AM SYLLABUS (2012)

# HOME ECONOMICS AND HUMAN ECOLOGY

**AM 18** 

**SYLLABUS** 

# Home Economics and Human Ecology AM 18 Syllabus

(Available in September)

Paper I (3 hours)+Paper II (3 hours)+Paper III (Coursework)

This syllabus provides an advanced course of study in Home Economics and Human Ecology, building upon knowledge and skills learnt within the Home Economics discipline at Secondary Education Certificate (SEC) level. It thus assumes a knowledge of Home Economics at a level equivalent to that defined by the SEC syllabus and attempts to extend and consolidate this knowledge base by integrating the essential principles of the field of study within a core section: *The Family, Home and Society* and *Food, Nutrition and Health*, together with coursework experience in a selection of Option Areas: *Food Technology, Child Development, Senior Members of Society, Hospitality Services* and *Textile Studies*.

The study of Home Economics and Human Ecology may lead to careers in the Hospitality, Food and Textile Industries, Paramedical and Caring Professions, Consumer Services, Education and other related careers.

#### 1. AIMS

The aims listed below reflect the methodology to be adopted for teaching the subject. They highlight the knowledge, skills, attitudes and values required for the study of Home Economics and Human Ecology at Advanced Matriculation Level.

- To encourage an investigative approach to study and an ability to evaluate, manage and make economical, environment-friendly and safe use of resources.
- To develop the ability to make informed decisions.
- To provide experiences of problem-solving, research methodology and practical application when working to a design brief.
- To promote an awareness of design and develop aesthetic appreciation and creative skills
- To foster a sensitive, caring attitude that will lead to the identification and realisation of people's needs.
- To further the concern for the natural environment
- To create an awareness of the impact of rapidly changing technology on the family and society and to develop the skills required to efficiently manage this impact and related lifestyle changes.

#### 2. ASSESSMENT OBJECTIVES

Candidates will be assessed for demonstrating:

- The knowledge, understanding and application of subject-specific information, principles and concepts relevant to Home Economics and Human Ecology.
- An awareness and understanding of contemporary issues, initiatives, current developments and their implications for Home Economics and Human Ecology.
- The use of investigative, experimental, managerial and manipulative techniques to gather, organise and present information, ideas, descriptions and arguments, clearly and logically, in order to reach justified decisions and conclusions
- The ability to appreciate critically the interdependence between creativity and aesthetic principles and identify and evaluate factors and relate them to specific needs
- To demonstrate aesthetic awareness, and be creative when communicating ideas and decisions

#### 3. SCHEME OF ASSESSMENT

The examination will consist of three papers: Paper I and Paper II will be written examination papers and Paper III will comprise Coursework as outlined below.

Candidates must satisfy the Markers' Panel in **all** sections of the examination.

#### Paper I: The Family, Home and Society

This is a written examination paper of three hours duration. The maximum mark is 100 and will contribute to 37.5% of the overall mark of the examination.

Candidates are required to answer five out of six structured, essay-type questions.

#### Paper II: Food, Nutrition and Health

This is a written examination paper of three hours duration. The maximum mark is 100 and will contribute to 37.5% of the overall mark of the examination.

Candidates are required to answer five out of six structured essay-type questions.

#### Paper III: Coursework

The Coursework consists of Part i and Part ii and will contribute to 25% of the overall mark of the examination.

#### Part i. Food Study Task (5% of the total mark)

Candidates are required to carry out a Food Study Task focusing on one food commodity and comprised of

- a related experiment AND
- a food production task or culinary skill.

Guidelines for the Food Study Task are in Appendix I. This work will be assessed internally according to the Assessment Criteria for the Food Study (Appendix III).

Part ii. Investigation (20% of the total mark)

Candidates are required to submit one Investigation chosen from one of the Option Areas. Candidates are expected to use two different research techniques which are different from those used in the Food Study Task. Guidelines for the Investigation are in Appendix II. The Investigation will be assessed internally according to the Assessment Criteria for the Investigation (Appendix IV).

Further details for the Food Study Task and the Investigation are given in Section 7 of this syllabus.

The tutor's assessment for the Food Study Task and the Investigation must be completed and submitted to the MATSEC Examination Board by the date determined by the same Board, and is subject to moderation by the Markers' Panel.

#### 4. GRADE DESCRIPTIONS

The following grade descriptors indicate the level of attainment characteristic of the given grade at Advanced Matriculation (AM) level. They give a general indication of the required learning outcomes at each specific grade. The descriptors should be interpreted in relation to the content outlined in the syllabus; they are not designed to define that content.

#### Grade A

Candidates demonstrate a very well developed ability to:

- Analyse and interpret social, scientific and technological concepts together with the recognition of the complex inter-relationships within the syllabus
- Apply knowledge, understanding and skills to different situations within a theoretical and practical context
- Select and organise material discriminately from a wide range of sources and use this to forward justified
  arguments, judgements, choices and conclusions use effective research methods to explore and develop
  ideas creatively and intuitively, to communicate ideas clearly and accurately in a concise, logical and
  relevant manner, and to critically evaluate outcomes.

#### Grade C

Candidates demonstrate a satisfactory ability to:

- Analyse and interpret a good range of social, scientific and technological concepts and show some recognition of the inter-relationships within the syllabus
- Apply knowledge, understanding and skills to a range of situations within a theoretical and practical context
- Select and organise material from a number of sources and use it to forward appropriate arguments, judgements, choices and conclusions
- Use different research methods to communicate ideas in a relevant manner and to adequately evaluate outcomes.

#### Grade E

Candidates demonstrate a limited ability to:

- Analyse and interpret some social, scientific and technological concepts and show obvious recognition of the inter-relationships within the syllabus
- Apply basic knowledge, understanding and skills to a restricted range of situations within a theoretical and practical context
- Select and organise material from a limited number of sources and use it to forward arguments, judgements, choices and conclusions in a basic manner
- Use different research methods to communicate ideas and evaluate outcomes at a low level.

#### 5. PRIVATE CANDIDATES

Private candidates are expected to refer to a Home Economics and Human Ecology tutor for supervision and guidance. Home Economics teachers who have taught Home Economics for at least five years since 1994 are also eligible as tutors for AM Home Economics and Human Ecology private candidates.

Guidelines for the Food Study Task and Investigation are in Appendices I and II and the Criteria for the Assessment of the Food Study Task and for the Investigation are in Appendices III and IV.

It is important that the candidate's particulars on the Mark Sheets for the Food Study Task and Investigation are duly completed (Appendix V and VI, respectively). The authentication by the supervising tutor is also required on each of above forms.

A declaration of authenticity by the candidate must also be completed for the Food Study Task and for the Investigation (Appendix VII).

Private candidates are to present their work for assessment by the markers' panel by the due date as instructed by the MATSEC office.

#### 6. CORE SECTION (Papers I and II)

#### Paper 1 The Family, Home and Society

The integration of the content, through the consideration of the needs of people and the strategies for meeting these needs, provides the means by which this course should be approached. The themes of human development, health, safety, protection, efficiency, values, aesthetics and the individual's interaction with the environment, form the focus from which the study should develop in the context of an economically, socially and culturally changing society.

