

HANDBOOK FOR 2020

FACULTY of MANAGEMENT SCIENCES

DEPARTMENT of OPERATIONS & QUALITY MANAGEMENT

DEPARTMENTAL MISSION

To provide a quality service to learners at both undergraduate and post graduate level, through formally accredited programmes, in the field of Operations, Production and Quality Management.

The Department is committed to producing self-motivated, independent thinking and professional graduates in these fields

What is a University of Technology?

A university of technology is characterized by being research informed rather than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, research output is commercialized thus providing a source of income for the institution. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as defined by industry and the professions.

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IMPORTANT NOTICE

The departmental rules in this handbook must be read in conjunction with the University of Technology's General Rules contained in the current General Handbook for Students.

NOTE TO ALL REGISTERED STUDENTS

Your registration is in accordance with all current rules of the Institution. If, for whatever reason, you do not register consecutively for every year/semester of your programme, your existing registration contract with the Institution will cease. Your re-registration anytime thereafter will be at the discretion of the Institution and, if permitted, will be in accordance with the rules applicable at that time.

I. CONTACT DETAILS

All departmental queries to:

 Secretary:
 Mrs. K. Chellan

 Tel No:
 031-3735158

 Fax No:
 031-3735337

Location of Department: "B" Block, Ist floor,

ML Sultan Campus

All Student registration queries to:

Faculty officer: S. Reddy (Acting)
Tel No: 031-3735441

Location of Faculty office: A-Block, 1st Floor, ML Sultan Campus

Executive Dean: Prof V Rawjee (Acting)

Tel No: 031-3735130 Fax No: 031-3735333

Location of Executive Dean's office: A-Block, 1st Floor, ML Sultan Campus

2. **STAFFING** Head of Department

Name and Qualification R. Ramlagan (M-Tech: Quality)

Senior Lecturers

Dr. R. Naidoo (DPhil Quality Management) Prof. S. Singh (D-Tech: Quality)

Dr. M. Ramchunder (D. Com)

Lecturers

Mr. R. Moodaliyar (M-Tech: Quality) Ms. N. Nogaya (M-Tech: Quality)

Mrs. P. Ximba (MBA)

Part Time

Dr. S. Seethal (PhD)

Mr. A. Dabechuran (MBA)

Mrs T Reddy (Masters: Water Mgt.)

Mr B Hama (MBA) Mr D. Singh (Msc) Mr M. Mdubeki (MBA) Mr P Naidoo (MBA) Mr D Singh (MSc)

3. PROGRAMMES OFFERED BY THE DEPARTMENT

Programmes are offered in this Department which, upon successful completion, lead to the award of the following qualifications:

Qualification

Higher Certificate in Operations Management SAQA ID.

Diploma in Management Sciences: Operations Management SAQA ID. 94830

Advanced Diploma in Management Sciences: Operations Management. SAQA ID. 111427

Advanced Diploma in Management Sciences: Quality Management SAQA ID. 111427

Master of philosophy in Quality Management SAQA ID 102021 Doctor of Philosophy in Business Quality Management SAQA ID.96819

The following programme is phased out and there will be no registration of students.

ND: Operations Management (Phase out period from 2015 to 2019 = 5 years)

The B-Tech Operations Management and the B-Tech: Quality will be phasing out in 2019. No new first year students will be registered by the department in 2020 on both these programmes. Returning and repeat students will only be registered. The Advanced Diplomas will be introduced in 2020.

4. PROGRAMME INFORMATION

The department offers the Higher Certificate in Operations Management on a part time basis only. The Higher Certificate is a one year NQF level 5 qualification. On completion of this qualification, the student graduates with a Higher Certificate NQF level 5, 120 credit qualification. If a student intends to study further, the student may apply for admission on to the Diploma. The Diploma is offered on a full time and part time basis. Both the Advanced Diploma programmes are offered on a part time basis.

The Master of Philosophy in Quality Management and Doctor of Philosophy in Business Quality Management are offered on a full time and part-time basis. The full-time instructional programmes are offered to students between 08:00 and 16:50 daily. For those who are employed, a part-time lecture programme is arranged between the hours of 17:00 and 19:30. Tutorial programme is available to full time and part time students. Tutorials for part time students are scheduled on Saturdays to accommodate students that work in the evenings after 19h30pm. The programme content, final examinations and diploma issued are the same for both groups.

The Diploma in Management Sciences (Operations Management) has been developed to produce competent graduates who are grounded in the fundamental theory and principles that underlie the practice and growth in this field. This 360 credit diploma is at a NQF level 6 and is aligned with the qualification description as per the HEQF. In keeping with the institution's aims of creating, maintaining and developing its relationships with commerce,

government and industry, this diploma seeks to further strengthen the link between the institution and the world of work. The learning environment is flexible in both its mode of delivery and its methodologies, with a combination of formal face-to-face classes, technology based and independent learning contributing to the learners' experience

Diploma: Management Sciences (Operations Management)

See General Rules G21B See General Rules G7

4.1 Entrance requirements for the Higher Certificate in Operations Management are as follows:

In addition to Rule G7, applicants with a **National Senior Certificate (NSC)** or a **Senior Certificate (SC)** qualification must

score a minimum of 20 points, and achieve a minimum rating/symbol for English as reflected in the Table below. Applicants with a **National Certificate (Vocational) level 4** qualification must score a minimum of 50% for English or Communication.

