ricky W. (2011). <i>Management</i> (10th ed.). C Cengage Learning. Robbins, Stephen P. and Coulter, Mary (2009). <i>Mathematical Context (2009)</i>. 	 North Ryde, NSW: Management: Leading New York: McGraw- 1th ed.). International: China: South-Western, 				

USA: Prentice-Hall.
Williams, Chuck (2012). <i>Effective management: A multimedia approach</i> (5 th ed.). International Edition: South-Western/Cengage Learning.
References
Buchanan, D. & Huczynski, A. (2007). Organisation Behaviour- an Introductory Text, Prentice Hall: London.
Crainer, S. (2000). <i>The Management Century, a Critical Review of 20th Century Thought and Practice</i> , Jossey-Bass: San Francisco.
Dawson, Sandra. (1996). Analyzing organizations (3 rd ed.). Basingstoke: Macmillan.
Deresky, Helen. (2014). International management: Managing across borders and cultures (8 th ed.). Boston: Pearson.
Francesco, A. M. & Gold, B. A. (2005). <i>International Organizational Behavior</i> (7 th ed.), Pearson: Upper Saddle River, NJ.
George, Claude S., Jr. (1972). <i>The history of management thought</i> (2 nd ed.). Englewood Cliffs, New Jersey: Prentice Hall.
Hellriegel, Don, Jackson, Susan E. and Slocum, John W., Jr. (2005). <i>Management: A competency-based approach</i> (10 th ed.). Singapore: South-Western.
Hitt, Michael A., Black, J. Stewart and Porter, Lyman W. (2009). <i>Management</i> (2 nd ed.). Upper Saddle River, NJ: Pearson.
Hofstede, Geert. (2010). <i>Cultures and organizations: Software of the mind</i> – <i>Intercultural cooperation and its importance for survival</i> (3 rd ed.). New York: McGraw-Hill.
Kennedy, Carol. (1991). <i>Guide to the management gurus: Shortcuts to the ideas of leading management thinkers</i> . London: Business Books. Luthans, Fred. (2005). <i>Organizational behavior</i> (10 th ed.). Boston, MA:

McGraw-Hill Irwin.

Mintzberg,	Henry.	(1983).	Structure	in	fives:	Designing	effective
organization	ns. Engle	wood Cli	iffs, NJ: Pre	ntic	e-Hall.		

Mullins, Laurie. (2010), *Management and Organizational Behaviour* (9th ed.). Harlow: Financial Times Prentice Hall.

Pugh, D.S. and Hickson, D.J. (2007). *Writers on organizations* (6th ed.). Thousand Oaks, CA: Sage.

Robbins, Stephen P. (2007). *Organizational behavior* (12th ed.). Upper Saddle River: Prentice-Hall.

Journals

Academy of Management Executive Academy of Management Journal Academy of Management Review Administrative Science Quarterly Harvard Business Review Human Relations Journal of Applied Psychology Journal of General Management Journal of International Business Studies Journal of Management Journal of Management Studies Journal of Organizational Behavior Management Review **Organization Science Organization Dynamics Organization Studies** Personnel Psychology

Subject Code	MM521
Subject Title	Leading Change
Credit Value	3
Level	5
Normal Duration	1-semester
Pre-requisite/ Co-requisite / Exclusion	Managing Organizations and People (MM511)
	Managing Change (MM5211)
Role and Purposes	The objective of this subject is to assist senior management to develop a change mindset for managing their organizations in a changing environment. Students will learn the competencies of change agents in order to implement change initiatives in their organizations.
Subject Learning Outcomes	 Upon completion of the subject, students will be able to: a. develop a mindset for managing and leading organizational change; b. facilitate their organizations to learn faster and better; c. expand their competencies as change agents; and d. formulate organizational strategies to compete for the future.
Subject Synopsis/ Indicative Syllabus	 The Nature of Organizational Change Barriers to Change, Mobilizing for Change, Change as a Process through Time, The Three States of Change, Types and Paths of Change, The Change Style, Analyzing the Change Context, Exercising Change Judgment. Change Agent The Senior Management as Change Agent, Personal Competencies and Managerial Skills for Change Agent.
	 The Implementation Path The Cultural Web of an Organization, Change Levers and Interventions, Communication during Change, Planning, Monitoring and Resourcing, Middle Managers as Change Intermediaries. Competing for the Future
	Building the Learning Company, Facilitating Organizational Learning,

	Improving Productivity and Quality, Embracing Chaos and Complexity.						
Teaching/Learning Methodology	The class will help students to acquire a theoretical and practical orientation to manage and lead change in organizations through a series of experiential exercises and case studies. Students are expected to participate actively in class discussion.						
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	lear	Intended subject learning outcomes to be assessed (Please tick as appropriate)			
			a.	b.	c.	d.	
	Continuous Assessment [*]	[«] 50%					
	1. Individual assignment	30%	~		\checkmark		
	2. Group assignment	20%		~		\checkmark	
	Examination	50%	~	~	~	~	
	Total	100 %					
	 *Weighting of assessment methods/tasks in continuous assessment may be different, subject to each subject lecturer. To pass this subject, students are required to obtain Grade D or above in <u>both</u> the Continuous Assessment and Examination components. 						
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: the various methods are designed to ensure that all students taking this subject –						
	• The Individual Assignment is used to enable students to improve a change initiative introduced in their own organizations.						
	• The Group Assignment is designed to help students to learn as a group and apply the concepts learned in real life practice.						
	• Examination is used to leading change explain					ncepts of	