#### CONTENT

#### Individual, Family And Household Groups In Society

<u>Concept</u>	Expected Knowledge	<u>Amplification</u>
Family Units And Households	The changing nature of families and lifestyles	- The concept of a family unit - Changes in the family unit structure (e.g. fewer offspring, one-parent family, adopting, fostering, mixed-race, young people moving away from home) and their implications for family
		lifestyle

Concept	Expected Knowledge	<u>Amplification</u>
Wellbeing Of Individual Family	Wellbeing of individual family	- Indicators of family quality of life
Members	members at different stages of	- Family-based strategies for
	the life-cycle and in different	promoting a good quality life
	circumstances	7.07
	The inter-relationship of paid	- Efficient management of
	and unpaid work and leisure and the need to balance them	resources to contribute to smooth running of the family and to avoid
	for individual and family	stress and conflict among family
	wellbeing	members
		- The management of the
		household: shared
		responsibilities, coping with
		different situations (working
		parents, short-term illness,
		chronic illness, disability, shared accommodation with relatives)
		- The implications of the success or
		otherwise of balancing paid and
		unpaid work and leisure time
		- The importance of pursuing a
		variety of leisure time activities
		for personal development and
		family quality of life
	<ul> <li>Poverty and social exclusion</li> </ul>	- The concept of voluntary work - Introduction to causes of, and
	- I overty and social exclusion	remedies to, poverty and social
		exclusion [National Action Plan
		on Poverty And Social
		l —
		Exclusion]
Children's Wellbeing	■ The optimum physical, social,	- Key developmental stages with a
Children's Wellbeing	emotional and intellectual	- Key developmental stages with a focus on physical, social,
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual
Children's Wellbeing	emotional and intellectual	- Key developmental stages with a focus on physical, social, emotional and intellectual development
Children's Wellbeing	emotional and intellectual development of children ages	<ul> <li>Key developmental stages with a focus on physical, social, emotional and intellectual development</li> <li>Providing a variety of experiences</li> </ul>
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development     - Providing a variety of experiences to promote children's holistic development to the maximum of their potential
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development - Providing a variety of experiences to promote children's holistic development to the maximum of their potential - The importance of play in a
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development  - Providing a variety of experiences to promote children's holistic development to the maximum of their potential  - The importance of play in a stimulating environment
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Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development  - Providing a variety of experiences to promote children's holistic development to the maximum of their potential  - The importance of play in a stimulating environment  - The importance of social interaction both with immediate
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Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development  - Providing a variety of experiences to promote children's holistic development to the maximum of their potential  - The importance of play in a stimulating environment  - The importance of social interaction both with immediate family members and with individuals and organisations outside the home (e.g. childminders, nurseries, kindergarten, schools and clubs)  - Infant and childhood health and
Children's Wellbeing	emotional and intellectual development of children ages	- Key developmental stages with a focus on physical, social, emotional and intellectual development  - Providing a variety of experiences to promote children's holistic development to the maximum of their potential  - The importance of play in a stimulating environment  - The importance of social interaction both with immediate family members and with individuals and organisations outside the home (e.g. childminders, nurseries, kindergarten, schools and clubs)  - Infant and childhood health and safety (e.g. basic needs,
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Concept	Expected Knowledge	<u>Amplification</u>
Children's Wellbeing cont.	<ul> <li>Support services provided by</li> </ul>	- Provisions of the welfare system
	the state and NGOs	including Children's
		Allowance, free medical services
		(immunisation, paediatrician,
		School Health Services), Child Care centres, Adoption and
		Foster Care Services, Disabled
		Child Allowance and support
		services for children provided by
		$APPO\dot{G}\dot{G}$ ( to describe a max. of
		3 services)
		- The role and function of the office
A 1 1	DI : 1 : 1 1 : 1	of the Commissioner for Children
Adolescents' Wellbeing	Physical, social and emotional	- Recognising and managing
	development  Transition from adolescence to	physical, social and emotional changes
	adulthood	- Peer pressure and conflicting
		values
		- Socialisation with different age
		groups
		- Gaining independence and
Adulta' Wallhaina	Dognongibilities on Juichte C	becoming responsible adults
Adults' Wellbeing	<ul> <li>Responsibilities and rights of adults</li> </ul>	- Responsibilities towards children, partners and elderly parents
	aduns	- Sharing family-related
		responsibilities within and
		outside the home
	<ul><li>Support services provided by</li></ul>	- Welfare benefits, allowances and
	the state and NGOs	services targeting adults,
		including their responsible use
		(ante- and post-natal classes, single-mother benefits, Sickness
		Allowance, Unemployment
		Allowance, ETC employment
		and training services,
		employment-related family
		friendly measures [maternity
		leave, parental leave, flexi-time,
		tele-working, job-sharing],
Elderly Wellbeing	■ The continuing physical,	lifelong/adult education courses - Preparation for and enjoying
Lidelly Wellochig	social, emotional and	retirement: making beneficial
	intellectual development of the	use of time, maintaining self
	elderly	esteem, managing financial issues
		- Maintaining a healthy and active
		lifestyle in the senior years
		- Participation within the family,
		local community and society - The role of grandparents in
		enhancing young families' and
		children's quality of life
		- Types and causes of elderly abuse
		and neglect and related remedies
		- Housing options for the elderly
		with a focus on the physical,
		financial and social aspects
	1	I

Concept	Expected Knowledge	<u>Amplification</u>
Elderly Wellbeing cont.	<ul> <li>Support services provided by</li> </ul>	- Aspects of the welfare system
	the state and NGOs	related to the elderly (pensions,
		Home Help, Meals On Wheels, Handyman Service, Telecare,
		Kartanzjan, MMDNA, Free
		medication [pink and yellow
		cards], Day Centres, rehabilitation
		hospitals, University of the Third
		Age)
		- Support systems in the
		community (local parish groups,
T 1' '1 1 A 1E '1' W''.	- D:cc + :+ +: 1	Local Councils, CARITAS)
Individuals And Families With	Different situations where  graphical against and is required.	- Individuals and families who may have special needs (family where
Special Needs	special assistance is required for family wellbeing	breadwinner/s is/are unemployed,
	lor raining wembering	single parents, foster families,
		families where there is chronic
		illness)
		- The definition and function of
		'means testing' in relation to
		eligibility for welfare services
	<ul> <li>Support services provided by</li> </ul>	and/or benefits
	<ul> <li>Support services provided by the state and NGOs</li> </ul>	- Aspects of the welfare system related to special needs and
	the state and NOOs	circumstances (Kummissjoni
		Persuni B'Diżabilita, Transport
		for Disabled Persons [TDP], Blue
		Card [free parking place],
		Disability Allowance/Pension,
		Aģenzija Sapport )
		- Community /NGO support
		services related to special needs
		and circumstances (Inspire, Arka Foundation, <i>Dar il-Kaptan</i> ,
		Id-Dar tal-Providenza)
Substance Abuse Within The	<ul> <li>Family well-being and tobacco</li> </ul>	- Physical and social health
Family	use and substance abuse in the	implications, and financial
-	<mark>family</mark>	implications of tobacco use and
		alcohol use and abuse for users/
		abusers and family members
	Prevention and support	- Awareness of the basic
	services provided by the state	prevention and support services
	and NGOs	offerd by <i>Aģenzija Appoģģ</i> and <i>Sedga</i> .
Influences on Individual And	The social, cultural, economic	- The implications of the following
Family Lifestyles	and technological influences	factors for individual and family
	on individual and family	lifestyles:
	lifestyles	- Social (shifting values and
		changes in family household
		structure)
		- Cultural (mixed denominational
		marriages, inclusion of refugees
		and immigrants within the community, the impact of
		tourism and family holidays)
		January Mountagy

Concept	Expected Knowledge	<u>Amplification</u>
Influences on Individual And		- Economic ( <mark>striving for a higher</mark>
Family Lifestyles cont.		standard of living, changing
		economic, domestic and child
		care roles of men and women,
		family members working or
		studying abroad)
		- Technological (the availability
		of new appliances, <mark>security</mark>
		services and household
		management strategies)
		- Leisure activities (greater
		variety in opportunities and
		facilities to use free time
		individually and as a family)

# **Habitat And The Environment**

Concept	Expected Knowledge	Amplification
Factors That Affect The Choice Of	<ul> <li>Rationale for choice of locality</li> </ul>	- The area chosen for setting up
A Home	and implications of choice	home (e.g. urban, village or countryside) and implications of such choice regarding privacy, space, accessibility to amenities, parking problems, air quality, proximity of green areas and open countryside
Different Types Of Living Accommodation	Different types of dwellings available locally	- Basic advantages and disadvantages of living in an apartment, maisonette, terraced
		house, house of character, or farmhouse Renting or buying a home -
		advantages and disadvantages of the two different ways of acquiring a home with reference to the Maltese context
	Social Housing	- Definition and purposes of Social Housing (prevention of poverty [financial issues, social exclusion], provision of equity [individuals with special needs - disabilities, elderly, families with young children], improvement in quality
	<ul> <li>Identifying and accessing available housing</li> </ul>	of life [individuals with special needs - disabilities, elderly, families with young children, families with members with chronic illness, structural changes in bathrooms, kitchens]) - Sources of information on availability of property for purchase or rental - Advantages and disadvantages of using the different sources of information

