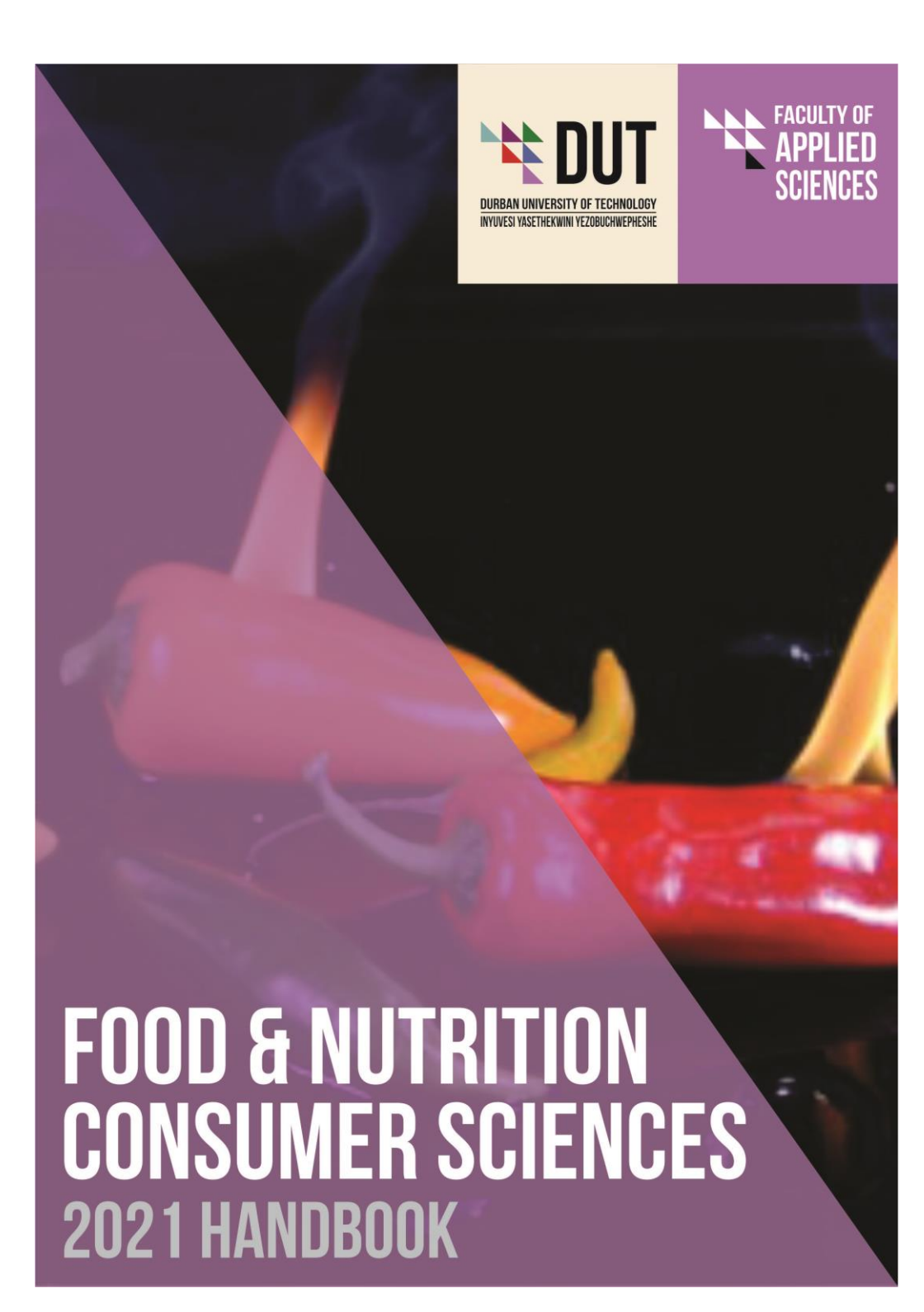




**DUT**  
DURBAN UNIVERSITY OF TECHNOLOGY  
INVUVESI YASETHEKWINI YEZOBUCHWEPHESHE



**FACULTY OF  
APPLIED  
SCIENCES**



# **FOOD & NUTRITION CONSUMER SCIENCES**

## **2021 HANDBOOK**

HANDBOOK FOR 2021

FACULTY of

APPLIED SCIENCES

**DEPARTMENT of  
FOOD AND NUTRITION:  
CONSUMER SCIENCES**

## **IMPORTANT NOTICES**

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.

The rules in this departmental handbook must be read in conjunction with the General Rules (G Rules) contained in the DUT General Handbook for Students as well as the relevant Study Guides.

With respect to an appeal, your attention is specifically drawn to Rules GI (8) and (9), and to the process of dealing with student's issues.

## **STRATEGIC DIRECTION (Strategic Plan 2.0 July 2017- December 2019)**

### **FACULTY OF APPLIED SCIENCES**

**[Educate. Engage. Innovate.]**

#### **VISION**

Leading innovation through science and technology

#### **MISSION STATEMENT**

- Educate students
- Generate new scientific knowledge
- Engage communities

#### **VALUES**

1. **Accountability:** We take ownership of all activities, resources and tasks required of us. We deliver on our promises and responsibilities.
2. **Integrity:** We adhere to moral standards and principles. We are transparent and consistent in all our actions, and lead by example.
3. **Dedication:** We are committed to achieving our goals and expectations.
4. **Professionalism:** We operate within clear boundaries with respect to our code of conduct.
5. **People Oriented:** We are committed to sustaining the morale and holistic development of staff and student. We value diversity in all forms.

### **DEPARTMENT OF FOOD AND NUTRITION**

#### **VISION**

A preferred provider of employable, innovative and socially responsible food and nutrition graduates

#### **MISSION STATEMENT**

To facilitate student centered learning and applied research  
In the science of food and nutrition  
To serve society.

#### **VALUES**

1. Passion and dedication
2. Excellence and professionalism
3. Teamwork and fun
4. Honesty and Integrity
5. Personal and professional development
6. Social responsibility

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## I. DEPARTMENTAL & FACULTY CONTACT DETAILS

### All departmental queries to:

**Secretary:**

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Fax No:

Email:

Location of Department:

Miss N Blose

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(031) 373 2795

[noxolob@dut.ac.za](mailto:noxolob@dut.ac.za)

S9 Level 3, Room 304, Steve Biko Campus

### All Faculty queries to:

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Facsimile No:

Email:

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031 373 2175

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**Faculty Assistant:**

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**Executive Dean:**

Executive Dean's Secretary:

Telephone No:

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Location:

Prof S Singh

Mrs N Naidoo

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[dutfas@dut.ac.za](mailto:dutfas@dut.ac.za)

Between Block S6 and S7, Level 4,  
Steve Biko Campus

## **2. DEPARTMENTAL STAFF**

### **Head of Department**

Dr Heleen Grobbelaar, PhD: Food and Nutrition (DUT)

### **Senior Lecturers**

Dr Ashika Naicker, PhD: Nutrition (NWU)

### **Lecturers**

Ms Sue Vermeer, MappSci: Food and Nutrition (DUT)

Ms Anjellah Reddy, BTech: Food & Beverage Mgt (DIT)

Ms Evonne Singh, MEd (UKZN)

Ms Onwaba Makanjana, MTech: Food & Beverage Mgt (VUT)

Ms Lisebo Mothepu, MappSci: Food and Nutrition (DUT)

Vacant post

### **Administrative Staff**

#### **Senior Technician**

Ms Jane Visagie, HDE: Home Economics (DOK)

#### **Technician**

Ms Phindile Nzama, MappSci: Food and Nutrition (DUT)

Mrs Sindisiwe Nene, BTech: Consumer Science: Food and Nutrition (DUT)

#### **Laboratory Assistants**

Mrs Camilla Govender, BTech: Consumer Science: Food and Nutrition (DUT)

Ms Monica Lindiwe Nxumalo

Mr Jabu Chiya, BTech: Consumer Science: Food and Nutrition (DUT)

(TN) Vacant post

### 3. DEPARTMENTAL INFORMATION

#### 3.1 QUALIFICATIONS OFFERED BY THE DEPARTMENT

The following programmes are offered in this department:

Qualification	Qualification Code	Important Dates	SAQA NLRD ID
ND: Consumer Science: Food and Nutrition	NDCSF2	From January 2010	66412
ND: Consumer Science: Food and Nutrition (ECP)	NDCFF2	From January 2010	66412
Diploma in Consumer Sciences Food and Nutrition	DICSF1	From January 2020	110205
BTECH: Consumer Science: Food and Nutrition	BTCSE1	From January 1996	66409
Advanced Diploma in Consumer Sciences in Food	ADCSF1	From January 2020	110047
Masters of Applied Science in Food and Nutrition	MSFNT1	From January 2015	96786
Doctor of Philosophy in Food and Nutrition	DPFNT1	From January 2015	97059

#### 4. NATIONAL DIPLOMA: CONSUMER SCIENCE: FOOD AND NUTRITION (NDCSF2) (to be phased out)

##### Purpose of Qualification

The discipline of Consumer Science: Food and Nutrition assists consumers in using resources to make healthy lifestyle choices. It highlights the need for a healthy diet and good quality, safe food.

To produce active and reflective graduates with a sound knowledge of food and nutrition, the programme integrates the study fields of food and nutrition, whilst academic learning is complemented by the development of culinary skills, ethics, effective communication and critical citizenry.

Students are required to complete a three month work integrated learning placement during the third year of study. This enables the integration and application of knowledge, as well as skill and value development in an authentic setting.

Further study would enable graduates to perform as a food researcher and developer, manage a food operation or market food products in the retail and production industries. There is further scope to conduct research in the food and consumer science fields to enhance the quality of life of the consumer.