Compulsory Subjects	NSC	SC		NCV
	Rating	HG	SG	
English home language/English first				
additional language/Communication	3	Е	D	50%

The total points scored by an applicant with a **National Senior Certificate (NSC)** will be calculated as follows:

Rating	Points
7	7
6	6
5	5
4	5
3	4
2	3
1	

The total points scored by an applicant with a **Senior Certificate (SC)** will be calculated as follows:

Symbol	Points: Higher Grade	Points: Standard Grade
А	8	6
В	7	5
С	6	4
D	5	3
E	4	2
F	3	1

 In calculating the points scored by a student, Life Orientation and more than one additional language will be excluded.

4.2 Entrance requirements for the Diploma in Management Sciences (Operations) are as follows:

Applicants wishing to enrol for the Diploma: Management Science (Operations Management) at the Durban University of Technology are required to have current matric National Senior Certificate (NSC)/NQF4 equivalent qualification, with a minimum of 25 points excluding Life Orientation.

Explanation of Points scale:

Symbol	Senior Certificate		
	Higher Grade(HG)	Standard Grade (SG)	
Α	8	6	
В	7	5	
С	6	4	
D	5	3	
E	4	2	
F	3	1	

	NSC			
	Level	Points		
90-100%	7	8		
80-89%	7	7		
70-79%	6	6		
60-69%	5	5		
50-59%	4	4		
40-49%	3	3		
30-39%	2	2		
0-29%	1	1		

The following admission rating system will be used in selecting students:

NSC Requirements	NSC Rating Code	Senior Certificate requirements
Compulsory Subjects		Applicants with 20 points or more holding a senior certificate or equivalent qualification will be considered.
English (home) OR	3	
English (1 st additional)	4	
Mathematics OR	3	
Mathematics Literacy	4	
And two (2) 20 credit		
subjects (not more than one language)	3	

Or

A National Certificate (Vocational) Level 4 issued by the Council for General and Further Education and Training with a) at least 50% in three fundamental subjects, including English; and b) at least 60% in three compulsory vocational subjects

Or

An access pathway will be provided for mature students (older than 23 years with a minimum of 3 years work experience in a related field and pass the proficiency test. Leaners may also be granted access to the qualification through DUT's Recognition of Prior Learning (RPL) process.

Selection criteria for this programme.

Applicants must meet the minimum requirements mentioned in 4.1 and 4.2 above. NSC and NCV applications received via the Central Applications Office (CAO) will be scored and ranked from highest to lowest points. Based on these rankings, those learners with the highest points will be offered a firm place, the learners who have applied with their grade 11 results may be offered a conditional place subject to them meeting the requirements in 4.1 and 4.2 above.

4.2 Registration

- 4.2.1 All courses offered are semester and registration takes place once a year in January. Admission to first year of study is in January. See General Rules G3, G4, G5, G6, G16 and G7.
- 4.2.2 The last date for acceptance of late enrolments or transfers from other departments will be four weeks from the commencement of lectures.
- 4.2.3 Applications by students wishing to transfer from other institutions/courses will be considered on an individual basis and may be accepted into the first year of the Diploma in Management Sciences (Operations Management)
- 4.2.4 Changing from old programme to new programme
- 4.2.5 The N.D. Operations Management will be phased out and students who have not completed the outstanding subjects in terms of the phase out plan, may either transfer to the new qualification, or may complete the outstanding subjects at another institution and may apply for exemption, subject to the provision of the general rules. Students transferring from the incomplete National Diploma Operations Management to the Diploma in Management Sciences (Operations Management) may, on application, be granted credit for subjects passed towards the new qualification.

4.3 Exemptions and transfers

Students will be able to carry credits from the ND: Operations Management to the new qualification within a four year period. See General Rules G8 and G9.

4.4 Work done during the year

- Year marks/course marks shall be determined in accordance with the requirements as indicated in the learner guides. For details of assessment refer to the learner guide pertaining to each subject. Failure to meet these requirements will disqualify a student from writing the final examination in the subject concerned.
- 2. Notwithstanding Rule G12 a year/semester mark obtained for any subject is valid only for the main examination in the year/semester in which a student is registered plus the supplementary examination in that subject if granted to the student in terms of Rule G13.
- 3. Students must verify course marks before the final examinations are written. A 40% course mark/DP is needed to gain entry into the exam.

5. Student conduct

See General Handbook Rules SRI to SRI2

6. Experiential Learning applicable for the Diploma in Management Science (Operations) Refer to Rule G28.

In order to qualify for the Diploma in management Sciences (Operations), all full-time students who are bona fide final year students (i.e. students who will complete their diploma programme at the end of the third year) will be required to undertake a period of experiential learning in an approved industrial/commercial organisation.

Details are available in the Departmental Experiential Learning Policy document.

The student is required to complete an official logbook detailing duties performed and be subject to an end-of-training evaluation by the immediate supervisor.

Although the Institution undertakes to assist the student/candidate in obtaining suitable experiential learning placement, the student/candidate should make efforts to find an "employer".