Concept	Expected Knowledge	<u>Amplification</u>
Housing Needs	<ul> <li>Suitable housing and layouts</li> </ul>	- Basic housing needs of different
	for different stages of the life-	individuals, families and groups
	cycle, for different lifestyles	of people
	and for different personal and family circumstances	- Different types of dwellings suitable for different lifestages
	lamily circumstances	(students, youth, young couples,
		young families and elderly
		persons), different lifestyles
		(persons who run a family
		business within the home, plus
		persons who work from home –
		office/desk-related; craft/hobbies- related; private tuition to small
		groups) and different
		circumstances (parent or sick
		relative moving in with family,
		family; family has a member who
		has special needs)
		- Strategies for making the best
		use of space available - Strategies to ensure accessibility
		of homes considering the needs of
		persons who are physically
		challenged and to meet specific
		circumstances in family lifestyles
		and lifestages, such as families
		who run a home-based business,
		or families with young children or elderly members
	<ul><li>Safety in the home</li></ul>	- The importance of safety in the
	burety in the nome	design of living accommodation
		in relation to children, persons
		who are physically challenged and
		the elderly
	<ul> <li>Security measures in the home</li> </ul>	- Structural and design strategies, and installation of equipment to
		ensure security of the family
		home
Financial And Legal Aspects Of	Financial and economic	- Economic factors that influence
Acquiring Housing	considerations and legal	the type of home chosen
	processes in relation to	- Costs incurred when buying or
	obtaining a home	building a home (real estate agent
		fees, <i>sensarija</i> , notarial and lawyer's fees, stamp duty,
		different expenses incurred when
		buying shell versus finished
		property)
		- Ways of raising money for
		acquiring and finishing a home
		(e.g. bank home loans, short-term bank loans, borrowing from
		relatives)
	l .	

Concept	Expected Knowledge	<u>Amplification</u>
Financial And Legal Aspects Of		- Short- and long-term implications
Acquiring Housing cont.		of borrowing money (individual/
		couple has to keep on working
		[perhaps even when there are
		infants and young children in the
		family]; a 40 year loan might
		still be being paid up till you reach retirement age; potential
		source of stress if repayments not
		possible due to extraordinary
		circumstances)
		- Basic steps in the legal and
		formal process of buying a home
		- The meaning and functions of
		promise of sale (konvenju),
		contract, ground rent, ( <i>ċens</i> ), home insurance, life
		insurance (Mortgage Protection
		Policy)
		- The importance of signing a lease
		in front of a notary when renting a home
Environmental Issues And	<ul> <li>Responsibilities of nations,</li> </ul>	- Global concerns, such as global
Protection	industry and consumers	warming, the depletion of the
	towards the global natural	ozone layer, acid rain, an
	environment	adequate supply of safe water and
		energy for all
	• Economic, aesthetic,	- Strategies which can be adopted
	environmental and health implications of pollution and	on an international, national, family and personal level in order
	related preventive measures	to deal with these problems
	related preventive measures	- Basic definition and function of
		'Environmental Impact
		Assessment' (i.e. assessing the
		impact of a physical structure on
		the quality of the natural
		environment and on the health
		[physical and social] of communities and individuals; to
		safeguard the quality and health of
		the natural environment and of
		communities and individuals)
		- Alternative forms of energy
		production and their impact at
		household and national levels:
		knowledge of various forms
		available internationally, but focus on more locally viable
		solar and wind energy, biomass
		and biogas (methane/landfill gas
		and biodiesel)
		- Basic advantages and
		disadvantages of solar water
		heating systems, photovoltaic
		panels, domestic wind turbines

<u>Concept</u>	Expected Knowledge	<u>Amplification</u>
Environmental Issues And	•	- Chemicals which contribute
Protection cont.		towards global warming and
		outdoor pollution (to name a
		max. of 2 from carbon dioxide,
		carbon monoxide, lead, sulphur
		dioxide nitrogen oxides, hydrocarbons, dioxins) and ways
		in which these can be reduced
		- Indoor pollutants (to name 1 of
		tobacco smoke, cleaning products)
		- Solid and liquid household waste
		disposal in Malta:
		- The function of water treatment
		plants (filtration to create
		second class water, water for
		irrigation)
		- Bring-in sites - Civic Amenity sites
		- Civic Amenuy sues - Bulky refuse collection
		- Definition and purpose of
		engineered landfill
		- The impact of dumps and
		landfills (engineered and
		reclaimed quarries) on the
		environment and on the
		nation's health and economy
Sustainability And The	<ul> <li>Individual and family practices</li> </ul>	- Definition of sustainability
Conservation Of Natural Resources	that contribute towards the	- The role of the individual and the
And Energy	sustainability of the local and global environment.	family to conserve natural resources, mainly non-renewable
	giodai chivironinicht.	sources of energy, water, soil and
		limestone
		- The choice of goods and services
		which safeguard the natural
		environment, namely: goods and
		services which help save on
		energy and water, and/or are
		derived from sustainable sources
		(wood, paper, food) - Practising the traditional 3 Rs, -
		Reduce, Reuse, Recycle
Water Quality	<ul> <li>Sources of potable water and</li> </ul>	- Sources and types of water
	ensuring a safe supply	available locally (tap, bottled,
	C IF J	well water)
		- Safety issues (basic national
		regulations re water safety -
		chlorination, control of dissolved
		solids with particular reference to
		nitrates, sodium, chlorine, lead;
		ensuring safety within the home – securely covered water
		tanks; mains water for
		drinking/cooking);
		- In-home filtration (types of filters:
		filter jugs or domestic reverse
		osmosis units)

# **Management Of Resources**

Concept	Expected Knowledge	Amplification
Consumer Behaviour	Factors which influence consumer buying behaviour	<ul> <li>Personal influences: knowledge, ability, likes and dislikes, emotional factors, values</li> <li>Social influences: gender, family roles, social status, cultural trends</li> <li>Economic influences: income, price, interest charged for hire purchase, saving and borrowing patterns</li> <li>Environment related influences: Considerations of impact on the environment of purchasing decisions (food, clothing, personal hygiene, transport)</li> <li>Marketing and retailing influences: promotional strategies, such as targeted advertising, direct mail, in-store promotion, e-marketing; the changing nature of retailing, such as tele-shopping,</li> </ul>
Consumer information	Sources, regulation and use of different forms of consumer information	online shopping  Types of, and advantages and disadvantages of, sources of information about goods and services: to include the mass media, online sources, printed material, family members, friends and sales personnel  Legislation regarding types of labelling of goods and services (food labelling, textile labelling, eco-labelling [recycled/ recyclability labels, green dot, energy label on electric appliances, EU eco-label], EC safety label): what should be included on packaging and labelling; understanding and interpreting this information  Features of misleading advertising and the role of the Consumer and Competition Division to regulate such type of advertising  The critical evaluation of advice and information on goods and making comparisons re toiletries and detergents, electrical appliances, clothing and toys  Criteria for choosing different home appliances; assessing

Concept	Expected Knowledge	<u>Amplification</u>
Financial Management	The family income	- Definitions of gross income, disposable income, non-wage income
	Types, functions and implications of saving, investing, borrowing, credit and debt  Types, functions and employed and implications of saving, investing, borrowing, credit and debt	- Budgeting to suit different lifestages (teenagers, engaged couples, young families, families with older schoolchildren, families at pre-retirement, elderly couple, elderly individual) and situations (chronic/serious health problems, illness; single parenthood; unemployment) - Sources of financial advice for saving, investing, borrowing, credit and debt (commercial banks, MFSA, private companies) - Uses and limitations of saving and investing options to include key factors, such as long- and short-term costs, flexibility, risk and protection - Uses and limitations of a range of credit (borrowing) options currently available locally and
	<ul> <li>Types and functions of different insurances</li> </ul>	their suitability for individuals and families at different lifestages.  - Causes and implications of running into debt and living on credit  - Different types of insurances (buildings and contents, car, health) and their use for individuals and families in different lifestages or having certain lifestyles  - The function of life insurance versus life assurance policies
Shopping Venues And Purchasing Methods	Traditional and modern ways of purchasing goods	- Advantages and disadvantages for different family members, different groups of people and different family lifestyles of traditional versus modern methods of purchasing (e.g. online shopping, tele-shopping, mailorder, chain stores, hypermarkets, shopping malls) - Consumer rights in doorstep and
	<ul> <li>Different ways of paying for goods and services</li> </ul>	distance shopping (e.g. delivery period, cooling down period)  - Methods of payment and financial transactions: e.g. cash, debit cards, credit cards (including function of chip and pin), store/loyalty cards, pre-paid cards, tele-banking, internet banking  - Function of EPOS and bar codes  - Basic features of secure electronic transactions