## 4.1 PROGRAMME STRUCTURE (3 YEAR)

Codes	Subject Offering	Semester/ Annual	Assessment Method	NATED Credits	Pre-requisite Subjects
FFSC101	Food and Food Science 1	Year 1 Annual	3Hr Th & 3Hr Pr Ex	0.280	N/A
NUTR101	Nutrition 1	Year 1 Annual	3Hr Th Ex	0.190	N/A
FCOM101	Food Communication 1	Year 1 Annual	CA	0.100	N/A
PHFD101	Physiology Food 1	Year 1 Annual	3Hr Th Ex	0.100	N/A
PSCN101	Physical Science 1	Year 1 Annual	2Hr Th Ex	0.110	N/A
CMPT101	Computer Skills 1	Year 1 Semester 1	CA	0.100	N/A
CNSB101	Consumer Behaviour 1	Year 1 Annual	3Hr Th Ex	0.100	N/A
BSFS101	Behavioural Studies 1	Year 1 Annual	3Hr Th Ex	0.070	N/A
FDMI101	Food Microbiology 1	Year 2 Annual	3Hr Th Ex	0.160	N/A
BSMG101	Business Management 1	Year 2 Annual	3Hr Th Ex	0.100	N/A
FFSC201	Food and Food Science 2	Year 2 Annual	3Hr Th & 3Hr Pr Ex	0.280	FFSC101
NUTR202	Nutrition 2	Year 2 Annual	3Hr Th Ex	0.190	NUTR101
FCOM201	Food Communication 2	Year 2 Annual	3Hr Th Ex	0.180	FCOM101
FDPM101	Food Production Management 1	Year 2 Annual	CA	0.200	N/A
FFSC301#	Food and Food Science 3	Year 3 Sem 1	CA	0.240	FFSC201
FCOM301#	Food Communication 3	Year 3 Sem 1	CA	0.110	FCOM201
NRTN301#	Nutrition 3	Year 3 Sem 1	CA	0.190	NUTR202
FDPR202	Food Practice 2	Year 3 12 weeks in Semester 2	CA	0.300	Food & Food Science I, II, Food Communication I, II, Nutrition I, II.

**KEY:** Assessment: Th= Theory, EX= Examination, Pr= practical, CA = Continuous Assessment is no Final examination for these subjects/modules.

# These subjects are final level subjects.

A Pre-Req (prerequisite) means this subject must be passed prior to registration for the subsequent subject/module.

## 4.2 PROGRAMME INFORMATION

This information must be read in conjunction with the programme rules that follow.

### 4.2.1. Academic Integrity

Refer to the DUT General Rules pertaining to academic integrity G13(I)(o) —covering falsification of academic records, plagiarism and cheating. These will be enforced wherever necessary to safeguard the worthiness of our qualifications, and the integrity of the Faculty of Applied Sciences at DUT.

### 4.2.2. Code of Conduct for Students

A professional code of conduct pertaining to behavior, appearance, personal hygiene and dress shall apply to all students registered with the Faculty of Applied Sciences, at all times. Refer to Programme Rule 4.3.8 below.

### 4.2.3. Attendance

Students are expected to achieve 100% attendance for all planned academic activities as these are designed to provide optimal support for the required competency. Students are expected to be punctual for all academic activities. Penalties may be invoked for late attendance. Refer to Programme Rule 4.3.9 below.

#### **4.2.4 Work Integrated Learning (WIL)**

The compulsory WIL component of this programme comprises 3 months of work integrated learning (WIL) as part of the third year of study.

The Learning Agreement creates a separate contract between the “employer” and the student. Start and finish dates are determined by DUT and the placement provider. Refer to the WIL Study Guide for rules and details governing work integrated learning and the assessment process. The programme WIL coordinator, in conjunction with the industry representative, is responsible for the assessment.

All prescribed subjects (instructional offerings) and the prescribed work integrated learning component must be passed in order to obtain sufficient credits to complete the qualification. Refer to Programme Rule 4.3.7 below.

#### **4.2.5. Assessment and Moderation**

Students are expected to work steadily through the period of registration in order to achieve the highest results possible.

Assessment details are listed under each subject at the back of this handbook. Assessments could include a variety of testing methods including, but not limited to, written tests, oral tests, theoretical and/or practical examinations, group work and assignments.

Assignments must be handed personally to the lecturer who will record their receipt. Late submission will be penalized.

In the case of a continuous assessment subject (a subject which has no final examination/s or supplementary examination/s) opportunities for reassessment are provided for students who fail assessments. These are stipulated in the relevant study guide.

Moderation follows the DUT Assessment Policy stipulations. Refer to Programme Rule 4.3.9 below.

#### **4.2.6. Employment Opportunities**

Employment opportunities are multiple and graduates find employment within the food retail, production and service industries. These include employment in food companies as customer development consultant in sales; in the marketing department including brand management and market research; in channel management; product development; recipe development; fresh produce development technology; as innovation chefs and as a consumer affairs consultant. In quality assurance employment as a food and nutrition compliance officer, a food safety manager or a food quality controller.

In food retail, graduates can fill positions in food buying, food product management, department management, fresh product development and brand development. In the food service industry employment as a food service manager or chef. In the media as cookery assistants, food stylists or food journalist. In the nutrition field working in communities as a nutrition advisor. Opportunities exist for graduates to pursue further educational qualifications.

## 4.3 PROGRAMME RULES

### 4.3.1 Pass Requirements

In addition to the DUT Rules G12, G14 and G15, the following programme rules apply:

4.3.1.1 In addition to the general requirements for a year/semester mark as stipulated in Rule G14 and G15, the definition of the term “satisfactory attendance” shall include:

- 90% attendance of all practical classes in a subject. Exceptional circumstances may be reviewed by the Head of Department.
- Attendance is compulsory at all functions, guest speaker sessions, organized short courses, outings and educational tours arranged by the department. (Any additional cost involved will be the responsibility of the student.)
- Students will be required to arrive timeously at lectures and practicals. Students who arrive late will only be admitted at the lecturer’s discretion on presentation of a valid reason.
- The department reserves the right to verify any medical certificate.

4.3.3.2 Students will be required to participate in departmental promotions and functions outside of normal tuition times, which may take place off campus.

4.3.3.3 Laboratory rules shall apply to all students. Refer to relevant study guides.

4.3.3.4 For a continuous assessment subject: The final mark for the subject comprises a mark obtained from work completed during the year/semester. There is no examination for the subject. A portion of this work is moderated and all is work retained by the department for a period of three (3) years as proof of performance. Details are in each subject study guide. If the final mark is a fail (less than 50%) the student will be required to re-register for and repeat that subject.

4.3.3.5 All doctor’s, driver’s license appointments etc., made for students must not clash with practicals and assessment dates.

### 4.3.2 Re-registration Rules

In addition to the DUT Rule G16, and all prerequisite subjects as identified in the Programme Structure (4.1), the following programme rule applies:-

#### 4.3.2.1 Promotion from Year 1 to Year 2:

Students must pass 4 first level subjects of which two must be major subjects (Nutrition I, Food and Food Science I or Food Communication I) in order to register for Year 2.

*(Approved by Senate Rules Comm wef 2014/10)*

#### 4.3.2.2 Promotion for All Other Years of Study:

A student must pass a minimum of TWO subjects per annum but must still meet the maximum time allowed (DUT Rule G17).

### **4.3.3 Exclusion Rules**

In addition to DUT Rule G17, a first year student who fails three or more subjects with a final result of less than 40% in each subject is not permitted to reregister in this programme. Deregistration from any subjects is subject to the provision of DUT Rule G6.

*(Approved by Senate Rules Comm wef 2014/10)*

### **4.3.4 Interruption of Studies**

In accordance with Rule G21A(b), the minimum duration for this programme will be 3 years of registered study and the maximum duration will be 5 years of registered study, including any periods of WIL. Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration.

*(Approved by Senate Rules Comm wef 2014/10)*

### **4.3.5 Work Integrated Learning (WIL) Rules**

In addition to Rule G28, and the requirements as detailed in the relevant Study Guides, the following programme rules apply.

4.3.5.1 WIL can only be undertaken if the student has passed the first and second year major subjects (Food and Food Science I, II, Food Communication I, II and Nutrition I and II).

4.3.5.2 A student will undergo 3 months of work integrated learning (WIL) as part of the third year of study.

4.3.5.3 The department undertakes to assist the student in obtaining suitable WIL placement.

4.3.5.4 A student who finds their own placement must ensure the workplace is approved by the department

*(Approved by Senate Rules Comm wef 2014/10)*

### **4.3.6 Code of Conduct**

In addition to the Student Code of Conduct in the DUT General Handbook for Students, and the relevant requirements as stated in the appropriate Study Guides, the following rules apply:

#### **4.3.6.1 Conduct of Students in Practical Facilities**

Strict adherence to instructions issued by technical, supervisory or academic staff is required due to the need to ensure effective and safe practice in these facilities. Misconduct or disregard for instructions will be referred to the relevant disciplinary procedure.

*(Approved by Senate Rules Comm wef 2014/10)*

#### **4.3.6.2 Uniforms**

Students must adhere to instructions issued by technical, supervisory or academic staff regarding the specific dress code required during practicals. Non-compliance will result in the student being denied access to the venue. *(Approved by Senate Rules Comm wef 2014/10)*

#### **4.3.7 Attendance and Assessment**

4.3.7.1 A student who, for any valid reason (Refer to Programme Rule 4.3.9.2 below), is absent from a particular practical or test, must provide written proof of the reason for the absence to the lecturer concerned, within five (5) working days of returning to the institution in order to be considered for a special assessment.

*(Approved by Senate Rules Comm wef 2014/10)*

4.3.7.2 The DUT Rule G13(3)(a) which refers to special examinations also refers to special assessments set within departments for students who have missed coursework assessments. In these cases the department will determine the validity of the student's reason for not taking the assessment, and the nature of the special assessment. *(Approved by Senate Rules Comm wef 2014/10)*

#### **4.3.8 Health and Safety**

Students must adhere to all Health and Safety regulations both while at DUT and in WIL placements. Failure to do so will be treated as a breach of discipline. Refer to the appropriate Health and Safety policies.

*(Approved by Senate Rules Comm wef 2014/10)*

#### **4.3.9 Registration with SAAFoST and SACA**

Students will be registered as a student member with the South African Association of Food Science and Technology (SAAFoST) and with the South African Chefs Association (SACA). The SAAFoST registration is for the duration of the first qualification. The SACA membership is for two years, voluntary professional membership with SACA is encouraged in the third year of study.