The employer must be accredited by the Durban University of Technology for the purposes of experiential learning. An experiential learning agreement creates a separate contract between the "employer" and the student/candidate

7. Programme Structure for Higher Certificate in Operations Management

Name of module	Module Code	Study Level	NQF Level	Module Credits	C/E*	Pre-Req.	Co-Req.	Exam.
Financial Literacy	FNLT101	1	5	12	С	NIL	NIL	No
Introduction to Technology	ITLG101	1	5	12	С	NIL	NIL	No
Cornerstone 101	CSTN101	1	5	12	С	NIL	NIL	No
Essentials of Operations Management	TBA*	1	5	20	С	NIL	NIL	No
Essentials of Project Management	TBA*	1	5	16	C	NIL	NIL	Yes
Fundamentals of Quality	TBA*	1	5	16	C	NIL	NIL	Yes
Introduction to Operations Management Techniques	TBA*	1	5	16	С	NIL	NIL	Yes
Introduction to Organisational Effectiveness	TBA*	1	5	16	С	NIL	NIL	Yes
TOTAL				120				

8. Programme structure Diploma Management Science: Operations

Code	Subjects	Assessment method	Semester	NQF level	Pre-Req	Major Subjec
CSTN101	Cornerstone 101	С	I	5		
EVST101	Environmental Sustainability	С	1	5		
IBSL101	Introduction to Business Law	С	1	5		
ITRB101	Introduction to Business	С	1	5		
QAPM101	Quantitative Approaches to Management Sciences	С	I	5		
TASM101	Time & Stress Management	С	2	5		
LWLF101	Law for Life	С	2	5		
ALWR101	Academic Literacy	С	2	5		
BCIF101	Business Communication & Information Literacy	С	2	5		
	Financial Literacy	С	2	5		
Yr 2						
OPRM101	Operations Management I	E	1	6		Yes
OPRT101	Operations Management Techniques I	E	I	6		Yes
OEFC101	Organizational Effectiveness I	E	1	6		Yes
ITLG101	Introduction to Technology	E	1	6		
OPRM201	Operations Management 2	E	2	6	Operations Management I	Yes
OPRT201	Operations Management Techniques 2	E	2	6	Operations Management Techniques I	yes
OEFC201	Organizational Effectiveness 2	E	2	6	Organizational Effectiveness I	Yes
WKPR101	Work Preparedness	E	2	6		
Yr 3						
OPRN301	Operations Management 3	E	I	6	Operations Management 2	Yes
OPRT301	Operations Management Techniques 3	E	I	6	Operations Management Techniques 2	Yes
OEFC301	Organizational Effectiveness 3	E	I	6	Organizational Effectiveness 2	Yes
PRJC101	Project Management	E	I	6		
SCHM101	Supply Chain Management	E	2	6		
WKSM101	Work Sampling	E	2	6		
OPEN101	Entrepreneurship	E	2	6		
QMNS101	Quality Management Systems	E	2	6		

C = Continuous Assessment

E = Final Examination

9. Progression rules including pass requirements

- The final pass mark for all subjects is 50%.
 Student's who have failed any modules in a previous semester are required to register for the failed modules first before any new modules are added.
- 2. Students may not register for more than 0,5 HEMIS credits per semester.
- 3. Where a module has a pre-requisite module, students are required to pass the pre-requisite module first.

See General Rule G14, G15, G16 and G21B.

10. Exclusion rules

Notwithstanding DUT General Rules relating to unsatisfactory students (G17, G21, G22 and G23), any student who does not pass a minimum of 40% of the modules for which they were registered in a year will be prevented from re-registering for the qualification. Students will have the right to appeal against their exclusion.

11. Subject Content

Students to read this section in conjunction with the relevant learner guides.

12. RULE DETAILS ENTRANCE REQUIREMENTS

See General Rules G7.

REGISTRATION

See General Rules G3, G4, G5, G16 and G6. Single registration system introduced in 2020.

SYLLABI

The syllabus for each subject indicated in the instructional programme above is published at the end of the handbook in alphabetical order.

ADVANCED DIPLOMA IN MANAGEMENT SCIENCES: OPERATIONS MANAGEMENT

Course Objective:

Manufacturing industries in South Africa play an important role in the South African economy as it employs a large percentage of the labour force. Job opportunities, therefore, are great in this sector.

Within the manufacturing sector the greater portion of the workers are engaged in the Production Function which includes specialist fields such as Quality Control, Work Study, Production Planning and Control, Inventory Control, Operations Research, etc. This Advanced Diploma prepares students to enter any of the specialist fields in production or to go directly into supervision of workers and later as Production/Operations Managers. Although experiential training is not compulsory, every effort is made to expose students to manufacturing organisations with visits and periodical training in factories.

ENTRANCE REQUIREMENTS

The ND: Production/Operations Management, Diploma in Management Sciences: Operations or an equivalent three year 360 credits tertiary qualification.

Selection criteria for this programme.

Applicants must meet the minimum requirements mentioned above. An acceptance list is compiled based on the first come first serve principle, provided that the student timeously furnishes the department with all relevant registration documents. Based on this list students will be offered a firm place on the programme. The department is obligated to adhere to the approved DHET Enrolment plan.

REGISTRATION

See General Rules G23, G16. The single registration system is introduced in 2020.