<u>Concept</u>	Expected Knowledge	<u>Amplification</u>
Consumer Rights And	<ul> <li>Local regulations concerning</li> </ul>	- Knowledge of consumer rights
Responsibilities	the purchase and use of goods	and responsibilities.
	and services.	- Legal and Commercial
		guarantees
		- Methods of redress when
		problems arise (with retailer or
		service provider in person, over
		the phone, or via a letter; through
		the Consumer and Competition
		Division; through special
		service/column offered by local
		newspapers
	<ul> <li>Local statutory bodies and</li> </ul>	- The function of the Consumer
	organisations which safeguard	Claims Tribunal, Consumer
	consumers rights	Association, and European
		Consumer Centre (ECC)

Paper 2 Food, Nutrition and Health
Food, nutrition and health are a closely related field of study. The study should integrate nutrition and food technology within the historical, social, economic, and scientific perspectives and through these develop an understanding of their application to modern society.

#### CONTENT

#### Nutrition

Concept	Expected Knowledge	<u>Amplification</u>
Protein	<ul> <li>The basic chemical elements and physical structure of proteins</li> <li>Amino acids as the final products of digestion</li> <li>Essential/indispensable and non-essential/dispensable amino acids</li> </ul>	- Chemical elements and physical structure (chains of amino acids; fibrous and globular proteins) - Some examples of proteins in the body - Three examples of essential/indispensable and nonessential/dispensable amino acids, including histidine as the amino acid essential for children - The need for adequate daily intake of essential/indispensable amino acids
	<ul> <li>The biological value of protein</li> <li>The complementary effect of plant proteins</li> <li>The properties and digestion of proteins</li> </ul>	<ul> <li>Examples of foods of high and low biological value</li> <li>Soya protein as an alternative high biological value protein</li> <li>Examples of the complementary effect of plant protein foods</li> <li>Properties of proteins</li> <li>The changes that occur to the</li> </ul>
	proteins	structure of protein during preparation and cooking of food The digestion and metabolism of Proteins
Carbohydrates	The basic chemical elements and physical structure of carbohydrates	- Chemical elements and physical structure (simple diagram of a glucose unit and conversion of monosaccharides to disaccharides )

Concept	Expected Knowledge	Amplification
Carbohydrates cont.	Classification and food sources of the main groups of carbohydrates: sugars, starches and fibre/non-starchy polysaccharides (NSP)	- Food sources of different carbohydrates
	The relationship between monosaccharides, disaccharides and polysaccharides	<ul> <li>Explaining the formation of disaccharides and polysaccharides from monosaccharides</li> <li>Monosaccharides as end products of digestion</li> </ul>
	The function of carbohydrates	<ul> <li>The contribution of each type of carbohydrate to health</li> <li>Carbohydrates as the optimal source of energy</li> <li>Recommended daily fibre intake</li> <li>Impact of over-consumption of different types of carbohydrates</li> <li>The effects of fibre/NSP on the digestive tract</li> <li>The health implication of diets low in fibre/NSP</li> </ul>
	The properties and digestion of carbohydrates	Properties of sugars and starches     The changes that occur to the structure of carbohydrates during preparation and cooking of food     The digestion and metabolism of carbohydrates
Lipids	<ul> <li>The basic chemical elements and physical structure of fats</li> <li>Classification of lipids – fats and oils, cholesterol, lecithin</li> <li>The main types of fatty acids</li> <li>Hydrogenated oils and trans and cis fats</li> </ul>	- Chemical elements and physical structure (fat as being composed of glycerol plus 3 fatty acids; saturated, unsaturated, polyunsaturated, trans and cis fatty acids; omega 3 and omega 6 fatty acids [including simple diagrams of each of these fatty acids]) - Basic description of hydrogenated oils and trans and cis fats - Fatty acids as the end products of digestion
	<ul> <li>The main sources of dietary fats</li> <li>The value of lipids in the diet (including cholesterol and omega fatty acids)</li> </ul>	<ul> <li>Food sources of the different lipids</li> <li>Lipids as a concentrated source of energy; potential role in obesity, heart health and cancer</li> <li>Action of lipids in the body, with particular focus on arterial health; the role of cholesterol in relation to heart health (the function of HDL- and LDL-cholesterol)</li> <li>The benefits of omega 3 and omega 6 with respect to heart disease risk prevention</li> </ul>

Concept	Expected Knowledge	Amplification
Lipids cont.	Properties and digestion of lipids	The changes that occur to the structure of lipids during cooking of food     The digestion and metabolism of lipids
	The modification of fat intake in accordance with the dietary guidelines	- Methods of modifying the use and intake of dietary lipids to reduce the risk of dietary-related disorders and diseases
Vitamins	<ul> <li>Definition, scientific names, classification and properties of Vitamins</li> </ul>	<ul> <li>Fat soluble: A – beta-carotene, retinol; , D – cholecalciferol; E – tocopherol; K - phylliquinone</li> <li>Water soluble: B<sub>1</sub> – thiamin; B<sub>2</sub> – riboflavin; B<sub>3</sub> - niacin; B<sub>6</sub> – pyridoxine; B<sub>9</sub> - folic acid/folate/folacin; B<sub>12</sub> – cobalamin; C – ascorbic acid</li> <li>Properties of fat-soluble versus water-soluble vitamins</li> </ul>
	The main sources and functions of vitamins	<ul> <li>Common sources of the different vitamins</li> <li>Main functions of the different vitamins</li> </ul>
	<ul> <li>Recommended intake of specific vitamins for certain population groups according to National Dietary Guidelines and Nutrient goals and WHO CINDI recommendations</li> <li>The effect of insufficient and excessive intakes of vitamins</li> </ul>	- Individuals and groups who have particular vitamin needs - Recommended nutrient intakes: Vitamin C for children, adults, pregnant mothers; folic acid for pregnant mothers - The effects of low and high intakes of vitamins on different population groups (focus on vitamins A, C, D) - The importance of taking dietary sources of vitamins
	<ul> <li>Changes that occur during the preparation, cooking and serving of foods rich in vitamins</li> </ul>	- The role of vitamin supplements and ensuring a safe intake  - External conditions (storage, preparation and processing of foods) affecting vitamin stability and the methods used to ensure maximum retention and availability of fat-soluble and water-soluble vitamins
Minerals	<ul> <li>Functions and main food sources of key minerals including trace elements</li> <li>Recommended intake of specific minerals for certain population groups according to National Dietary Guidelines and Nutrient goals and WHO CINDI recommendations</li> </ul>	- The functions and common food sources of calcium, potassium, phosphorus, sodium, magnesium, iron, zinc, iodine and fluoride Recommended intakes of calcium for children, teenagers and pregnant and lactating mothers - Recommended intakes of iron for male and female adults and for pregnant mothers - Recommended maximum intake of salt (sodium chloride) and of sodium for adults and children

Concept	Expected Knowledge	<u>Amplification</u>
Minerals cont.	<ul> <li>Mineral requirements by different population groups</li> </ul>	<ul> <li>Population groups who require higher intakes of iron (women,</li> </ul>
		growing children, adolescents
		and the elderly) - Population groups who require
		higher intakes of calcium
		(children and adolescents,
		pregnant and lactating mothers) - Population groups who require
		higher (labourers, hot countries)
	- TI CC + C 1	and lower intakes of sodium
	The effects of and prevention of insufficient intake of certain	- The effects of low dietary intakes of iron and calcium in the body
	minerals	and strategies to improve their
W		absorption
Water and fluids	<ul><li>Role of water in the body</li><li>The importance of an adequate</li></ul>	- Basic functions of water in the body
	fluid intake	- Balancing fluid intake with losses
	<ul><li>Signs of dehydration</li></ul>	from the body
		- Recommended daily fluid intake for adults (2 litres)
		- Population groups who require a
		higher fluid intake
		- Symptoms and effects of dehydration
Energy Value Of Foods	The energy value of foods	- Foods which are high in calories
		(foods rich in fats, low in water
		content) - Foods which are low in calories
		- Value of fruits and vegetables as
		foods with a high water content
	<ul> <li>Food at fast food outlets</li> </ul>	- Critical analysis of most popular fast foods for energy value
		rast roods for energy varue