## 5. NATIONAL DIPLOMA: CONSUMER SCIENCE: FOOD AND NUTRITION (EXTENDED CURRICULUM) (NDCFF2) (to be phased out)

### Purpose of Qualification

Graduates of the National Diploma will be competent in the application of scientific based food and nutrition knowledge and culinary skills in a range of work activities including recipe development for fresh food retail products, food production and foodservice; with the aim of improving consumer well-being. This qualification is offered over a minimum of four years of study which is devised to enhance student development and to improve the student's chances of successful completion.

## 5 NATIONAL DIPLOMA: CONSUMER SCIENCE: FOOD AND NUTRITION (NDCFF2)

### 5.1 PROGRAMME STRUCTURE (4 YEAR)

Codes	Subject Offering	Semester/ Annual	Assessment	NATED Credits	Pre-requisite
CSCPI01	Consumer Science Practice 1	Year 1 Annual	CA	0.350	N/A
FCOMI01	Food Communication 1	Year 1 Annual	CA	0.005	N/A
CMPTI01	Computer Skills 1	Year 1 Sem 1	CA	0.005	N/A
CNSBI01	Consumer Behaviour 1	Year 1 Annual	3Hr Th Ex	0.005	N/A
BSFSI01	Behavioural Studies 1	Year 1 Annual	3Hr Th Ex	0.005	N/A
CSCP201	Consumer Science Practice 2	Year 2 Annual	3Hr Th Ex	0.400	CSCPI01
FFSCI01	Food and Food Science 1	Year 2 Annual	CA	0.120	N/A
NUTRI01	Nutrition 1	Year 2 Annual	3Hr Th & 3Hr Pr Ex	0.050	N/A
PHFDI01	Physiology Food 1	Year 2 Annual	3Hr Th Ex	0.055	N/A
PSCNI01	Physical Science 1	Year 2 Annual	3Hr Th Ex	0.055	N/A
FDMII01	Food Microbiology 1	Year 2 Annual	2Hr Th Ex	0.160	N/A
FFSC201	Food and Food Science 2	Year 3 Annual	3Hr Th & 3Hr Pr Ex	0.280	FFSCI01
FDPMI01	Food Production Management	Year 3 Annual	CA	0.200	N/A
BSMG101	Business Management 1	Year 3 Annual	3Hr Th Ex	0.100	N/A
FCOM201	Food Communication 2	Year 3 Annual	3Hr Th Ex	0.180	FCOMI01
NUTR202	Nutrition 2	Year 3 Annual	3Hr Th Ex	0.190	NUTRI01
FFSC301#	Food and Food Science 3	Year 4 Sem 1	CA	0.240	FFSC201
FCOM301	Food Communication 3	Year 4 Sem 1	CA	0.110	FCOM201
NRTN301	Nutrition 3	Year 4 Sem 1	CA	0.190	NUTR202
FDPR202	Food Practice 2	Year 4 12 weeks in	CA	0.300	Food & Food Science I, II, Food

**KEY:** Assessment: Th= Theory, EX= Examination, Pr= Practical, CA = Continuous Assessment is no Final examination for these subjects/modules.

A Pre-Req (prerequisite) means this subject must be passed prior to registration for the subsequent subject/module.

# These subjects are final level subjects.

### 5.2 PROGRAMME INFORMATION

Refer to 4.2 Programme Information under the ND: Consumer Science: Food and Nutrition.

### **5.3 PROGRAMME RULES**

Refer to 4.3 Programme Rules under the ND: Consumer Science: Food and Nutrition and the following rules which apply specifically to ND: Consumer Science: Food and Nutrition (ECP).

#### **5.3.1 Pass Requirements**

Refer to Rule 4.3.3 which is applicable to both the ND and ND (ECP).

#### **5.3.2 Re-registration Rules**

In addition to the DUT Rule G16, and all prerequisite subjects as identified in the Programme Structure (5.1), the following programme rules apply:-

##### **5.3.2.1 Promotion for All Other Years of Study for ECP students:**

An ECP student must pass a minimum of TWO subjects per annum but must still meet the maximum time allowed (DUT Rule G17).

#### **5.3.3 Exclusion Rules**

Refer to Rule 4.3.5 which is applicable to both the ND and ND (ECP).

#### **5.3.4 Interruption of Studies**

In accordance with Rule G21A(b), the minimum duration for this programme will be 4 years of registered study and the maximum duration will be 5 years of registered study, including any periods of WIL. Should a student interrupt their studies by more than 3 years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration. *(Approved by Senate Rules Comm wef 2014/10)*

#### **5.3.5 Work Integrated Learning Rules**

Refer to Rule 4.3.7 which is applicable to both the ND and ND(ECP).

#### **5.3.6 Code of Conduct**

Refer to Rule 4.3.8 which is applicable to both the ND and ND(ECP).

#### **5.3.7 Attendance and Assessment**

Refer to Rule 4.3.9 which is applicable to both the ND and ND(ECP).

#### **5.3.8 Health and Safety**

Refer to Rule 4.3.10 which is applicable to both the ND and ND (ECP).

#### **5.3.9 Registration with SAAFoST and SACA**

Refer to Rule 4.3.11 which is applicable to both the ND and ND (ECP).

## 6. DIPLOMA IN CONSUMER SCIENCES IN FOOD AND NUTRITION (DICSFI)

### Purpose of Qualification

### Graduates of the Diploma in Consumer Sciences in Food and Nutrition

will be competent in the application of scientific based food and nutrition knowledge and culinary skills in a range of work activities. These include fresh product and recipe development; food retail; food production and foodservice; and nutrition advising; with the aim of improving consumer well-being. This qualification is semesterised and offered through a three-year programme.

### 6.1 PROGRAMME STRUCTURE (3 YEAR) DICSFI

Code	Modules	Study Level	C /E	Assessment Method	HESQF level	Module Credits	Prerequisite Modules
NUTI 101	Nutrition IA	1a	C	Ex	5	8	-
FPSO 101	Food Production & Service Operations IA	1a	C	CA	5	8	-
FSCP 101	Food: Science and Practice IA	1a	C	Ex	5	16	-
FOCO 101	Food Communication I	1a	C	CA	5	8	-
CSTN 101	Cornerstone 101	1a	C	CA	5	12	-
ICTL 101	Institutional General Education: Information and Communication Technology Literacy and Skills	1a	C	CA	5	8	-
NUTI 102	Nutrition IB	1b	C	Ex	5	8	-
FPSO 102	Food Production & Service Operations IB	1b	C	CA	5	8	-
FSCP 102	Food: Science and Practice IB	1b	C	Ex	5	20	-
APSC 101	Applied Sciences I	1b	C	Ex	5	8	-
COBE 101	Consumer Behaviour I	1b	C	Ex	5	8	-
ASWL 101	Faculty General Education: ; Applied Science and Wellness	1b	E	CA	5	12	-
FSCP 201	Food: Science and Practice II A	2a	C	Ex	6	16	Food: Science and Practice IA and IB
NUTI 201	Nutrition II A	2a	C	Ex	6	8	Nutrition IA and IB
FPSO 201	Food Production & Service Operations IIA	2a	C	CA	6	16	Food Production and Service Operations I A and I B
FOMI 101	Food Microbiology I	2a	C	Ex	5	8	-
RQTH 101	Institutional General Education: Student to select one module Elective 1: Reflections on Quantitative Thinking Elective 2: Values in the Workplace	2a	E	CA	5	8	-
VWKP 101							



LDSH 101	Elective 3: Leadership						
IASC 101	Faculty General Education: : Introduction to Applied Sciences	2a	E	CA	5	12	-
FSCP 202	Food: Science and Practice IIB	2b	C	Ex	6	20	Food: Science and Practice IA and IB
NUTI 202	Nutrition IIB	2b	C	Ex	6	12	Nutrition IA and IB
FPSO 202	Food Production & Service Operations IIB	2b	C	CA	6	16	Food Production and Service Operations I A and IB
	Food Retail Operation I	2b	C	CA	5	8	-
FQUA 101	Food Quality Assurance I	2b	C	Ex	6	8	-
FSCP 301	Food: Science and Practice IIIA	3a	C	CA	6	24	Food: Science and Practice II A Food: Science and Practice II B
NUTI 301	Nutrition IIIA	3a	C	CA	6	12	Nutrition IIA and IIB
FPSO 301	Food Production & Service Operations IIIA	3a	C	CA	6	16	Food Production and Service Operations IIA and IIB
WWRK 101	Institutional General Education Elective III – WORLD OF WORK	3a	C	CA	5	8	-
RASS101 ASSD101 ASCE101	Faculty General Education: Student to select one Elective 1: Role of Applied Science in Society Elective 2: Applied Science for Sustainable Development Elective 3: Community Development and Engagement	3a	E	CA	6	12	-
FSCP 302	Food: Science and Practice IIIB	3b	C	CA	6	16	Food: Science and Practice II A Food: Science and Practice II B
NUTI 302	Nutrition IIIB	3b	C	CA	6	8	Nutrition IIA & IIB
FPSO 302	Food Production & Service Operations IIIB	3b	C	CA	6	8	Food Production and Service Operations IIA and IIB
FANP 202	Food and Nutrition Practice II	3b	C	CA	6	8	-

FAPR 202	Food and Nutrition Project II (Worksite-Based Project)	3b	C	CA	6	8	Food: Science and Practice IIA and IIB, Nutrition IIA and IIB Food Production and Service Operations IIA and IIB
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## 6.2 PROGRAMME INFORMATION

Refer to 4.2 Programme Information under the ND: Consumer Science: Food and Nutrition.