INSTRUCTIONAL PROGRAMME

The programme comprises Six (6) modules:

Semester I:

Research Methodology Organisational Behaviour Project Management

Semester 2:

Advanced Operations Management IV Advanced Operations Management Techniques IV Finance for Non-Financial Managers

DURATION OF INSTRUCTIONAL PROGRAMME

A minimum of one year part-time.

ASSESSMENT AND EXAMINATION

See General Rules G12/G13

PASS REOUIREMENTS

See General Rules G14 & G16

EXEMPTIONS

See General Rules G8

SYLLABI

The syllabus for each subject indicated in the instructional programme above is published at the end of the handbook.

ADVANCED DIPLOMA IN MANAGEMENT SCIENCES (QUALITY MANAGEMENT)

Course Objective

This course enables specialists in production, commerce, educational and service organizations to become qualified Quality Practitioners. The course is designed to develop innovative and entrepreneurial skills and culminates in an interactive project.

ENTRANCE REQUIREMENTS

Applicants may be in possession of a Bachelor's degree, National Diploma, 360 credits 3 years Diploma or equivalent 3 year 360 credits qualification and be in possession of a minimum of two year's quality related industrial experience. In addition, a departmental entrance test will be conducted.

Selection criteria for this programme.

Applicants must meet the minimum requirements mentioned above. Student scores of the entrance test will be ranked from highest to lowest. Based on these rankings, those learners with the highest scores will be offered a firm place on the programme. The department is obligated to adhere to the approved DHET Enrolment plan.

REGISTRATION

New and re-enrolling students register in January. Single registration system will be introduced in 2020. See General Rules G23

INSTRUCTIONAL PROGRAMME

The programme comprises of six (6) modules: Semester I Organisational Behaviour Research Methodology Quality Management Systems

Semester 2 Quality Auditing Techniques Statistical Quality Techniques Project Management

DURATION OF INSTRUCTIONAL PROGRAMME

A minimum of one year part-time.

ASSESSMENT AND EXAMINATION

There would be two tests per subject per semester. Assessments are also based on assignments and presentations held during each semester.

1 X 3 hour paper for each subject at the end of the semester.

See General Rules G12/G13

PASS REQUIREMENTS

See General Rules G14/G16

EXEMPTIONS

See General Rules G8

SYLLABI

The syllabus for each subject indicated in the instructional programme above is published at the end of the handbook in alphabetical order.

B. TECH: OPERATIONS MANAGEMENT (BTOPMI) Course Objective:

Manufacturing industries in South Africa play an important role in the South African economy as it employs a large percentage of the labour force. Job opportunities, therefore, are great in this sector.

Within the manufacturing sector the greater portion of the workers are engaged in the Production Function which includes specialist fields such as Quality Control, Work Study, Production Planning and Control, Inventory Control, Operations Research, etc. This Degree prepares students to enter any of the specialist fields in production or to go directly into supervision of workers and later as Production/Operations Managers. Although experiential training is not compulsory, every effort is made to expose students to manufacturing organisations with visits and periodical training in factories. This course will be phased out in 2019.

ENTRANCE REQUIREMENTS

The ND: Production/Operations Management or Diploma in Management Sciences (Operations) an equivalent three year 360 credits tertiary qualification.

REGISTRATION

See General Rules G23, G16

INSTRUCTIONAL PROGRAMME

The programme comprises five (5) subjects: Subject

Operations Management IV (offered in 2020)

Operations Management Techniques IV (offered in 2021)

Financial Planning and Control III (offered in 2020)

Introduction to Marketing Management I (Offered in 2021)

Research Methodology (Semester) (Offered in 2020)

DURATION OF INSTRUCTIONAL PROGRAMME

A minimum of two years part-time.

ASSESSMENT AND EXAMINATION

See General Rules G12/G13

PASS REQUIREMENTS

See General Rules G14 & G16

EXEMPTIONS

See General Rules G8

SYLLABI

The syllabus for each subject indicated in the instructional programme above is published at the end of the handbook.

B. TECH: QUALITY (BTQALI)

Course Objective

This course enables specialists in production, commerce, educational and service organizations to become qualified Quality Practitioners. The course is designed to develop innovative and entrepreneurial skills and culminates in an interactive project.. This course will be phased out in 2019.

ENTRANCE REQUIREMENTS

Applicants must be in possession of a Bachelor's degree, National Diploma or equivalent qualification and be in possession of a minimum of two years industrial experience. In addition, a further departmental entrance test will be conducted.

REGISTRATION

Returning students register in January. Single registration system introduced in 2020.

See General Rules G16 and G23

INSTRUCTIONAL PROGRAMME

The programme comprises of seven (7) subjects: Subject

Quality Management Systems 3	(Semester I)
Statistical Quality Techniques 3	(Semester I)
Quality Planning and Implementation 4	(Semester 2)
Quality Auditing Techniques 4	(Semester 2)
Project 4	(Annual)
Continual Quality Improvement 4	(Semester I)
Ouality Techniques 4	(Semester I)

DURATION OF INSTRUCTIONAL PROGRAMME

A minimum of two years part-time.

ASSESSMENT AND EXAMINATION

There would be two tests per subject per semester. Assessments are also based on assignments and presentations held during each semester.