## **Food Habits And Needs**

Concept	Expected Knowledge	<u>Amplification</u>
Factors Affecting Food Choices	<ul><li>Psychological, social,</li></ul>	- Understanding of differences in
And Eating Patterns	economic and technological	the relative importance and
	factors affecting food choices	impact of psychological, social,
		economic and technological
		factors in the food choices of
		different groups and individuals
	<ul> <li>Availability, accessibility,</li> </ul>	- Causes and implications of
	retailing methods, market	changing dietary patterns (food
	influences, global influences	availability, accessibility,
		retailing methods, marketing;
		global influences [e.g. sustainable
		consumption])
	<ul> <li>Personal preferences and peer</li> </ul>	- Personal food preferences and
	groups	influence of peer groups in
		different settings

Concept	Expected Knowledge	Amplification
Nutrient Goals And Dietary	Nutrient goals and dietary	- Definition and function of
Guidelines	guidelines for the Maltese	nutrient goals and dietary
	nation	guidelines
		- The WHO/CINDI Food Pyramid
		and CINDI dietary guidelines;
		justification of the 12 steps to
		healthy eating
		- Recommended percentage of
		energy intake from
		carbohydrates, sugars, proteins,
		fats and saturated fats
		- Recommended daily fibre intake and dietary cholesterol intake
Physiological Requirements For	Specific and changing nutrient	- Pregnancy and lactation
Nutrients	needs of individuals	- Lactose intolerance
		- Coeliacs (Gluten-free)
		- Diabetics (Low in energy, sugar,
		fats, salt)
		- Hypertensives (Low salt)
		- Vegetarians
		- Elderly
		- Illness and convalescence (fever,
	- Adams and Countries and in any tries at	gastroenteritis)
	Adequacy of certain nutrient     intolves for specific groups in	- Comparing stated intakes to the recommended intakes of certain
	intakes for specific groups in various stages of the life-cycle	vitamins and minerals for specific
	various stages of the me-cycle	population groups
Energy Needs Of Individuals	■ Energy balance and imbalance	- Meaning of energy input and
	and the effects on health	output
		- Effects of imbalance: Overweight
		and obesity versus wasting and
		their implications for health
		- BMI ranges and BMI as an
		indicator of increased risk for
	Factors which influence energy	health problems - Changing energy needs
	<ul> <li>Factors which influence energy intakes</li> </ul>	throughout the life-cycle,
	intakes	focusing on level of activity, rate
		of growth, age, body size and
		gender; to include:
		- Babies (0-1 years)
		- Pre-school children (1-4 years)
		- Growing school children (5-
		10 years)
		- Adolescence (2 <sup>nd</sup> growth spurt)
		- Pregnancy and lactation
		(foetal nutrition and
		production of milk, respectively)
		- Adults (sedentary vs. active)
		- Adults (sedentary vs. active) - Elderly (healthy or ill)
	<ul> <li>Healthy weight management</li> </ul>	- Healthy weight management
	Treating weight management	practices: choice of diet and
		physical activity
		physical activity

# **Applied Nutrition**

Concept	Expected Knowledge	Amplification
The Concept Of A Balanced,	A balanced diet for all based	- Menu and meal planning based
Optimal, Prudent Healthy Diet	on the national nutrient goals	on the national and CINDI
	and dietary guidelines	dietary guidelines
		- The importance of a balance in
		menu and meal planning to
		include: nutrients, energy value,
		colour, texture, flavour
The Concept Of A Balanced,	<ul> <li>Recipe modification to</li> </ul>	- Strategies for modifying recipes
Optimal, Prudent Healthy Diet	increase health value  The role of traditional foods in	to make them healthier - The value of traditional Maltese
cont.	promoting healthy diets	dishes and how recipes can be
	promoting hearthy diets	modified to make them healthier
		if necessary (e.g. bigilla, torti,
		brungiel/qarabagħli mimli,
		timpana, pulpetti tal-ħut, stuffat
		tal-fenek, soppa tal-armla, figolla)
The Relationship Between Diet	<ul><li>Common meal patterns,</li></ul>	- Prevalence of snacking and
And Health	changing dietary practice and	skipping breakfast; the consistent
	health health	use of convenience foods, take-
		out food and food consumption
		outside the home; awareness of
		health-related advantages and disadvantages of organic farming
		and GMOs; fad diets and eating
		disorders and how to make wise
		food choices to ensure healthy
		eating
	<ul> <li>Diet-related disorders and</li> </ul>	- The role of diet in the
	diseases common and	development and prevention of
	emergent in Malta	obesity, diabetes, coronary heart
		disease, hypertension, dental
		caries, diverticulosis,
		osteoporosis, constipation, anaemia, some cancers (e.g. colo-
		rectal cancer), eating disorders
		- Food intolerances: lactose
		intolerance, gluten intolerance
		(coeliac) and peanut allergy
	<ul> <li>Vegetarian diets and health</li> </ul>	- Types of vegetarian diets: lacto,
		lacto-ovo, pesco, vegans
		- The health benefits of vegetarian /
	- Diotom: 1- 6 1'00	plant-based diets
	<ul> <li>Dietary needs for different stages in the life cycle</li> </ul>	- Recommended food intake for maintaining health in different
	stages in the life cycle	population groups: pregnant and
		lactating women, infants (0-1
		years), pre-school children (1-4
		years), growing school children
		(5- 10 years), adolescents, adults,
		the elderly
		- Identification of population
		groups at risk through low or
		high intakes of specific nutrients
L	1	1

<u>Concept</u>	Expected Knowledge	<u>Amplification</u>
Menu And Meal Planning	Planning suitable menus and meals for specific conditions	- Special dietary requirements for diabetics, coeliacs, vegetarians, vegans, individuals on a calorie- reduced, or high-fibre, or low-fat, or low-salt, or low-cholesterol diet
Menu And Meal Planning cont.	Planning economical healthy meals	- Factors to be considered when planning economical healthy meals: e.g. The use of foods in season, use of cheaper cuts of meat, adding vegetables, pulses or soya to extend a meat dish, taking advantage of special offers (buying in bulk and freezing) - Identifying good quality food (nutritional value for money) - Comparing prices per unit, weight, volume and shelf position - Use of energy-saving appliances and strategies when cooking food
	<ul> <li>Nutritional analysis of meals and recipes</li> </ul>	- Analysis of meals and recipes for key nutrients provided (also to meet specific dietary / health needs) - Recommending strategies for improving nutritional value of meals and recipes

# Food Production

Trends And Concerns in Food Production  Awareness of present day trends and concerns in food production  - Current consumer concerns, such as the use of GMOs, pesticides, artificial fertilisers, additives, irradiation - Production, benefits and safety issues related to GMOs and functional foods - Process, advantages and disadvantages of organic
farming, aquaculture, hydroponics  Animal rearing and slaughtering procedures  Animal transmission of disease to humans  Sourcing local food (familiarity with local food, higher freshness and nutritive value of food, appreciation of seasonality, sustaining local economy)  Food miles (impact on energy use for transportation, impact on air pollution)