	Feedback is given to students immediately following the presentations and all students are invited to join this discussion.				
Student Study Effort Expected	Class contact:				
	• Lectures	39 Hrs.			
	Other student study effort:				
	• Self-study	81 Hrs.			
	Total student study effort	120 Hrs.			
Reading List and References	<u>Recommended Textbook</u>				
	Balogun, J. and Hailey, V.C. (2008). <i>Exploring Strategic Change</i> , Third Edition, Prentice Hall, London.				
	<u>Reading & References</u>				
	<u>Books</u>				
	Blanchard, K., Britt, J., Hoekstra, J. and Zigarmi, P. (2009). <i>Who Killed Change? Solving the Mystery of Leading People Through Change</i> , William Morrow, New York.				
	Collins, J. (2001). Good To Great: Why Some Companies make the Leap and Others Don't, Random House Business Books, London.				
	Goddard, J. and Eccles, T. (2012). Uncommon Sense, Common Nonsense: Why Some Organizations Consistently Outperform Others, Profile Books, London.				
	Hamel, G. and Prahalad, C.K. (1994). <i>Competing for the Future</i> . HBS Press, Boston.				
	Hammer, M. (2001). <i>The Agenda: What Every Business Must Do to Dominate the Decade</i> , Crown Business, New York.				
	Johnson, S. (1998). <i>Who Moved My Cheese?</i> G.P. Putnam's Sons, New York.				
	Kotter, J.P. (1996). Leading Change, HBS Press, Boston.				
	Kotter, J.P. and Rathgeber, H. (2005). <i>Our Iceberg Is Melting: Changing and Succeeding Under Any Conditions</i> , St. Martins Press, New York.				
	Latham, G.P. (2009). <i>Becoming the Evidence-Based Manager: Making the Science of Management Work for You</i> , Davies-Black, Boston.				
	McGoff, C. (2012). The Primes: How Any Group Can Solve Any Problem,				

Wiley, Hoboken, New Jersey.
Pedler, M., Burgoyne, J. and Boydell, T. (1997). <i>The Learning Company:</i> A Strategy for Sustainable Development, 2 nd Ed, McGraw-Hill, Maidenhead.
Roam, D. (2009). Unfolding the Napkin, Porfolio, New York.
Robertson, D.C. (2013). Brick by Brick: How Lego Rewrote the Rules of Innovation and Conquered the Global Toy Industry, Crown Business, New York.
Senge, P.M. (1990). The Fifth Discipline, Doubleday/Currency, New York.
Sibbet, D. (2013). Visual Leaders: New Tools for Visioning, Management and Organization Change, Wiley, Hoboken, New Jersey.
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Heifetz, R., Grashow, A. and Linsky, M. (2009). <i>The Practice of Adaptive Leadership</i> , Harvard Business Press, Boston.
Selected Articles
Berg, T. and Pooley, R. (2013). Contemporary iconography for rich picture construction, <i>Systems Research and Behavioral Science</i> , vol. 30, no. 1, 31-42.
Berg, T. and Pooley, R. (2013). Rich pictures: Collaborative communication through icons, <i>Systems Practice and Action Research</i> , vol. 26, No. 4, pp. 361-376.
Collins, J.C. and Porras, J.I. (1995). 'Building a visionary company', <i>California Management Review</i> , Vol. 37, No. 2, pp. 80-100.
De Geus, A. (1997). 'The living company', Harvard Business Review, Vol. 75, No. 2, pp. 51-59.
Jackson, M.C. (1995). 'Beyond the fads: Systems thinking for managers', <i>System Research</i> , Vol. 12, No. 1, pp. 25-42.
Lissack, M.R. (1997). 'Of chaos and complexity: Managerial insights from a new science', <i>Management Decision</i> , Vol. 35, No. 3, pp. 205-218.
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Mak, W.M. (1999). 'Cultivating a quality mind-set', <i>Total Quality Management</i> , Vol. 10, no. 4/5, pp. 622-626.
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Schein, E.H. (1993). 'How can organizations learn faster: The problem of entering the greenroom', <i>Sloan Management Review</i> , Vol. 34, No. 2, pp. 85-92.
Schyns, B., Tymon, A., Kiefer, T. and Kerschreiter, R. (2012). New ways to leadership development: A picture paints a thousand words, <i>Management Learning</i> , vol. 44, no. 1, pp. 11-24.
Strebel, P. (1996). 'Why do employees resist change?', <i>Harvard Business Review</i> , Vol. 74, No. 3, pp. 86-92.