1 X 3 hour paper for each subject at the end of the semester.

Project IV. Assessment for the latter is based on continuous evaluation, a presentation and a mini dissertation

See General Rules G12/G13

PASS REQUIREMENTS

See General Rules G14/G16

EXEMPTIONS

See General Rules G8

SYLLABI

The syllabus for each subject indicated in the instructional programme above is published at the end of the handbook in alphabetical order.

MASTER OF PHILOSOPHY IN QUALITY MANAGEMENT

This is a dissertation based qualification. Students must prove that they understand a particular problem in the industry in which they have done research, are able to analyse and set it out logically, are able to arrive at logical conclusions or a diagnosis, and are then able to make proposals for the improvement/the elimination of the problem. For further information, please address enquiries to the Department of Operations and Quality Management.

ADMISSION REQUIREMENTS

B. Tech: Quality or an equivalent qualification. See General Rules G24 (1).

REGISTRATION

See General Rules G26.

DURATION

See General Rules G24 (2).

ASSESSMENT AND DISSERTATION

See General Rules G24 (4).

DOCTOR OF PHILOSOPHY IN BUSINESS QUALITY MANAGEMENT

This is a thesis based qualification. In thesis students must provide proof of original and creative thinking, development work and problem-solving, and make a real contribution to the solving of a particular problem in the industry to which their research applies. For further information, please address enquiries to the Department of Operations and Quality Management.

ADMISSION REQUIREMENTS

An appropriate Magister Technologiae or an equivalent qualification. See General Rules G25.

SYLLABI

Note I Unless otherwise indicated all Year/Course marks will comprise 40% of the final examination mark. The examination shall comprise 60% of the final mark.

Note 2 Unless otherwise indicated all courses are of one semester duration.

MODULE CONTENT: HIGHER CERTIFICATE IN OPERATIONS MANAGEMENT

DUT Cornerstone 101

The module will start with the analysis of a current issue (one critical event or development will be and analysed; the event in focus will be selected on the basis of its connections to the theme of journeys and its relevance to the issues of ethics, diversity and critical citizenry). The topics will include such topics as the following, not necessarily in this sequence:

Our journeys: moving into higher education

• Journeys from self to community (including forms of community engagement

and service)

• Journeys of migration, discovery and coercion (including movement of labour)

Financial Literacy

Savings and budgeting

Debt Reduction and Asset Building (bank statement and bank recon) (interest rate, compound and simple)

Building a good credit rating

Consumer Protection (link with law)

Wages and taxation (basic categories, direct and indirect, vat, individual tax)

Investment Planning

Retirement (Building a pension fund / provident fund)

Introduction to Technology

Overview of computer terminology

Overview of the Ethics of Information Technology.

Access to the internet, upload and downloading files

Overview of Ms Word

Overview of a presentation package such as PowerPoint

Essentials of Operations management

Introduction to Operations Management, Product and service design, Facilities Layout, Location Planning & Analysis.

Introduction to Project management Tools and Techniques

Liner Programming, Simplex Method, Transportation, Measures of location for ungrouped Data, Measures of location for grouped Data.

Fundamentals of Quality

Introduction to quality, History of quality – the quality gurus, Quality Assurance versus quality control, Total Quality Management, Dimensions of quality, Costs of quality, TQM tools.

Introduction to Organisational effectiveness

Productivity, Human Factor in the Application of Work Study, Working conditions and the working environment, Method Study in the office, Problem Solving Techniques.

Essentials of Project management

Introduction to Project Management, The Project Management Process, Project Teamwork, Project Communication and Information Systems, Project Risk Management, An introduction to Project Tools

MODULE CONTENT - Diploma in Management Sciences (Operations Management)

DUT Cornerstone 101

The module will start with the analysis of a current issue (one critical event or development will be and analysed; the event in focus will be selected on the basis of its connections to the theme of journeys and its relevance to the issues of ethics, diversity and critical citizenry). The topics will include such topics as the following, not necessarily in this sequence:

Our journeys: moving into higher education

- Journeys from self to community (including forms of community engagement and service)
- Journeys of migration, discovery and coercion (including movement of labour)

Environmental Sustainability

- 1. Ecological studies
 - Ecosystems
 - Biodiversity
 - Conservation
 - Hydrological cycle

2. Climatology

- · Global warming and climate change
- Effects on biodiversity
- Strategies to curb facilitated climate change

3. Environmental health

- What is environmental health?
- Pollution
- Environmental risk and society
- Sustainable development

4. Environmental sociology

- Traditional environmental knowledge
- Poverty, abuse and crime
- Resource management
- Poverty, abuse and crime

Law for Life

- I. Life scenario: Motor vehicle accident:
 - Criminal law- purpose, procedure, parties, bail, sentences
 - Civil law-purpose, procedure, parties, outcomes
 - Law of insurance-purpose, concept of risk, the contract of insurance, the
 parties, the premium, the insurable interest and the doctrine of subrogation
 - Road Accident Fund- effect on the common law, purpose of the fund, application, forms

- 2. Life scenario: A man wishes to get married, he already has one wife. Different types of marital regime in South Africa
 - civil unions
 - customary unions
 - same sex life partnerships
- 3. Life scenario: A man dies leaving three wives and eight children.
 - The law of testate and intestate succession.
 - The requirements for a valid will.
 - Drafting a valid will.