## 6.3 PROGRAMME RULES

### 6.3.1 Minimum Admission Requirements

In addition to DUT Rule G7, the following minimum entrance requirements and the selection criteria outlined in 6.3.2 apply for applicants with reference to:-

#### 6.3.1.1 Academic Achievement

In line with the above, applicants' school leaving academic achievement must comply with one of the following:-

Compulsory Modules	NSC	SC		NCV
	Rating	HG	SG	
English (home) OR English (1 <sup>st</sup> add).	3 4	E	C	60%
Maths OR Maths Literacy	3 4	E	C	60%
Accounting OR Business Studies OR Consumer Studies OR Physical Science OR Life Sciences/Biology	3	-	-	-
Plus three other 20 credit modules	3	-	-	-
Science or Biology	-	E	C	-
For the NCV: any three of the following modules:- food preparation, hospitality services, hospitality generics, marketing, management and hospitality, finance economics and accounting, process plant operations, physical science, process technology, process chemistry	-	-	-	60%

#### 6.3.1.2 Admission Requirements based on Work Experience, Age and Maturity; and Recognition of Prior Learning

The DUT Rules G7(3), and G7(8) respectively, will apply.  
(Approved by Senate Rules Comm wef 2014/10)

#### 6.3.1.3 Admission of International Students

The DUT's Admissions Policy for International Students and DUT Rules G4 and G7(5) will apply. (Approved by Senate Rules Comm wef 2014/10)

International students must meet the equivalent programme minimum entrance requirements as stated above. *(Approved by Senate Rules Comm wef 2014/10)*

#### **6.3.1.4 Admission of Students from Other Institutions**

In addition to the relevant DUT Rules a transferring student will only be accepted if there are places available and the student has met the applicable entrance requirements of the university. *(Approved by Senate Rules Comm wef 2014/10)*

#### **6.3.1.5 Additional Requirements for All Students**

In addition to the above, every registered student will be required to have:

- a) A Hepatitis A vaccination.
- b) A prescribed chef's uniform and equipment kit which is for the student's account.

### **6.3.2 Selection Criteria**

In addition to the Minimum Admission Requirements), the following selection process will determine acceptance into the programme:

All applicants must apply through the Central Applications Office (CAO).

Initial shortlisting for selection is based on the applicant's academic performance in Grade 12. (Grade 11 or Grade 12 trial marks will be used for current matriculants) Initial selection will be based on the ranking of applicants who meet the minimum requirements.

Provisional acceptance is given to selected applicants awaiting the outcomes of the National Senior Certificate\* (NSC) results. Where the final NSC\* results do not meet the minimum entrance requirements for the programme, the provisional acceptance will be withdrawn.

Final selection for placement will be based on both the results of the above ranking process, as well as available places (refer to DUT Rule G5) *(Approved by Senate Rules Comm wef 2020/11)*

### **6.3.3 Pass requirements**

In addition to the DUT Rules G12, G14 and G15, the following programme rules apply:

6.3.3.1 In addition to the general requirements for a year/semester mark as stipulated in Rule G14 and G15, the definition of the term "satisfactory attendance" shall include:

6.3.3.1.1 90% attendance of all practical classes in a subject. Exceptional circumstances may be reviewed by the Head of Department.

6.3.3.1.2 Attendance is compulsory at all functions, guest speaker sessions, organized short courses, outings and educational tours arranged by the department. (Any additional cost involved will be the responsibility of the student.)

6.3.3.1.3 Students will be required to arrive timeously at lectures and practicals. Students who arrive late will only be admitted at the lecturer's discretion on presentation of a valid reason.

6.3.3.1.4 The department reserves the right to verify any medical certificate.

6.3.3.2 Students will be required to participate in departmental promotions and functions outside of normal tuition times, which may take place off campus.

6.3.3.3 Laboratory rules shall apply to all students. Refer to relevant study guides.

6.3.3.4 For a continuous assessment subject: The final mark for the subject comprises a mark obtained from work completed during the year/semester. There is no examination for the subject. A portion of this work is moderated and all is work retained by the department for a period of three (3) years as proof of performance. Details are in each subject study guide. If the final mark is a fail (less than 50%) the student will be required to re-register for and repeat that subject.

6.3.3.5 All doctor's, driver's license appointments etc., made for students must not clash with practicals and assessment dates.

### **6.3.4 Progression Rules**

#### **6.3.4.1 Promotion from Year 1 to Year 2:**

The DUT Rule G16 applies

#### **6.3.4.2 Promotion from Year 2 to Year 3:**

The DUT Rule G16 applies

### **6.3.5 Exclusion Rules**

In addition to DUT Rule G17, a student in the first year who fails 50% plus one of the modules, with an average of less than 40% in each module is not permitted to reregister in this programme. Deregistration from any modules is subject to the provision of DUT Rule G6A.

### **6.3.6 Interruption of Studies**

Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration.

### **6.3.7 Work Integrated Learning (WIL) Rules**

In addition to Rule G28, and the requirements as detailed in the relevant Study Guides, the following programme rules apply.

WIL can only be undertaken if the student has passed the first and second year major subjects (Food and Food Science I, II, Food Communication I, II and Nutrition I and II).

6.3.7.1 A student will undergo 3 months of work integrated learning (WIL) as part of the third year of study.

6.3.7.2 The department undertakes to assist the student in obtaining suitable WIL placement.

6.3.7.3 A student who finds their own placement must ensure the workplace is approved by the department.

*(Approved by Senate Rules Comm wef 2014/10)*

### **6.3.8 Code of Conduct**

In addition to the Student Code of Conduct in the DUT General Handbook for Students, and the relevant requirements as stated in the appropriate Study Guides, the following rules apply:

#### **6.3.8.1 Conduct of Students in Practical Facilities**

Strict adherence to instructions issued by technical, supervisory or academic staff is

required due to the need to ensure effective and safe practice in these facilities. Misconduct or disregard for instructions will be referred to the relevant disciplinary procedure.

*(Approved by Senate Rules Comm wef 2014/10)*

### **6.3.8.2 Uniforms**

Students must adhere to instructions issued by technical, supervisory or academic staff regarding the specific dress code required during practicals. Non-compliance will result in the student being denied access to the venue. *(Approved by Senate Rules Comm wef 2014/10)*

### **6.3.9 Attendance and Assessment**

6.3.9.1 A student who, for any valid reason (Refer to Programme Rule 4.3.9.2 below), is absent from a particular practical or test, must provide written proof of the reason for the absence to the lecturer concerned, within five (5) working days of returning to the institution in order to be considered for a special assessment.

*(Approved by Senate Rules Comm wef 2014/10)*

6.3.9.2 The DUT Rule G13 (3) (a) which refers to special examinations also refers to special assessments set within departments for students who have missed coursework assessments. In these cases the department will determine the validity of the student's reason for not taking the assessment, and the nature of the special assessment.

*(Approved by Senate Rules Comm wef 2014/10)*

### **6.3.10 Health and Safety**

Students must adhere to all Health and Safety regulations both while at DUT and in WIL placements. Failure to do so will be treated as a breach of discipline. Refer to the appropriate Health and Safety policies.

*(Approved by Senate Rules Comm wef 2014/10)*

### **6.3.11 Registration with SAAFoST and SACA**

Students will be registered as a student member with the South African Association of Food Science and Technology (SAAFoST) and with the South African Chefs Association (SACA). The SAAFoST registration is for the duration of the first qualification. The SACA membership is for two years, voluntary professional membership with SACA is encouraged in the third year of study.

## **7. BACHELOR OF TECHNOLOGY: CONSUMER SCIENCE: FOOD AND NUTRITION (BTCSEI) (to be phased out 2020)**

### **Purpose of Qualification**

A qualified student will be able to perform as a food and nutrition researcher and developer, manage a food and nutrition operation or market food and nutrition products in the retail and production industries and in the community. These activities should maximize the quality of fresh convenience food products and enhance the quality of life of the customer through efficient marketing.

## 7.1 PROGRAMME STRUCTURE

Subject Code	Subject Description	Period of Study	Assessment Method	NATED Credits
MKTF101	Marketing I	Annual	3 Hr Theory Exam	0.160
RMDG201	Research Methodology : Natural Sciences	Annual	CA	0.180
IPSF101	Industrial Psychology I	Annual	3 Hr Theory Exam	0.160
NUTR402	Nutrition 4	Annual	CA	0.200
FFSC401	Food and Food Science 4	Annual	CA	0.300

**KEY:** Assessment: EX= Examination, CA = Continuous Assessment is no Final examination for these subjects/modules.

## 7.2 PROGRAMME INFORMATION

B Tech students can register full-time and complete the subjects in one year, or part time and complete their studies over two years. The appropriate sequence of registration for the subjects is available from the department.

## 7.3 PROGRAMME RULES

### 7.3.1 Minimum Admission Requirements

In addition to Rule G7, and G23A (a) (1), an applicant must have one of the following:

7.3.1.1 ND: Consumer Science: Food and Nutrition; ND: Food and Beverage Management; ND: Food Service Management; or equivalent; and:

7.3.1.2 a minimum aggregate of 60% across final semester subjects -or

7.3.1.3 relevant post-diploma industrial experience

Students are required to formally apply through the department, should they wish to be considered for the BTech Programme.

### 7.3.2 Selection Criteria

Entry into the BTech programme is not automatic. A limited number of places are available to students and selection will be on the basis of academic performance. Working experience will be an added advantage for those students not applying directly from the NDip.

### 7.3.3 Pass Requirements

The DUT Rules G12, G14 and G15 apply.

### 7.3.4 Progression Rules

The DUT Rule G16 applies.

### 7.3.5 Exclusion Rules

The DUT Rules G17 and G23A (a) (4) apply.

### 7.3.6 Interruption of Studies

In accordance with Rule G23A (a), the minimum duration for this programme will be 1 year of registered study and the maximum duration will be 2 years of registered study. Should a student interrupt their studies by more than 3 years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with

registration.

## 8. ADVANCED DIPLOMA IN CONSUMER SCIENCES IN FOOD AND NUTRITION (ADCSFI)

### Purpose of the Qualification

The qualification aims at promoting consumer well-being by focusing on the application of scientific theoretical and practical food and nutrition knowledge in convenience food development, by developing food and nutrition training and research capacities. This programme presents an opportunity to specialize in either food safety and quality, or food marketing and communication.

### 8.1 PROGRAMME STRUCTURE

Subject Code	Name of Module	Study Level	C/E*	Assessment Method	Module Credits	HEMIS credits	NQF Level
STST 401	Statistics	Ia	C	CA	16	0.129	7
NUTR401	Nutrition	Ia	C	EX	28	0.226	7
FMCO 401 FSAQ 401	Student to select one Elective 1: Food Marketing and Communication Elective 2: Food Safety and Quality	Ia	E	EX	24	0.193	7
FOFS 401	Food and Food Science	Ib	C	CA	32	0.259	7
FNTR 101	Food and Nutrition Training	Ib	C	EX	24	0.193	7

### 8.2 PROGRAMME RULES

#### 8.2.1 Admission Requirements

In addition to DUT Rules G7 and G21C, applicants must be in possession of one of the following minimum admission requirement for entry into this programme:

- Diploma in Consumer Sciences in Food and Nutrition;
- National Diploma in Consumer Science: Food and Nutrition
- Or a recognised equivalent qualification

*(Approved by Senate Rules Comm wef 2019/9)*

#### 8.2.2 Selection Criteria

In addition to the Admission Requirements, the following selection process will be applied for placement in the programme:

Selection into the qualification is based on the number of places in the programme. Applicants will be ranked on academic performance.