Concept	Expected Knowledge	Amplification
Commercial Distribution And	<ul> <li>Means and safety of food</li> </ul>	- Food hygiene and safety in
Storage Of Food	transportation	transportation, with a focus on
-	_	warehouse storage and
		refrigerated ships
	<ul> <li>Storage of food in shopping</li> </ul>	- Safe food storage at shopping
	outlets	outlets: use of coolers/chillers/
		freezers, length of time in storage
		- Safety standards: basic
		understanding of HACCP
Food Packaging	<ul> <li>Food safety</li> </ul>	- Modified atmosphere packaging
		- Vacuum packaging
		- Toxicity of materials
		- Migration of plasticisers
	Environmental protection	- Tamper-proof seals
	<ul> <li>Environmental protection</li> </ul>	- Sustainability of materials
		- Air pollution due to production process
		- Waste generation
		- Waste generation - Recyclability and (bio)
		degradability of packaging
	<ul> <li>Cost to consumer</li> </ul>	- Cost to consumers of different
	Cost to Consumo	packaging material and of shelf-
		life of packaging
Food Labelling	<ul> <li>Food labelling</li> </ul>	- The importance of proper
	<ul> <li>Symbols on food labels and</li> </ul>	labelling
	their impact on consumer	- Basic EU regulations on food
	choice and health	labelling: e.g. 'Best before', 'Use
		by' and 'Expiry' dates; name and
		address of manufacturer;
		servings; method of storage,
		preparation and serving; weight;
		place of origin; nutritional
		analysis of food
		- Identification and use of Organic,
		Gluten Free, Vegetarian and Fair Trade symbols
		- Information about recycled and
		recyclability properties of
		packaging, including
		identification of symbols
	<ul> <li>Claims and endorsements on</li> </ul>	- Interpreting and using claims for
	food labels and their impact on	making appropriate food choices
	consumer choice and health	- Potential for consumer
		miscomprehension: e.g.
		- A low-fat product may be high
		in sugar and salt content
		- A high fibre food may be high
		in salt
		- Iron deficiency may occur due
		to decrease of red meat/eggs
		often advised in relation to
		management of cholesterol
		- Excess fibre may lead to
		deficiencies due to binding
		with minerals

## **Food Commodities**

Concept	Expected Knowledge	<u>Amplification</u>
Different Foods	<ul> <li>Classification of the food:         <u>Plant sources</u> including wheat,         rice, flour, potatoes, fruits,         vegetables, pulses, TVP and         soya products         <u>Animal sources</u> including         meat, poultry, rabbit, fish,         eggs, milk, fermented dairy         products (cheese [ricotta,         <i>ġbejniet</i>] and yogurt)</li> </ul>	- The main classification of different varieties within the food
	<ul><li>Production of the food</li><li>Products of the food</li></ul>	- The main steps in food production, outlining underlying scientific principles involved: whole grains vs. refined grains; different types of milk and their production; yoghurt and cheesemaking - Different fresh and preserved
	<ul> <li>Structure or composition of the</li> </ul>	products of specific foods - The physical structure or
	food Different types of the food	composition of the food  - Identification of different types of food within a particular classification (e.g. cod and plaice are different types of white fish)
	<ul><li>Nutrient content</li><li>Consumer choice</li></ul>	<ul> <li>Emphasis on the nutrients that are present in the food in high and useful amounts</li> <li>Any key nutrients lacking in the food</li> <li>Guidelines for consumers when</li> </ul>
	<ul><li>Uses of the food</li></ul>	purchasing the food  - What to look for when checking for freshness  - Different functions of the food.  - Particular recipes where the food is a main ingredient.
	<ul> <li>Methods of cooking the food and different outcomes</li> </ul>	<ul> <li>Emphasis on traditional recipes using the food.</li> <li>Different cooking methods that are used to cook specific foods, outlining underlying scientific principles.</li> <li>Preparation of food for the different cooking methods</li> <li>Effects of different cooking methods on the appearance, taste, smell, texture and nutritional value of the food.</li> </ul>

Concept	Expected Knowledge	<u>Amplification</u>
Different Foods cont.	Ensuring the retention of nutrients	- The effect of dry and moist heat on the retention of nutrients:  - Steaming better than boiling  - The use of a microwave oven or pressure cooker to reduce cooking time  - Last-minute preparation of fruit and vegetables – no soaking in water  - Proper storage of dry goods and perishable foods
	<ul><li>Storing the food</li></ul>	<ul> <li>- Proper use of refrigerator and freezer</li> <li>- Appropriate storage to retain freshness and nutritional value of food</li> </ul>

# **Food Spoilage And Preservation**

Concept	Expected Knowledge	<u>Amplification</u>
Food Spoilage	<ul> <li>The main types of food spoilage</li> </ul>	- Common examples of microbial (fermentation), biological (over ripening) and chemical (oxidation) food spoilage
	<ul> <li>The principles underlying the growth and control of micro- organisms: bacteria, moulds and yeasts</li> </ul>	Types of micro-organisms and the conditions necessary for growth and multiplication
	<ul> <li>The beneficial and adverse effects of micro-organisms and enzymes in the production of foods</li> </ul>	- Principles underlying the effects of the use of micro-organisms and enzymes in specific foods, such as cheeses and yoghurt - Implications for consumer health
Food Poisoning	<ul> <li>Food poisoning organisms and susceptible foodstuffs</li> <li>Process and symptoms of bacterial food poisoning</li> </ul>	- Causes, process (including incubation period) and symptoms of bacterial food poisoning (namely: salmonella, bacillus cereus and E Coli)
	<ul> <li>High-risk situations</li> </ul>	- Common situations with potential for food poisoning outbreaks
	<ul> <li>Local regulations regarding food safety</li> <li>Definition and key features of HACCP</li> </ul>	- Basic strategies for safe food handling at school, at work, at the beach, during picnics or BBQs, in food kiosks or food stalls
	насср	- Food handling certification and food safety inspections, including basic features of HACCP; implications for consumer health and food handling practices
The Preservation Of Food	The scientific principles underlying different methods of preservation	- Dehydration, heat treatment, low temperatures (freezing and chilling), chemical preservatives (traditional and permitted), curing and irradiation.
	<ul> <li>Home refrigeration and freezing</li> </ul>	- Equipment and procedures for efficient and safe refrigeration/ freezing at home

#### Recommended Textbooks

OCR Home Economics for A2

Food, Nutrition and Health Today (ISBN 978-0-340-97366-0)

OCR Home Economics for AS

Food, Nutrition and Health today (ISBN 978-0-340-96803-1)

Manual of Nutrition

MAFF: the Stationary Office (ISBN 0-11-242991-2)

Food and Nutrition

Anita Tull, Oxford University Press (ISBN 0-19-832766-8)

Cooking Explained

Barbara Hammond and Jill Davies, Longman (ISBN 0-582-30573)

#### Recommended Reference Book

Understanding Nutrition

Ellie Whitney & Susan Rady Rolfes, Thomson Learning Inc. (ISBN 0-534-62242-9)

#### **Useful Online Sources**

Ministry for the Family & Social Solidarity Government of Malta

www.msp.gov.mt/services

Ministry for Social Policy

www.sahha.gov.mt

Infectious Disease Prevention and Control Unit

www.health.gov.mt

Ministry for Resources & Rural Affairs

http://www.mrra.gov.mt/

Ministry of Education

www.education.gov.mt

**Employment Training Corporation (ETC)** 

www.etc.gov.mt

National Youth Council of Malta

www.knz.org.mt

Kummissjoni Nazzjonali Persuni B'Diżabilita'

www.knpd.org

Caritas Malta

www.caritasmalta.org

Oasi Foundation – Gozo

www.oasi.org.mt

Consumer & Competition Division - Malta

http://www.gov.mt/frame.asp?l=2&url=http://finance.gov.mt/page.aspx?site=ccd&page=default

European Consumer Center – Malta

http://www.eccnetmalta.gov.mt/home

Dolceta - Online Consumer Education

www.dolceta.eu

#### 7. Coursework (Paper III)

Candidates will be required to present:

Part i. A Food Study Task focusing on one food commodity and comprised of

- a related experiment AND
  - a food production task or culinary skill.

The Task may include a classic scientific experiment, a comparative experiment involving food production and testing or sensory analysis, and production of a food, dish or menu to apply nutrition knowledge and demonstrate particular culinary skills. Candidates are required to present a report outlining the whole process involved in the execution of their task and discussing aims, choice of procedures, realisation, outcomes and evaluation. The inclusion of graphical evidence is recommended.

Part ii. An *Investigation* based on <u>one</u> of the Option Areas: i.e. Food Technology, Child Development, Senior Members of Society, Hospitality Services and Textile Studies. Candidates are expected to use <u>two</u> different research techniques from the following: an argumentative researched essay, a report on a visit, an interview, a survey by questionnaire, a comparative survey of products and services, a textile scientific experiment, a case study, a product analysis, an audio-visual presentation, a practical demonstration, recipe development activities, an original product/production. The two techniques should be different from those used in the Food Study Task.