Introduction to Business

Business Environment

The nature of the business environment?

External, market and internal environments and their inter-relationship.

Environmental analysis

Business Management

The nature of business management.

Management concepts: Planning, organising, leading and controlling.

Decision-making process

Careers in Business Management

Marketing Management

What is Marketing Management?

The 4P's (Product, Price, Promotion and Place)

Careers in Marketing Management

Retail Management

What is Retail Management?

Functions of Retailing

Retail mix

Role of retail in the supply chain

Careers in Retail Management

Human Resources Management

What is Human Resources Management & Personnel Management?

Careers in Human Resources Management

Public Relations Management

What is Public Relations Management?

Functions of Public Relations

Careers in Public Relations Management

Operations Management

What is Operations Management?

Concepts of efficiency, factories, products, layouts and quality.

Careers in Operations Management

Quantitative Approaches to Management Sciences

Basic Number Calculations

Working with Fractions

Working with Decimals

Decimal Fractions

Working with percentages

Using a calculator

Ratios

Powers and Roots

Algebra

Graphical representations – straight line graph

Tables and Charts

Statistics

Time and Stress Management

Introduction to Stress and Stress Management

Building Stress Management Skills

Understanding Time Management

Overcoming Barriers to Effective Time Management

Purpose of Planning

Personal Goal Setting

Introduction to Business law

Basic framework of the South African legal system.

General principles of the law of contract.

The principles of consumer law in South Africa.

Brief overview of the Basic Conditions of Employment Act 75 OF 1977.

Brief overview of social security at work: Unemployment Insurance Act 63 of 2000, Compensation for Occupational Injuries and Diseases Act 130 of 1993.

Specialisation specific:

Legislation relating to packaging in South Africa.

Intellectual property law.

The law relating to electronic payment systems.

Dismissals and unfair labour practice. The Labour Relations Act 66of 1995.

Censorship

Freedom of expression

Business Communication and Information Literacy

Group roles, functions and behaviour, and reflection on own and others' performance. Format and conventions for: various types of business letters; emails; reports; meetings documentation. Exercises for practice of the aforementioned. Functions and patterns of meetings and roles and functions of office bearers.

Accessing and searching electronic catalogues and databases for specific items; evaluating items so found. Use of at least one referencing system.

Financial Literacy

Savings and budgeting

Debt Reduction and Asset Building (bank statement and bank recon) (interest rate, compound and simple)

Building a good credit rating

Consumer Protection (link with law)

Wages and taxation (basic categories, direct and indirect, vat, individual tax)

Investment Planning

Retirement (Building a pension fund / provident fund)

Academic Literacy

Students will be introduced to the concept of academic literacies and the link between reading literature and literacy. Also academic research and the writing of assignments will be discussed. The problems associated with referencing and plagiarism will be addressed. Distribution of novel and learner guides will take place. Text reading targets

for the structured completion of students' own reading of the novel will be set.

Students will discuss in groups selected passages from novel with respect to register, culture and purpose. Oral feedback session.

Students will identify parts of sentence construction and compare direct and indirect speech. Students will complete a short written quiz to assess their progress in the reading of the novel. (online exercises)

Analysis of paragraphs. Students will identify topic sentences and other functionalities. Group work discussions and critical thinking on themes related to gender relations and language.

Students will write a short (15 lines) paragraph each related to group discussions on gender. Formative assessment and feedback to be given.

Students to read aloud in class from the novel!

Research Report Writing Workshop. Developing the basics of the academic research writing process.

Further developed by online exercises.

Proof-reading and correction exercises. Focus on punctuation and accuracy.

Writing and re-writing exercises. Focus on expression and clarity.

Group discussions and worksheet on multilingualism and translation in texts. Focus on glossary and dictionary use.

On-line self-assessments of students' progress with the prescribed novel.

Students will complete a short written quiz to assess their progress in the reading of the novel.

Textual analysis: Students will analyse selected passages from the novel and in groups complete worksheet on transculturation/intercultural communication.

Summary writing: purposes and strategies.

Summary writing exercises.

Summary writing: selecting relevant information.

Summary writing exercises.

Self-reflection:

How has reading the novel helped develop my academic literacy/literacies? What role does culture play in the modern lifestyle of both work and leisure? Submission of short written piece based on this reflection.

Year 2

Operations Management I

Introduction to Operations Management. Competitiveness, Strategy and Productivity. Product and Service design. Capacity Planning. Process Selection & Facility Layout. Location Planning & Analysis. Introduction to Quality.

Operations Management Techniques I

Linear programming: model formulation. Linear programming: Graphical solution. Linear programming: Simplex method of solution. Transportation models.

Introduction to Technology

Overview of computer terminology

Overview of the Ethics of Information Technology.

Access to the internet, upload and downloading files

Overview of Ms Word

Overview of a presentation package such as PowerPoint

Organizational Effectiveness I

Introduction to Effectiveness; Functions of management services; Productivity; Productivity & the Quality of life; Work study & productivity; Problem solving techniques; People within organizations; The human factor in enterprise operation; Work study & management; Work study & supervision; Work study & the worker; The management services practitioner. Methods & Systems Improvement. Method study & the selection of jobs; Record, examine, develop; Movement of workers in the working areas. Evaluate, define, install, maintain. Improving Administrative System. The importance of method study in the office; The procedure for improving methods of work in the office; design and control of forms; Office layout. Work Measurement: Time study. The equipment; Selecting and timing the job; Rating; From study to standard time.