Applicants apply directly to the Department of Food and Nutrition Consumer Sciences. The closing date for application is 30 October each year.

(Approved by Senate Rules Comm wef 2019/9)

### 8.2.3 Duration of the programme

In accordance with DUT Rule G21C (2) and G21C (3) the duration of the programme is as follows: -

- The minimum duration is one year of full-time registered study
- Or two years of part-time registered study

### 8.2.4 Pass Requirements

The DUT Rules G12, G14 and G15 apply

### 8.2.5 Progression Rules

The DUT Rule G16 applies

### 8.2.6 Exclusion Rules

The DUT Rules G17 and G21C (3) apply.

### 8.2.7 Interruption of studies

The DUT Rule G6B pertaining to interruption of studies will apply

## 9. MASTER OF APPLIED SCIENCE IN FOOD AND NUTRITION (MSFNT I)

### 9.1 PROGRAMME STRUCTURE

Subject	Subject Description	Period of	Assessment	NATED
RPFN 511	Research Dissertation Full Registration	Annual	Research Project	1.000
RPFN521	Research Dissertation Successive Registration			

### 9.2 PROGRAMME INFORMATION

A qualified student will be able to conduct research in the food and nutrition consumer science fields to enhance the quality of life of the consumer.

### 9.3 PROGRAMME RULES

#### 9.3.1 Minimum Admission Requirements

In addition to Rule G7 and G24, an applicant must have one of the following:

9.3.1.1 BT: Consumer Science: Food and Nutrition: HDE (4 year Higher Diploma in Education): Home Economics (UN) / BT: Food Service Management; or equivalent and

9.3.1.2 a minimum aggregate of 60% across final level subjects- or

9.3.1.3 Relevant industrial experience.

#### 9.3.2 Selection Criteria

In addition to Rule G5, selection will be on the basis of academic performance as determined by a ranking system. Working experience will be an added advantage for those students not applying directly from the BTech.

(Approved by Senate Rules Comm wef 2014/10)

#### 9.3.3 Pass Requirements

Students must have their research proposal and ethics approved, and their field work completed within the first year of registration. Failure to comply will result in exclusion from the programme unless there are extenuating circumstances.

*(Approved by Senate Rules Comm wef 2014/10)*

### 9.3.4 Postgraduate Publications Requirements for Graduation

Master students are required to have:-

ONE publication submitted to a DHET approved journal; Prior to completion of the degree.

*(Approved by Senate Rules Comm wef 2019/11)*

## 10 DOCTOR OF PHILOSOPHY IN FOOD AND NUTRITION (DPFNT I)

### 10.1 PROGRAMME STRUCTURE

Subject	Subject	Period of	Assessment	NATED
RPFN611	Research Thesis Full Registration	Annual	Research Project	1.000
RPFN 621	Research Thesis Full Registration			
RPFN 631	Research Thesis Full Registration			

### 10.2 PROGRAMME INFORMATION

A qualified student will be able to apply advanced knowledge, skills, principles and methods to conduct independent, original research and to render a specialized professional service in Food and Nutrition, according to the needs of the University, the country and in compliance with international trends and standards to:

- respond to the needs of the community
- respond to the needs of business and industry
- respond to the needs of consumers

### 10.3 PROGRAMME RULES

#### 10.3.1 Minimum Admission Requirements

In addition to Rule G7 and G25 an applicant must be in possession of an MTech: Consumer Science: Food and Nutrition or equivalent.

*(Approved by Senate Rules Comm wef 2014/10)*

#### 10.3.2 Selection Criteria

In accordance with Rule G5, there is a limitation on the number of students that can be accepted in this programme.

*(Approved by Senate Rules Comm wef 2014/10)*

#### 10.3.3 Postgraduate Publications Requirements for Graduation

Doctoral students are required to have:-

- ONE publication accepted by a DHET approved journal and
- ONE publication submitted to a DHET approved journal; prior to completion of the degree

## 11 SERVICED MODULES

The servicing department's rules apply to all serviced subjects. The following subjects are serviced from this department:

Serviced Programme	Subject	Module Code
Diploma in Somatology (DISOMI)	Nutrition 1	NTRT101
	Nutrition 2	NTRT201
National Diploma: Somatology (NDSOM) (Phasing out)	Nutrition 2	NTR1201
	Nutrition 3	NTR1301

The following modules are serviced externally to this department:

Servicing Department	Serviced modules	Module Code
Chemistry	Applied Sciences	APSC 101
Biotechnology and Food Technology	Food Microbiology I	FOMI 101
Information Technology	Information and Communication technology Literacy and Skills	ICTL 101
Language & Communication	Food Communication I	FOCO 101
General Education Unit	Cornerstone	CSTN 101
Sport Studies	Applied Science and Wellness	ASWL 101

## 12 SHORT COURSES

This programme offers the following short courses:

- Cooking for Couples
- Quick Nutritious Suppers
- Entrepreneurial Cake Baking & Decoration

## 13 MODULE CONTENT

**NB.** Students are to read this section in conjunction with the relevant study guides.

**NB.** In view of the fact that Instructional Programmes and syllabi are constantly under review the programmes and syllabi appearing in this book are subject to alteration without prior notice.

### 13.1 NATIONAL DIPLOMA: CONSUMER SCIENCE: FOOD AND NUTRITION

The following must be read in conjunction with the relevant Study Guides.

#### BEHAVIOURAL STUDIES I (BSFS101)

##### ASSESSMENT

**Course mark:** Theory tests: 24%  
Assignments: 16%

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40%) + Examination mark (60%)

**SYLLABUS:** Food and psychology and sociology and anthropology, group dynamics, motivation, stress, mental health, eating disorders,

## **BUSINESS MANAGEMENT I (BSMG101) ASSESSMENT**

<b>Course mark:</b>	Theory tests: 24%
	Assignments: 16%
<b>Examination:</b>	1 X 3 hour paper
<b>Final Mark:</b>	Course mark (40%) + Examination mark (60%)
<b>SYLLABUS:</b>	Introduction to management. Planning, organizing, leading, control. Business management. Human resource management. Entrepreneurship: starting your own food/beverage business.

## **CONSUMER BEHAVIOUR I (CNSB101) ASSESSMENT**

<b>Course mark:</b>	Theory tests: 24%
	Oral Presentation: 4%
	Assignments: 12%
<b>Examination:</b>	1 X 3 hour paper
<b>Final Mark:</b>	Course mark (40%) + Examination mark (60%)
<b>SYLLABUS:</b>	Introduction to Consumer Behaviour, Social responsibility, Common and Statute Law. Advertising Standards Authority and other non-government bodies. Consumer Protection Act. Market segmentation. Consumer decision making. Influences on consumer behaviour: motivation, personality, perception, learning, attitudes, communication, reference groups, social class, culture and subculture.

## **COMPUTER SKILLS I (CMPT101) ASSESSMENT**

<b>Continuous assessment:</b>	Theory tests: 20%
	Practical tests: 70%
	Assignments: 10%
<b>SYLLABUS:</b>	Introductory theory on information and communications technology. MS Word, MS Excel, MS PowerPoint, MS Publisher. Introduction to Internet Search Engines and Email.

## **FOOD COMMUNICATION I (FCOM101) ASSESSMENT**

<b>Continuous assessment:</b>	Theory tests: 75%
	Assignments: 25%
<b>SYLLABUS:</b>	Communication Theory: types of communication. Breakdown in barriers. Demographics. Nonverbal communication. Intercultural communication. Report writing. Memorandum writing. Business letter. Meetings. Oral presentations.

## **FOOD COMMUNICATION II (FCOM201) ASSESSMENT**

**Course mark:**

Theory tests:	16%
Assignments:	8%
Practicals:	16%

**Examination:** I X 3 hour paper  
**Final Mark:** Course mark (40%) + Examination mark (60%)  
**SYLLABUS:** Introduction to Marketing. South African food products & branding. Food promotional environment. Product planning and development. Product mix strategies. Brand and packaging, price. Retailing. Tools of promotion and advertising. Food styling and photography. Product promotion and demonstration and presentation.

### **FOOD COMMUNICATION III (FCOM301)**

#### **ASSESSMENT**

**Continuous assessment:** Theory tests: 30%  
 Final Project and Assignments: 50%  
 Portfolio: 10%  
 Practicals: 10%

**SYLLABUS:** Survey and research report, principles of communication, planning advertising, creating an advert, copywriting, print, electronic production, sponsorship, sales promotions strategy, food photography, sales promotion, PR, Customer relations, , public relations strategies, copy, leaflet/advertisement; graphic design, digital marketing, food styling portfolio.

### **FOOD AND FOOD SCIENCE I (FFSC101)**

#### **ASSESSMENT**

**Course mark:** Theory tests: 20%  
 Assignments: 20%

**Examination:** I X 3 hour paper + 3 hour practical exam  
**Final Mark:** Course mark (40%) + Examination mark (30 % + 30%)

**SYLLABUS:** The theory and practical components are interlinked. Cereals, Flours and starches; flour mixtures; dairy products; eggs; fish; fruit; vegetables and legumes. Sources, choice, storage, composition, structure, classic proportions, preparation and cooking method identified and applied. Entrepreneurial food activity.

### **FOOD AND FOOD SCIENCE II**

#### **(FFSC201) ASSESSMENT**

**Course mark:** Theory tests: 24%  
 Assignments and practicals: 16%

**Examination:** I X 3-hour paper + 3 hour practical exam  
**Final Mark:** Course mark (40%) + Examination mark (Paper 1:30 % + Paper 2: 30%)

**SYLLABUS:** The theory and practical components are interlinked. Food spoilage and preservation: food safety and sanitation, microbial activity, preservation principles and techniques. Stocks and sauces; poultry; meat; gelatine; fats and oils; sugars; teas and coffees. Sources, choice, storage, composition, structure, classic proportions, preparation and cooking methods identified and applied. Entrepreneurial food activity.