Candidates are encouraged to:

- select appropriate research material
- make use of local relevant information
- plan an investigative procedure
- decide on an appropriate course of action, taking into consideration the priorities identified
- carry out a course of action by applying appropriate skills
- discuss, assess and evaluate the effectiveness of the course of action.

For the Investigation, Housing and/or Sustainability of the Environment may be incorporated as underlying themes, or as secondary foci in any piece of research within the different Option areas.

Guidelines for the Food Study Task and for the Investigation are in Appendices I and II, and the Assessment Criteria for the Food Study Task and for the Investigation are in Appendices III and IV. The coversheets for the Food Study Task and Investigation are in Appendices V and VI. Forms for candidate's declaration of authenticity are in Appendix VII.

#### 8. OPTION AREAS

# A: Food Technology

This option area focuses on the ability to research, select, comprehend and interpret scientific evidence of current technological developments, applied to foodstuffs. The opportunity to encourage creativity is also provided.

Suggestions and Ideas:

- New and alternative methods for the production of foodstuffs (e.g. organic farming, biological pest control, hydroponics, genetic modification, aquaculture, humane animal rearing, the routine use of antibiotics, transmission of diseases through animals, etc.)
- The implications of technology on the processing, packaging and storage of foodstuffs (economic, environmental, nutritional and health perspectives)
- Food quality, safety and legislation
- Creating innovative food products/ processes/ packaging for specific purposes.

#### B: Child Development

This option area is concerned with the development and care of pre-school children (1-4 years) and primary school children (4-10 years) within the family environment and the community.

Suggestions and Ideas:

- The social, emotional, physical and mental development of the young
- Relationships, values, family life styles and parental responsibilities
- Provisions to meet the changing needs of children (health, safety, education and protection)
- The inclusion of children with special needs.

#### C: Senior Members of Society

This option focuses on the role and contribution of senior members to society. Adaptations to changing circumstances are also addressed.

#### Suggestions and Ideas:

- Preparation and coping with retirement
- The emotional, social and economic aspects throughout retirement
- Maintaining a healthy and active lifestyle
- The contribution and active participation within the family and the community
- Welfare provisions and support services

#### D: Hospitality Industry and Services

This option enables students to gain an insight into the importance of suitable, safe and pleasant environments in the hospitality service industries. The application of this knowledge can be used both in the home and in the community.

#### Suggestions and Ideas:

- The role and functions of different hospitality services in relation to customers' changing needs and expectations
- The need for appropriate and effective interpersonal and communication skills
- The efficient, economic, hygienic and safe use, control and management of resources
- The overall effect of decor in the working and leisure environments
- The selection and care of textiles, suitable for different purposes, with particular reference to: colour/light fastness, abrasion resistance, absorbency, water repellent properties, fire retardant properties, anti-static properties.
- The impact of tourism on the local natural environment and environment-friendly practices of the hospitality industry

#### E: Textile Studies

This option enables students to develop scientific knowledge and creative skills in the field of fashion, textiles and technology. This knowledge forms the basis for the choice of suitable personal and household textiles, for use in a rapidly changing society.

#### Suggestions and Ideas:

- Structure and its effect on the properties of fibres, yarns and fabrics (e.g. insulation, resiliency, elasticity, absorbency, permeability, stability, flammability, resistance to abrasion, light and cleaning procedures, etc.)
- The evaluation of the physical and chemical properties of natural, regenerated and synthetic fibres.
- The selection, care and use of textiles for personal and household use.
- The re-use and recycling of textiles.
- The economic, cultural, social and technological influences on fashion and household textiles.
- The creative use and re-use of textiles.

APPENDIX I

# GUIDELINES FOR THE FOOD STUDY TASK Paper III (part i) (50 marks - 5% of total mark)

The Food Study Task focuses on a food commodity and aims to foster creativity and organisational, investigative, critical, technical and presentation skills in conducting a study around the chosen commodity. Candidates are encouraged to carry out a scientific or comparative experiment, as well as some form of food production to demonstrate application of nutrition knowledge, innovation and/or culinary skills.

## The emphasis is on the:

- Formulation of a plan of action
- Choice of resources and procedures
- Realisation of the plan of action
- Demonstration of initiative, creativity and originality
- Competency in organisational, technical and presentation skills
- Demonstration of critical analysis of procedures and outcomes

Candidates need to show evidence of planning, implementation and evaluation through a written report, possibly accompanied with graphical (e.g. photo, video) evidence.

The Food Study Task report should be presented in line with the below template. The required length is of approximately 8-10 pages (excluding Title page).

APPENDIX I CONT.

# REPORT TEMPLATE FOR THE FOOD STUDY TASK

The following template should be used to guide the writing up of the report for the Food Study Task. The recommended length is approximately **8-10 pages** (excluding Title page).

Title of Food Study	- Title, candidate's name, da	ıte		
Aims and Design	- Outline of aims and simple introduction to tasks (food experiment			
(approx. 1 page)	and food production/ culinary skill component).			
(max. 4 marks)	- Explanation of the process of the food study tasks.			
<b>Implementation and Presentation of</b>	- Step-by-step record of the process (text and photographic evidence			
Results	if appropriate)			
(approx. 4-6 pages)	- For the experiment, should include the aim, apparatus required,			
(max. 25 marks)	method, results and conclusions.			
	- For the food production or culinary skill component, should			
	include a time plan, evidence of implementation, discussion of			
	outcomes.			
Nutritional Analysis (of food product	Nutrient	<b>Analysis</b>		
/ dish / meal)		(per item / portion / dish)		
(approx 0.5 page)	Protein			
(max. 8 marks)	Carbohydrates			
	of which Sugars			
	<mark>Fat</mark>			
	of which Saturated Fats			
	Sodium			
	Fibre			
	Other (Optional):			
Cost Analysis (of food product / dish	<b>Item</b>	Cost		
<mark>/ meal)</mark>				
(approx. 0.5 page)				
(max. 3 marks)				
		Total Cost=		
		1		
Evaluation of task	- Critical discussion of the various results of the study and of the			
(approx. 2 pages)	actual procedures.			
(max. 10 marks)				

#### APPENDIX II

# GUIDELINES FOR THE INVESTIGATION Paper III (part ii)

(100 marks - 20% of total mark)

As a general guide for a particular investigation marked out of 100, assessment should be based on the following criteria:

#### Title Analysis, Aims and Research Techniques

(Max. 20 marks)

Candidates should be able to:

- select the topic or area of study and give a detailed analysis of all factors involved
- identify particular areas of priority and give a reasoned account for the chosen investigatory procedures

#### Research Design and Recording of Information

(Max. 15 marks)

Candidates should be able to:

- justify use of a variety of methods of investigation thoroughly and well, and develop a worthwhile study
- collate and present data including local information

### Planning, Organisation and Implementation of Investigative Techniques

(Max. 25 marks)

Candidates should be able to:

- analyse the results from the initial research
- draw detailed conclusions and make well reasoned decisions
- show effective use of the evidence gained from preliminary findings to organise and plan further in-depth research and a worthwhile study
- clearly indicate the field of study, stating the priorities, and show the ability to make informed judgements based on the evidence found
- plan and organise the logistics to implement the research
- carry out a number of different, appropriate methods of enquiry at a high level
- demonstrate skilful realisation of investigatory work

#### Presentation and Discussion of Results

(Max. 20 marks)

Candidates should be able to:

- present results accurately and effectively
- show linkages between results from different investigative techniques
- give a critical discussion of the results and their implications
- present justified overall conclusions

# Evaluation (Max. 20 marks)

Candidates should be able to:

- present a critical analysis of the effectiveness of the study and of the course of action from which the study developed
- identify and outline possible future developments as a result of the research.

#### The Scope of the Investigation

The Investigation report should not exceed 40 pages (excluding the Appendices, Bibliography and pages showing solely Tables, Figures, diagrams, plates or photos,). The activity should address a clearly defined, focused area of the syllabus content and involve the use of primary and secondary sources. The investigation activity should provide opportunities for candidates to demonstrate their understanding of the connections and relationships between some of the aspects of Home Economics and Human Ecology represented in this area of the syllabus. It should also present opportunities for practical activities appropriate to the activity selected.

In pursuit of efficiency it is recommended that candidates should:

- avoid titles of a general nature which will generate numerous wide-ranging activities;
- use the evidence from secondary research to select no more than three practical activities which can feasibly be undertaken within the allocated time;
- select titles which will limit the amount of secondary information recorded;
- limit the scope of their secondary research to those aspects which are specific to the assignment wide-ranging research into every aspect of the topic is not expected.