Operations Management 2

Quality control and continuous improvement. Supply chain management. Purchasing and supplier management. Inventory management. Aggregate planning, Just-In-Time System (JIT). Scheduling. Logistics Management.

Operations Management Techniques 2

Linear programming: Applications. Decision theory. Quality techniques. Project management. Reliability. Matrices. Markov analysis.

Organizational Effectiveness 2

Standards. Follow-up and uses. Work sampling. Gain sharing schemes. Operation analysis. Manual work design. Workplace, equipment, and tool design. Work environment design. Design of cognitive work. Standard data. Pre-determined time systems.

Work Preparedness

Realistic expectations

Techniques for identifying personal strengths and weaknesses Career planning and goal setting Employment barriers and overcoming them Sources of career and job opportunity information Job search techniques Styles, types and applications of the CV (resume) The written CV Researching prospective employers Preparation for interviews Interviewing techniques Dress and hygiene practices Ethical behaviour and punctuality

Operations Management 3

Total quality management. Total productive maintenance. Project management resources planning & analysis. Production finance - budgets, cash flow, statements of account. Case studies.

Operations Management Techniques 3

Advanced linear programming applications. Sensitivity analysis and Duality. Waiting lines. Monte Carlo simulation. Integer programming. Goal programming

Organizational Effectiveness 3

The nature of organisational behaviour. Corporate responsibilities and Ethics. Managerial behaviour and effectiveness. Organisation strategy and structure. Patterns of structure and work organization. Technology and organizations. Job satisfaction. Organisation culture and change

Project Management

Introduction to Project Management
The Project Management Process
Dealing with Project Stakeholders
Project Leadership
Teamwork
Communication and Information Systems
Project Risk Management
The 9 knowledge areas of Project Management (PMBOK)
An introduction to Project Tools

Work Sampling

Planning the work sampling study
Determining the number of observations required
Determining the observation frequency
Designing the work sampling form
Using control charts
Recording observations
Analysis of data
Machine and operator utilisation
Determining allowances
Determining standard time
Self-observation
Preparation of report
Conducting presentations

Supply Chain Management

Key issues of supply chain management

Recent trends in supply chain management

Complexities that are involved with global supply chain

Strategic, tactical and operational responsibilities of supply chain management

Requirements of an effective supply chain.

Challenges in creating an effective supply chain

Procurement

Purchasing interfaces

The purchasing cycle

Centralised vs decentralised purchasing

Ethics in purchasing

Supplier Management

Choosing suppliers

Suppliers audits

Supplier certification

Supplier relationship management

Logistics

Movement within a facility

Incoming and outgoing shipments

Tracking goods

Evaluating shipping alternatives

Supply chain strategies

Many suppliers

Few suppliers

Vertical integration

Keiretsu networks

Virtual companies

Entrepreneurship

Introduction to entrepreneurship

The entrepreneurial life/ starting the business

The business plan

Financial and marketing plan

Business Organizations:

Types of businesses

Legal forms of ownership

Franchising

Sole proprietorship

Partnership

Corporation

Analysing a business environment

Evaluating a business

Customer relationship

Quality Management Systems

Background to QMS
Investigating quality mechanisms in an organisation
Stakeholder consultation
Planning the QMS
Designing the QMS
Implementation processes

MODULE CONTENT – ADVANCED DIPLOMA IN MANAGEMENT SCIENCES (OPERATIONS MANAGEMENT)

RESEARCH METHODOLOGY

Introduction to research. Research Ethics. Information retrieval. Formulating a research proposal. Survey research & analysis. Qualitative methods & analysis. Qualitative methods & data analysis. Report writing & dissemination.

ORGANISATIONAL BEHAVIOUR

Introduction to organisational behaviour
Managing demographic and cultural diversity in organisations
Individual differences and perception
Motivation theories
Managing groups and teams
Communication
Leadership
Conflict and negotiations
Organisational culture

PROJECT MANAGEMENT

Organisational change

Introduction to Project management
The Project lifecycle
Project management process
Project Methodology
Project stakeholder management
Project time management
Project procurement management
Project Resource Management
Project cost management
Project quality management
Project Risk Management

ADVANCED OPERATIONS MANAGEMENT IV

Product planning and competitive priorities. Process design. New technologies. Master production schedule. Materials requirement planning (MRP). Quality management. World class manufacturing (WCM). Project management. Strategic management

ADVANCED OPERATIONS MANAGEMENT TECNIQUES IV

Multidimensional linear programming applications. Dual theory and sensitivity analysis. Integer programming. Goal programming. Non-linear programming. Markov analysis. Management science and information systems.

FINANCE FOR NON FINANCIAL MANAGERS

Basic Accounting concepts
Cash Management including cash flow statements
Financing options (debt versus equity: choosing the best option)
Time value of money
Risk and return
Analysis and interpretation of financial statements
Job costing
Cost Volume Profit Analysis

MODULE CONTENT - ADVANCED DIPLOMA IN MANAGEMENT SCIENCES (QUALITY MANAGEMENT)

RESEARCH METHODOLOGY

Introduction to research. Research Ethics. Information retrieval. Formulating a research proposal. Survey research & analysis. Qualitative methods & analysis. Qualitative methods & data analysis. Report writing & dissemination.