## **FOOD AND FOOD SCIENCE III (FFSC301)**

<b>Continuous assessment:</b>	Theory tests:	30%
	Assignments:	30%
	Project:	20%
	Practical Work:	20%

**SYLLABUS:** The theory and practical components are interlinked. Food trends. Recipe development. Product development, meal and menu preparation and execution incorporating ethnic and cultural cuisine.

## **FOOD PRACTICE II (FDPR202) (Work Integrated Learning (WIL)) ASSESSMENT**

<b>Continuous assessment:</b>	Work preparedness	25%
	Monthly evaluation by company representative	20%
	Worksite Project	35%
	Oral presentation	10%
	Service learning	10%

**SYLLABUS:** Outcomes and benefits of WIL, CV writing, application process, placements, interview skills, worksite project and oral presentation, secrets of success, the rules of work, contract and conditions of placement, assessment during WIL, work etiquette and ethics, Service learning training.

**INDUSTRY PLACEMENT:** 3 months / 12 weeks in industry

## **FOOD PRODUCTION MANAGEMENT I (FDPMI01) ASSESSMENT**

<b>Continuous assessment:</b>	Theory tests:	30%
	Practicals:	50%
	Assignments:	20%

**SYLLABUS:** The theory and practical components are interlinked. Large scale equipment, food health and safety procedures, questionnaire for market needs, purchasing orders and methods, large scale receiving and storage procedures, cost price and selling price calculations, standardization of recipes. Menu planning, writing and menu preparation, venue set up, food and beverage service, wine theory and tasting, customer excellence, convenience foods, functions, productivity.

## **FOOD MICROBIOLOGY I (FDMI01) ASSESSMENT**

<b>Course mark:</b>	Theory tests:	24%
	Assignment:	8%
	Presentation:	8%

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40%) + Examination mark (60%)

**SYLLABUS:** Introduction to microbiology. Growth and destruction of Microorganisms. Food poisoning and food infection. Hygiene and disinfection. Principles of microbial spoilage and food preservation. Pest infestations and their control. Fermentations.



Control of food quality. Legislation.

## **CONSUMER SCIENCE PRACTICE I (CSCP101)**

### **ASSESSMENT**

**Course mark:** Food and Food Beverage component: 15%  
Consumer Behaviour component: 10%  
English Communications component: 25%  
Information Literature component: 10%  
Academic Literacy component: 20%  
Academic Portfolio 20%

**SYLLABUS:** Computer skills, Consumer Behaviour, English, Academic Literacy and Information Literacy.

## **CONSUMER SCIENCE PRACTICE II (CSCP201)**

### **ASSESSMENT**

**Course mark:** Food and Food Science component: 25%  
Nutrition component: 25%  
Chemistry component: 10%  
Physiology component: 10%  
Microbiology component: 10%  
Academic Literacy component: 20%

**SYLLABUS:** Introductory food and food science, nutrition, chemistry, physiology, microbiology and academic literacy.

## **NUTRITION I (NUTRI01)**

### **ASSESSMENT**

**Course mark:** Theory tests: 24%  
Assignments: 16%

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40%) + Examination mark (60%)

**SYLLABUS:** Introduction to nutrition. Meal planning. Carbohydrates, Sugars and artificial sweeteners. Non starch polysaccharides Proteins, Lipids, Vitamins and Minerals. Alcohol. Energy metabolism.

## **NUTRITION II (NUTR202)**

### **ASSESSMENT**

**Course mark:** Theory tests: 24%  
Assignments: 16%

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40%) + Examination mark (60%)

**SYLLABUS:** Nutrition throughout the life cycle. Nutrition related health problems. Weight Management

## **NUTRITION III (NRTN301)**

### **ASSESSMENT**

**Continuous assessment:** Theory tests: 60%  
Assignments: 40%

**SYLLABUS:** Nutrition related health issues currently relevant to consumer education in SA. A rights based approach to community nutrition. Assessment of nutritional status. Nutrition reporting and nutrition misinformation. Nutrition education in order to



address Diabetes mellitus, obesity, constipation, high cholesterol, Hypertension and HIV/Aids. Nutrition and emotional stress. Nutrition and the food industry, food labelling, food additives, economic food purchases.

### **PHYSICAL SCIENCE I (PSCN101)**

#### **ASSESSMENT**

**Course mark:** Theory tests: 40%  
**Examination:** 1 X 2 hour paper  
**Final Mark:** Course mark (40%) + Examination mark (60%)

#### **SYLLABUS:**

The principles of general chemistry applied to food: Periodic Table, simple chemical equations, oxidation and reduction, acids and bases, detergents and water.  
 The Principles of organic chemistry: Hydrocarbons, alcohol and phenols, aldehydes and ketones, organic acids, esters, aromatic compounds, carbohydrates, proteins, fats, amines and amides.  
 The Principles of Physics related to food: Use of pressure cooker and microwave ovens, effect of temperature and atmospheric pressure, Measurements.

### **PHYSIOLOGY: FOOD I (PHFD101)**

#### **ASSESSMENT**

**Course mark:** Theory tests: 40%  
**Examination:** 1 X 3 hour paper  
**Final Mark:** Course mark (40%) + Examination mark (60%)

#### **SYLLABUS:**

Introduction to the human body. Cells and tissues. Blood and cardio vascular system. The lymphatic system. The nervous system. The endocrine system. The digestive system. The respiratory system. The urinary system. The reproductive system.

## **13.2 DIPLOMA IN CONSUMER SCIENCES IN FOOD AND NUTRITION DICSFI**

### **NUTRITION 1A (NUTI 101)**

#### **ASSESSMENT:**

**Examination:** 1 x 3 hour paper  
**Course mark:** Tests 60 %  
 Assignment 40 %

#### **SYLLABUS:**

Introduction to nutrition; South African Food Based Dietary Guidelines; Assessment of nutritional status using anthropometric measurements; Design meal and menus with reference to standards and recommendations for specific nutrients; Energy metabolism; The physiological functions of the human body, focusing on the circulatory, endocrine, digestive and cardiovascular systems

## **FOOD PRODUCTION AND SERVICE OPERATIONS IA (FPSO 101)**

### **ASSESSMENT:**

**Continuous assessment:** Tests 60%  
Assignment 40%  
Students, who fail, (i.e. who achieve a final mark of less than 50%) can be re-assessed by:  
A maximum of only 50% can be obtained on re-assessment  
All assessments and moderation practices will be aligned to DUT assessment policy.

### **SYLLABUS:**

The food service Industry; Types of food service operations and facilities; Food flow through the food service operation; Role of the food manager, production and service personnel; Cleaning, sanitation and safety (Occupational health and safety act)

## **FOOD: SCIENCE AND PRACTICE IA (FSCP 101)**

### **ASSESSMENT:**

**Examination:** 1 x 3 hour paper  
**Course mark:** 25%Test + 25%Assignment + 25% Weekly practical mark + 25% practical test

### **SYLLABUS:**

Theory: Introduction to food preparation; Introduction to food safety and hygiene; Characteristics, structure, composition, properties (incl health properties; processing; quality, selection, storage, effect of heat and added substances; identification and solving of problems related to the following foods: vegetables, fruit, legumes, eggs, milk and milk products; Types and culinary application of herbs, spices and seasoning  
Practical: Application of weights, measures, temperature and pressure; Recipe structure and interpretation; culinary skills applicable to the plant origin foods listed above, including preparation and presentation; Interpretation and presentation of an industry generated brief.

## **FOOD COMMUNICATION I (FOCO 101)**

### **ASSESSMENT:**

**Continuous assessment:** Tests 66,6%  
Oral Presentation 33,4%

### **SYLLABUS:**

Process of Communication in the Workplace; Small group Communication; Intercultural Communication; Report; Writing; Oral Communication; Written Communication: Correspondence and Reports; 10 - 15% Flexible Content

## **CORNERSTONE (CSTN 101)**

### **ASSESSMENT:**

**Continuous assessment:** A weekly blog written by each student 20%  
Tutorial attendance (forfeited if student attends less than 80% of tutorials) 10%  
Visual artefact 15%  
Written report 30%  
Oral presentation 15%  
Peer assessment. 10%

**SYLLABUS:** The module content will be developed around the concept of journeys, across time, across space, and across human relationships; the first use of the concept will take the journey of the uMngeni River (which is close to all DUT campuses) as a metaphor. The module will bring different disciplinary perspectives to this content.

## **INFORMATION AND COMPUTER TECHNOLOGY LITERACY SKILLS (ICTL 101)**

### **ASSESSMENT:**

**Continuous assessment:** Students will regularly be subjected to short quizzes (written and equally weighted) in their usual classes as set up by their module facilitator, and these quizzes will count for half of the total mark. The other half will come from the continuous assessment of a capstone project (written report and oral presentation) undertaken by students in groups of five to seven

**SYLLABUS:** Basics of ICTs Hardware, Software, and Users; Internet Search; Word Processing; Spreadsheets; Presentations; Referencing; Security, Legal, Ethical, and Societal Issues; Economics of ICTs

## **NUTRITION IB (NUTI 102)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper	
<b>Course mark:</b>	Tests	60 %
	Assignment	40 %

**SYLLABUS:** Carbohydrates, Sugars and artificial sweeteners, non-starch polysaccharides; Proteins, Vegetarianism; Lipids; Vitamins and Minerals; Alcohol

## **FOOD PRODUCTION AND SERVICE OPERATIONS IB (FPSO 102)**

### **ASSESSMENT:**

**Continuous assessment:** Tests 60%  
Assignment 40%  
Students, who fail, (i.e. who achieve a final mark of less than 50%) can be re-assessed by:  
A maximum of only 50% can be obtained on re-assessment  
All assessments and moderation practices will be aligned to DUT assessment policy.

**SYLLABUS:** Theory: Menu planning and writing; Food and Beverage costing and pricing strategies; Food and beverage styles of service; Food and beverage etiquette; Event planning  
Practical: Demonstrate menu planning and costing; Demonstrate food and beverage styles of service; Table setting; Coffee and wine service; Serving of customers

## **FOOD: SCIENCE AND PRACTICE IB (FSCP 102)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper
<b>Course mark:</b>	25%Test + 25%Assignment + 25% Weekly practical mark + 25%



**SYLLABUS:**

practical test

Theory: Characteristics, structure, composition, properties, processing, quality, selection, storage, effect of heat and added substances, identification and solving of problems related to the following foods: stocks and sauces, soups, meat, poultry, fish and shellfish, hydrocolloids; Beverages- teas, coffees and tisanes  
Practical: Culinary skills applicable to the animal origin foods listed above, including preparation and presentation; Entrepreneurial food activity.

**APPLIED SCIENCES I (APSC 101)****ASSESSMENT:**

**Examination:**

1 x 3 hour paper

**Course mark:**

Theory	60%
Practicals	40%

Comprehensive Report (40%) + 1 Theory of Prac Test (60%)

**SYLLABUS:**

Theory of the principles of general chemistry are explained, interpreted and applied in the following areas: Elements, Periodic Table, Atoms, Molecules, Compounds, Mixtures and Sub-Atomic Particles; Simple chemical formulae, Chemical equations and Valency and balancing chemical equations; Composition of air. Oxidation and Reduction with particular reference to food products and preparation; Acids and Bases, Salt formation and pH values of food products and ingredients; Carbon, Carbon monoxide, Carbon dioxide and Carbonates used in food industry; Water (hard and soft), Solutions, Emulsions, Suspensions, Colloids and Gels used in food industry. Practicals are conducted involving Acids and Bases, Salt formation and pH values of food products and ingredients and properties of solutions and emulsions used in the food industry.

Fundamentals of organic chemistry are explained, interpreted and applied in the following areas: Hydrocarbons (Saturated and unsaturated) uses in food industry; Alcohols and phenols: Properties and uses in food industry; Aldehydes and ketones: Uses as artificial flavourants; Organic acids: Properties and uses in food industry; Esters (synthetic flavourants, and preservatives): occurrences and uses in food industry; Aromatic compounds: Origin and structural formulae: Properties and uses in food industry

**FOOD: SCIENCE AND PRACTICE I IA (FSCP 201)****ASSESSMENT:**

**Examination:**

1 x 3 hour paper

**Course mark:**

Test	25%
Practical's, average	25%
Practical test	25%
Assignment	25%

**SYLLABUS:**

Theory: Food processing: preservation (*principles, methods, guidelines, faults and troubleshooting*); additives; modified starches; packaging-controlled atmospheric packaging; modified atmospheric packaging; Lipid chemistry and substitutes; Sugar chemistry and substitutes;



Food Legislation (*Food law and regulation in the South African and global context, gaps in research*).

Practical:

Culinary skills and experimentation of selected foods.

## **NUTRITION IIA (NUTI 201)**

### **ASSESSMENT:**

**Examination:**

1 x 3 hour paper

**Course mark:**

Tests

60%

Assignments/Presentation

40%

### **SYLLABUS:**

Nutrition requirements for the maintenance and promotion of wellness throughout pregnancy, lactation, infancy, toddlers and adolescents; Nutrition during pregnancy and lactation; Nutrition from infancy through to adolescents; Food allergies and intolerances.

## **FOOD PRODUCTION AND SERVICE OPERATIONS IIA (FPSO 201)**

### **ASSESSMENT:**

**Continuous assessment:** Theory tests 30%

Practical 50%

Practical assessment rubrics will be used to assess techniques, kitchen work and sensory quality of food items (formative assessment). (BoH)  
Practical assessment rubrics will be used to assess techniques, front of house work and sensory quality of beverage items (formative assessment). (FoH)

### **SYLLABUS:**

Theory: Food service facilities planning and design; The planning process; Space allowances and relationships of food production areas; Design factors and layout for food service work areas; Selection of large and small scale equipment; Types and features of food and beverage equipment; Maintenance and replacement of food service equipment; Food styling

Practical:

Back of House: Plan and implement effective production systems using large scale equipment; Select a range of menu items to suit a variety of occasions, budgets and market; Incorporate food trends to provide target market with a variety of innovative foods; Convert recipes from household to mass production quantities; Compile food purchasing orders; Cost recipes accurately using prescribed format; Produce a range of fresh cooked products; Minimise and manage food waste; Identify and correct common faults in a range of food products; Implement HACCP principles in a large scale food preparation facility; Maintain effective working relationships

Front of House: Plan and implement effective food service systems for a large scale food service facility; Select an appropriate range of service utensils and equipment for the service period; Prepare a range of service utensils for the service period; Use different strategies to create awareness of and promote the large scale facility; Demonstrate appropriate food and beverage service skills; Demonstrate effective and appropriate customer interaction during the service period; Produce a range of beverages according to guidelines; Implement

HACCP principles in a large scale food service facility; Cash up and closing procedures are implemented effectively

## **FOOD MICROBIOLOGY I (FOMI 101)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper	
<b>Course mark:</b>	Control Tests	60%
	Assignments / Practical Tests/Reports	20%
	Oral Presentation	20%

Practical assessment will be in the form of written practical reports and pre/post-practical tests

### **SYLLABUS:**

Introduction to structure and functions of food-related microorganisms; Growth and control of microorganisms; Food Poisoning and Infections; Hygiene and Disinfection; Principles of Microbial spoilage; Principles of food preservation; Pest infestations and their control; Food Fermentations

Key practicals will take place during practical sessions to demonstrate an understanding of microbiological quality and safety of foods

## **FOOD: SCIENCE AND PRACTICE I IB (FSCP 202)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper	
<b>Course mark:</b>	Test	25%
	Practical's, average	25%
	Practical test	25%
	Assignment	25%

### **SYLLABUS:**

Theory: Structure, composition, properties; standard proportions; quality; selection, storage, effect of heat/baking process, staling, identifying and solving problems related to the following foods: cereals, starches, baked products (all ingredients used in baking: flour and meal, sweeteners, fats and oil, raising agents, liquids, flavourings, pre-mixes) and confectionary

Practical: Culinary skills and experimentation of selected foods listed above; Students are required to apply practical knowledge accumulated in IA, II B and IIA to expand culinary skills and for experimental work in IIB; Entrepreneurial food activity

## **NUTRITION IIB (NUTI 202)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper	
<b>Course mark:</b>	Tests	60%
	Assignments/Presentation	40%

### **SYLLABUS:**

Nutrition requirements for the maintenance and promotion of wellness for adults and the elderly population; Nutrition for adults and the elderly population; Life expectancy, mortality rates and burden of disease of South African Adults.

## **FOOD PRODUCTION AND SERVICE OPERATIONS I IB (FPSO 202)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Theory tests	30%
	Practical	50%
	Assignment	20%

### **SYLLABUS:**

Theory: Production processes in a food service operation; Purchasing and selection of suppliers; Receiving procedures; storage and inventory control in a food service facility; Production planning and forecasting

Practical:

Back of House: Plan and implement effective production systems using large scale equipment; Select a range of menu items to suit a variety of occasions, budgets and market; Incorporate food trends to provide target market with a variety of innovative foods; Convert recipes from household to mass production quantities; Compile food purchasing orders; Cost recipes accurately using prescribed format; Produce a range of fresh cooked products; Minimise and manage food waste; Identify and correct common faults in a range of food products; Implement HACCP principles in a large scale food preparation facility; Maintain effective working relationships

Front of House: Plan and implement effective food service systems for a large scale food service facility; Select an appropriate range of service utensils and equipment for the service period; Prepare a range of service utensils for the service period; Use different strategies to create awareness of and promote the large scale facility; Demonstrate appropriate food and beverage service skills; Demonstrate effective and appropriate customer interaction during the service period; Produce a range of beverages according to guidelines; Implement HACCP principles in a large scale food service facility; Cash up and closing procedures are implemented effectively

## **RETAIL OPERATION I**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Tests	60%
	Assignment	40%

Students who fail (i.e. who do not achieve a final mark of less than 50%) can be reassessed by:

Sitting IX make-up test set on the whole semester work; and/or resubmission of the assignment

### **SYLLABUS:**

Introduction to the world of business; The meaning of food retail; Food retail functions; Various forms of food retailer; Food retail strategy; Organisational and operational functions in food retail; Layout, design and store image; Food Merchandise management; Customer service

## **FOOD QUALITY ASSURANCE I (FQUA 101)**

### **ASSESSMENT:**

<b>Examination:</b>	1 x 3 hour paper	
<b>Course mark:</b>	Test	60%
	Assignment/Presentation	40%

### **SYLLABUS:**

Hygiene: Personal, operational and environmental hygiene; Sanitation in the food industry; Types of disinfectants, cleaning agents and sanitizers used in food industry, disinfection and cleaning methods in food industry; Pre-requisite programmes; Legislation of food premises, foodstuffs SA Code of Practices: Hygiene Management, EU laws guiding food premises, training of staff and foodstuff laws. FSSC 22000 - recognized by the Global Food Safety Initiative Standard (GFSI); Overview of food quality and food safety; Factors influencing food safety & quality, distinction between food quality and food safety, common quality attributes of food and instance of hazards in food; Food safety programme; SANS 10330, Hazard Analysis and Critical Control Point (HACCP): Hazard Analysis, critical control points, critical limits, monitoring procedures, corrective action procedures, verification procedures (internal audit) and record keeping and documentation procedures. Good manufacturing practices (GMP), Standard Operating procedures (SOP's), Food quality programme; The quality management principles, ISO 9001 clauses, ISO 9001 sub-clauses. Control of non-conformities, traceability, retention samples, mock-recalls, allergen separation: taint potential, customer complaints and investigations; certificate of analyses and certificate of conformance, trending analyses of quality control.

## **FOOD: SCIENCE AND PRACTICE I I I A (FSCP 301)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test	40%
	Assignment	40%
	Practical work	20%

### **SYLLABUS:**

Theory: Recipe writing, structure, characteristics and format; Research current food trends; Meal and menu preparation; characteristics and types of menus; Costing, formulations and recipe downscaling is applied; Sensory analysis: role of sensory evaluation; types of tests; characteristics of trained and untrained panellists; environment for sensory evaluation, sample preparation and coding; design a sensory evaluation sheet to meet the requirements of a brief; Food legislation and labelling, uses to consumer, identify South African acts that legislate over food, source and reference information from South African food legislation documents, define food additives and note its functions; Food packaging; compare functional characteristics of popular material, research packaging trends



Practical: Incorporate recipe writing principles and current food trends to develop food products that meet the requirements of a brief. Conduct recipe testing; Meal and menu preparation: dishes that reflect trends and the requirements for specified menu courses are selected and prepared. Recipe downscaling is applied; Prepare and code samples for sensory evaluation

### **NUTRITION IIIA (NUTI 301)**

#### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test(s)	40%
	Assignment(s)	60%

#### **SYLLABUS:**

Nutrition related health issues within the SA context.  
Rights – based approach to nutrition knowledge amongst consumers in SA; Nutrition education to consumers relating to current health issues; Nutrition Service Learning will take place in a community setting.