QUALITY MANAGEMENT SYSTEMS 3

Basics of organizational management. Basics of quality management and quality concepts. ISO 9000:2000 systems. ISO/TS 16949, ISO 22000. ISO 14001. ISO 17025 and OHSAS 18001/50001:2011 Introduction to auditing. Case study work. Out-sourcing. Risk assessment. Introduction to integration of management system.

STATISTICAL QUALITY TECHNIQUES 3

Modern quality management & improvement; The DMAIC problem solving process; Describing variations; The normal distribution; Elementary probability rules; Introduction to hypothesis testing; Simple linear regression & correlation; How SPC

works; Variable control chart; Attributes control charts; Determining process & measurement systems capabilities.

QUALITY AUDITING TECHNIQUES 4

Product process and system audit. ISO 19011:2011. Total Quality Management in purchasing/supplier relations.

ORGANISATIONAL BEHAVIOUR

Introduction to organisational behaviour

Managing demographic and cultural diversity in organisations
Individual differences and perception

Motivation theories

Managing groups and teams

Communication

Leadership

Conflict and negotiations

Organisational culture

Organisational change

PROJECT MANAGEMENT

Introduction to Project management

The Project lifecycle

Project management process

Project Methodology

Project stakeholder management

Project time management

Project procurement management

Project Resource Management

Project cost management

Project quality management

Project Risk Management

MODULE CONTENT

B. TECH: OPERATIONS MANAGEMENT (BTOPMI)

OPERATIONS MANAGEMENT IV (OPMN401)

Product planning and competitive priorities. Process design. New technologies. Master production schedule. Materials requirement planning (MRP). Quality management. World class manufacturing (WCM). Project management. Strategic management.

FINANCIAL PLANNING AND CONTROL III (FPLC301)

Elements of costs in production. Fixed and variable costs. Marginal costs and break-even costs. The concept of contribution and profitability of marginal products. Planning and controlling plant and equipment expenditure. Sources of funds for financing plant and equipment. Long term investment decisions. Budgeting and budgetary control. The relationship between the production manager and the cost accountant. Computer software applications.

OPERATIONS MANAGEMENT TECHNIQUES IV (OPMT401) - Subject to change

Multidimensional linear programming applications. Dual theory and sensitivity analysis. Integer programming. Goal programming. Non-linear programming. Markov analysis. Management science and information systems.

INTRODUCTION TO MARKETING MANAGEMENT I (IMKM101)

(Marketing Management)

Modern marketing. The market. The product. Distribution structure. Pricing policy and pricing systems. Promotional activities. Planning and evaluation of marketing strategies. Case studies on all the topics.

RESEARCH METHODOLOGY (RMPMI01)

Introduction to research. Research Ethics. Information retrieval. Formulating a research proposal. Survey research & analysis. Qualitative methods & analysis. Qualitative methods & data analysis. Report writing & dissemination.

B. TECH: QUALITY (BTQALI) QUALITY MANAGEMENT SYSTEMS 3 (QUMS301)

Basics of organizational management. Basics of quality management and quality concepts. ISO 9000:2000 systems. ISO/TS 16949, ISO 22000. ISO 14001. ISO 17025 and OHSAS 18001/50001:2011 Introduction to auditing. Case study work. Out-sourcing. Risk assessment. Introduction to integration of management system.

STATISTICAL QUALITY TECHNIQUES 3 (SQTQ301)

Modern quality management & improvement; The DMAIC problem solving process; Describing variations; The normal distribution; Elementary probability rules; Introduction to hypothesis testing; Simple linear regression & correlation; How SPC works; Variable control chart; Attributes control charts; Determining process & measurement systems capabilities.

QUALITY PLANNING AND IMPLEMENTATION 4 (QPIM401)

Quality gurus. Service quality. Change management. CPA network & gap analysis. Quality awards and excellence models. Service Quality: Strategic quality management. Introduction to "New age gurus" eg. Steven Covey, Clem Sunter & more.

QUALITY AUDITING TECHNIQUES 4 (QATE401)

Product process and system audit. ISO 19011:2011. Total Quality Management in purchasing/supplier relations.

PROJECT 4: QUALITY (PROJ401)

Project Methodology Project Management skills. Presentation of a colloquium. Submission of a 240 hour project.

CONTINUAL QUALITY IMPROVEMENT 4 (CQUI401)

Introduction to Total Quality Management. ISO 9000 and Total Quality Management. Business philosophies. Quality function deployment and quality policy deployment. Business process re-engineering. Quality information systems and quality cost calculation. Surveying customer satisfaction. Teamwork. Motivation. Scenario analysis. Resilience training. Introduction to Six Sigma. Innovation vs optimization vs creativity. Automation. Balance score card.

QUALITY TECHNIQUES 4 (QUAT401)

Probability & discrete probability distribution. Continuous probability distribution and sampling distributions. Estimation procedures. Reliability. Sampling. EWMA chart, CUSUM chart. The design of experiments: One factor and randomized block experiments. The design of experiments: Factorial designs.

E&OE