### **FOOD PRODUCTION AND SERVICE OPERATIONS I I I A (FPSO 301)**

#### **ASSESSMENT:**

<b>Continuous assessment:</b>	Tests	60%
	Assignments	40%

#### **SYLLABUS:**

Financial planning and management of a food service operation; Accounting procedures: Operational budget, income statement, balance sheets and ratio analysis; Financial accountability: reports and cost control; Computers and the service process: Hardware, software and reports, POS systems

### **FOOD: SCIENCE AND PRACTICE I I I B (FSCP 302)**

#### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test	20%
	Practical	40%
	Assignment	40%

#### **SYLLABUS:**

Theory: Food and cultural perspectives: international and South African foods, state the food ingredients used in selected ethnic cuisines, cost recipe using prescribed formulation; Demonstration skills; characteristics, types of and methods; Introduction to market research and data analysis  
Practical: Select correct ingredients, use standard proportions, creativity and correct technique to prepare a range of dishes for selected cuisines; Demonstrate using good food communication skills to a target market; Design and administer questionnaire; implement findings to meet the requirements of a brief

## **NUTRITION III B (NUTI 302)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test(s)	40%
	Assignment(s)	60%

### **SYLLABUS:**

Nutrition in the food industry (including legislation and fortification); Nutrition claims made by media and food manufacturers; Consumer/community nutrition guidance to interpret information on food labels; Economic food purchases and the advantages of becoming sustainable; Nutrition service learning will take place in a community setting.

## **FOOD PRODUCTION AND SERVICE OPERATIONS I I B (FPSO 302)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test(s)	40%
	Assignment(s)	60%

### **SYLLABUS:**

Managerial principles: Planning, Organizing (authority, responsibility, delegation, time management); Leading (decision making, leadership styles and traits, organisational behaviour, communication, motivation, teamwork), Control (Management performance); HR management: employment processes and labour relations; Setting up a business/Entrepreneurship: Formulating ideas; finding gaps and niches in the market and translating it to food products

## **FOOD AND NUTRITION PRACTICE I I (FANP 202)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Test	60 %
	Assignment	20 %
	Presentation	20 %

### **SYLLABUS:**

Introduction to research methodology for an industry work-based project; Securing a position in the food and nutrition industry, CV formulation and covering letter, interview questions and techniques; Traits valued by employers; Professional presence and the rules of work for success in the food and nutrition industry; Impact of different social and health problems in the food and nutrition workplace e.g. stress, alcoholism, discrimination, drug abuse, sexual abuse, cultural diversity, conflict types and resolutions

## **FOOD AND NUTRITION PROJECT I I (FSPR 202)**

### **ASSESSMENT:**

<b>Continuous assessment:</b>	Research project	70%	}	60%
	Presentation of the project	30%		
	Monthly evaluation supervisor	60%	}	40%
	Monthly reflection reports:	30%		

**SYLLABUS:**

Structured interview 10%

Project Based Learning:  
Students to demonstrate by means of project/s the integration of scientific-based food and nutrition knowledge in food production, food service, quality control and/or consumer guidance, food retail, community nutrition, recipe and product development acquired through project based learning.

**13.3 BTECH: CONSUMER SCIENCE: FOOD AND NUTRITION (BTFCSI)****FOOD AND FOOD SCIENCE IV (FFSC401)****ASSESSMENT**

**Continuous assessment:** Theory tests: 20%  
Assignments + Projects: 80%

**SYLLABUS:** Food market research. Food trends. Recipe development, Product development. Sensory evaluation. Entrepreneurship.

**INDUSTRIAL PSYCHOLOGY I (IPSF101)****+ASSESSMENT**

**Course mark:** Theory tests: 40%  
Assignments: 30%  
Presentations: 30%

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40% calculated from the marks as indicated above) + Examination mark (60%)

**SYLLABUS:** Introduction to human resource management. Individual behaviour, including individual differences, human abilities, perception, learning, memory, personality, frustration, conflict, stress, alcoholism, drug dependency, social process, including attitude, role theory, conformity groups, social perception.

**MARKETING I (MKTFI01)****ASSESSMENT**

**Course mark:** Theory tests: 45%  
Assignments: 35%  
Research marketing and 20%  
PowerPoint presentation:

**Examination:** 1 X 3 hour paper

**Final Mark:** Course mark (40% calculated from the marks as indicated above) + Examination mark (60%)

**SYLLABUS:** Introduction and fundamentals of marketing applicable to food. Marketing research. Pricing. Retailing. Global marketing, ethical challenges. Latest marketing trends.

**NUTRITION IV (NUTR402)****ASSESSMENT**

**Continuous assessment:** Theory tests: 50%

## **SYLLABUS:**

Assignments: 35%

Worksheets: 15%

Dietary assessment methods, anthropometrical assessment methods, nutrition education, food security, diseases of the alimentary canal; diseases of the liver and biliary tract; rheumatic disorders; metabolic syndrome, supplementation, essential fatty acids.

## **RESEARCH METHODOLOGY: NATURAL SCIENCE (RMDG201) ASSESSMENT**

**Continuous assessment:** Assignments: 40%  
Research Report: 50%  
Scientific Poster: 10%

## **SYLLABUS:**

Tools of research. Planning the research project and writing the proposal. Problem identification and development. Statistics. Research report. Designing a research poster.

## **13.4 ADVANCED DIPLOMA IN CONSUMER SCIENCES IN FOOD AND NUTRITION (ADCSFI)**

### **STATISTICS (STST 401) ASSESSMENT**

**Continuous assessment:** Tests: 70%  
Practical and Assignments: 30%

## **SYLLABUS:**

Types of data; Graphical methods; Numerical summaries; Descriptive for bivariate data; Categorical data (contingency tables); Quantitative data (scatter plots); Normal distribution; Probabilities, percentiles, z-score; Pearson's correlation coefficient; Simple linear regression; Sampling; Confidence intervals; One mean, proportion; Difference between two means, difference between two proportions; Hypothesis testing; Test of independence for two categorical variables; chi-squared test for independence

### **NUTRITION ASSESSMENT**

**Continuous assessment** Final mark calculated as follows:

Tests 25%  
Assignments/Presentation 15%  
Research Project 60%

## **SYLLABUS:**

Assessment of nutritional status; Nutrition related health issues in South Africa including HIV / AIDS and TB; Planning, development, implementation and evaluation of nutrition education programmes; Food and nutrition security framework; Nutrition during a nutritional crises; Nutrition trends: Diet trends; Functional foods; Genetically modified foods; Supplementation; Position statements by public health organizations on current health issues

### **FOOD SAFETY AND QUALITY (FSAQ 401) ASSESSMENT:**

**Examination:** 1 x 3 hour paper

<b>Course mark:</b>	Test	60%
	Assignment/Presentation	40%

**SYLLABUS:** Principles of food safety and quality assurance  
 South African and international food safety legislation e.g:  
 HACCP, ISO standards, BRC standards; Food safety hazards  
 Risk assessment and root cause analysis. Recommend means to mitigate and control risks through cleaning and sanitation, traceability, HACCP, PRPs, Good Manufacturing and Good Agricultural Practices, and other quality assurance and food safety elements Principles of risk assessment, framework of risk assessment, techniques used in risk assessment. Management of allergens in a food manufacturing. Allergen plans and policies in food manufacture to promote a culture of food safety. Food defense plans; Quality control strategies; Set up and assess food quality assurance plans. ISO 9000 control and quality specifications of raw materials (organoleptic, physical, chemical and microbiological) and finished products; sampling, evaluation of sensory properties and packaging. Controls for possible defects and process efficiencies in a food production run. Traceability. Mock recall. Trial production run. SOPs, Monitoring and recording information; Auditing of food safety management systems; Auditing and certification of food safety in the whole supply chain, application of audit principles and practices, initiation and preparation for an audit. Internal audits (gathering audit evidence) for continuous improvement, report on audit findings including non-conformities. Conducting post-audit activities

## **FOOD MARKETING AND COMMUNICATION (FMCO 401)**

### **ASSESSMENT:**

**Examination:** 1 x 3 hour paper

**Course mark:** Tests 60%  
 Assignments  
 Practical 40%

**SYLLABUS:** Fundamentals of food marketing and communication; Marketing environment and segmentation; Branding franchising packaging pricing and distribution; Global markets, service marketing and marketing research; Product planning development and strategies; Branding franchising and packaging; Pricing and distribution; Integrated marketing communication (promotions; digital); Product styling for photography; Product promotion and presentations

## **FOOD AND FOOD SCIENCE (FOFS 401)**

### **ASSESSMENT:**

**Continuous assessment:** The final result will be calculated as follows:

Tests	50%
Recipe/Product development	
Research project	40%
Practical work	10%

**SYLLABUS:** The theory and practical components are interlinked:  
 Theory: Food trends. International and national food drivers and directions of food trends; Market research; Regulatory guidelines (product specific and food safety) and food ethics; Steps in recipe/product development; Sensory analysis: trained panel and consumer sensory analysis; Pricing, Packaging and Distribution;

Nutritional analysis; Product specification: target market, product composition (food ingredient functionality), packaging, shelf life testing, food labelling.  
Practical: Development of product/s for the food industry. Application of food trends to food product development.

## **FOOD AND NUTRITION TRAINING (FNTR 401)**

### **ASSESSMENT:**

#### **Examination:**

<b>Course mark:</b>	Theory test	60%
	Assignment presentation	40%
	Course mark = 40%	Exam mark = 60%

**SYLLABUS:** The education, training and development environment; Learning theories and principles; Determining training and development needs; Training systems and instruction techniques; Steps during the training process; Design and implementation of a training program for a target group; Evaluation and assessment of a training program; Legislation relating to training and development in South Africa