APPENDIX II CONT.

#### <u>Presentation of the Investigation Report:</u>

It is recommended that the investigative activities undertaken by candidates should be written up in a report using a format similar to that set out below.

- Title This should be focused and provide a concise summary of the main idea of the investigation. The investigation selected should offer appropriate intellectual challenge and be capable of being investigated at Advanced Matriculation standard. A title which is of a general nature and invites a project style approach should be avoided.
- Introduction The area, problem or issue being studied should be specified and an explanation of why it is important provided. The introduction should indicate the connections and relationships between the specification content. Relevant theory which supports the issues being investigated should be included and used to clarify how and why the aim(s) were derived. The style should be in the form of an "argued essay".
- Statement of Aims (and/or objectives) The aim(s) of the research component should be stated in a clear, logical and focused manner which clarifies the title. One realistic and succinct aim is preferable to three or four aims which may be vague and unclear. The aim(s) should be capable of being realised in the allocated time
- Methods This section should include a description of what was done and why, and indicate how the investigation(s) undertaken have fulfilled the aim(s). The write-up should be concise yet sufficiently detailed to permit the replication of the investigation(s). The description of the design of the investigation might include:
- identification of the main issues;
- the method of approach and why this method was chosen, e.g. link with the aim(s) and the secondary research;
- the procedures employed to collect the data, e.g. questionnaires, interviews, case studies, observation, sensory analysis, experimental work, recipe development activities, product analysis or development;
- relevant characteristics of the participants, e.g. numbers, gender, age;
- ethical considerations;
- percentage response;
- how the results compare with relevant secondary research;
- the limitations of any procedure or method employed and any problems encountered;
- some evaluation with reasoned justification and discussion of the issues.
- Results and Discussion Data should be summarised and set out in a logical format. Tables and figures should be presented within the text, appropriately titled. Some interpretation and reasoned discussion of the results should be provided. The results should be compared with the relevant secondary research. Results should be evaluated realistically and critically.
- Conclusions In relation to each aim, a statement of what has been concluded should be provided along with a reasoned explanation based on the theoretical evidence previously cited. Where an aim cannot be realised because of the findings or where the findings are contradictory, a reasoned explanation should be included. A brief evaluation of the strengths and weaknesses of the investigation and of the research process should be included along with suggestions for improvement. Areas or issues for future research might be suggested and justified.
- Bibliography References should be acknowledged within the text and itemised in a bibliography at the end of the report. Lack of references to sources may be regarded as plagiarism. The standard format for a bibliography should be followed. Details of all sources of information should be accurate.
- Appendices Include evidence to support and justify statements and decisions documented in the report. For example, an original questionnaire or interview schedule, primary research data, an example of letters written and received, relevant secondary research data and photographic evidence might be included.

Note: The text should be on one side of A4 paper only. It should be legible, in hand-written or printed form, and the pages numbered.

#### APPENDIX III

# ASSESSMENT CRITERIA FOR THE FOOD STUDY TASK

For a Food Study Task marked out of 50, the following criteria should be adopted:

Aims and Design	(Max. 4 marks)
0-2	- Limited and unclear explanation of the aims and design of the food study tasks
3-4	- Thorough and clear explanation of the aims and design of the food study tasks
Implementation and	Presentation of Results (Max. 25 marks)
0-10	- Required considerable help in the formulation of a plan of action and choice of
	procedures
	- Showed low level of competence in management, organisational and technical skills
	<ul> <li>Poor and inaccurate presentation of results</li> </ul>
<mark>11-19</mark>	- Some assistance required in the formulation of a plan of action and choice of
	procedures
	- Showed competence in a number of management, organisational and technical skills
	- Appropriate presentation of results
<del>20-25</del>	- Detailed formulation of a plan of action and choice of procedures carried out
	independently
	- Showed a high level of competence in management, organisational and technical skills
	- Accurate, concise and excellently presented results
Nutritional Analysis	(Max. 8 marks)
0-4	- Required considerable help in analysing nutritional value of items prepared for
	practical session
	- Incomplete computation of nutritional value
	- Inappropriate and/or inaccurate presentation of results
<del>5-8</del>	- Worked independently in analysing nutritional value of items prepared for practical
	session session
	- Complete computation of nutritional value
	<ul> <li>Accurate and excellently presented results</li> </ul>
Cost Analysis	(Max. 3 marks)
0-1	- Incomplete shopping list and/or cost of ingredients/materials missing
2-3	- Complete shopping list and accurate calculation of cost of ingredients/materials
<b>Evaluation</b>	(Max. 10 marks)
0-4	- Limited and superficial evaluation with no identification of strengths and limitations
•	for both practical session and experiment
5-8	- Adequate evaluation with some strengths and limitations identified for the practical
<u> </u>	session and experiment
9-10	- Thorough evaluation of both the practical session and experiment
	C The state of the

(Note: Mark obtained by candidate out of 50 marks, divided by 10 will give mark out of 5% which is the weighting of the Food Study Task.)

# APPENDIX IV

# ASSESSMENT CRITERIA FOR THE INVESTIGATION

For an Investigation marked out of 100, the following criteria should be adopted:

•	and Research Techniques (Max. 20 marks
<mark>1-5</mark>	- Needs help to select topic/area and briefly analyses title.
	- Presents a number of themes to be explored in the study without showing depth and
	understanding in presentation of arguments.
	- Requires help in choosing techniques and suggests some relevant aims for each
	technique.
<del>6-13</del>	- Independently selects topic/area and carries out a good analysis of title.
	- Presents a number of themes to be explored in the study, showing good
	argumentation.
	- Chooses techniques independently and presents some relevant aims for each
	technique.
14-20	- Shows creativity in selecting topic/area and presents a detailed title analysis.
	- Presents the main themes to be explored in the study comprehensively, showing very
	good argumentation when analysing and exploring the themes.
	- Chooses techniques independently and presents detailed and relevant aims for each
	technique. Shows clear evidence of understanding of initial research.
Research Design and	Recording of Information (Max. 15 marks)
1-5	- Outlines briefly the advantages and disadvantages of each chosen research technique
	and gives few suggestions on how problems could be overcome.
	- Presents a research chapter which deals with the topic in question, but is not
	sufficiently focused.
	- Limited reference to the local or international situation.
<mark>6-10</mark>	- Presents a discussion of advantages and disadvantages of each chosen research
	technique and gives suggestions on how problems could be overcome.
	- Presents a focused research chapter, which deals with the topic in question, but shows
	inadequate understanding of the research presented.
	- Some reference to the local or international situation.
<mark>11-15</mark>	- Presents a detailed discussion of advantages and limitations of each chosen research
	technique, outlining how the techniques complement one another, and gives practical
	suggestions on how problems could be dealt with.
	- Presents a focused and thorough research chapter, which deals with the topic in
	question and shows clear understanding of the research presented.
	- Makes good reference to the local or international situation.
	on and Implementation of Investigative Techniques (Max. 25 marks
1-8	- Presents a plan of action which is not detailed and which does not mention the most
	important factors which need to be considered during the study.
	- Techniques executed, but not necessarily in an efficient or logical manner and
	sequence. Shows limited planning and preparation for each technique.
	- Limited links between one technique and another.
	- Reports of techniques used are limited, showing that skills related to the use of the
0.16	investigative methods have not been grasped.
<mark>9-16</mark>	- Presents a detailed plan of action, but which does not adequately refer to all the
	important factors which need to be considered during the study.
	- Techniques executed in a relatively efficient and logical manner and sequence,
	showing planning and preparation for each technique.
	- Shows links between one technique and another.
	- Detailed reports of techniques used are presented, showing that skills related to the
17.05	use of investigative methods have been grasped and practised.
17-25	- Presents a detailed plan of action and refers to all the most important factors which
	need to be considered during the study.
	- Techniques executed, in an efficient and logical manner and sequence, showing
	thorough planning and preparation for each technique.
	- Amply presents links between one technique and another.
	- Very detailed reports of techniques used are presented, showing that skills related to
	the use of investigative methods have been grasped and effectively practised.

## APPENDIX IV CONT.

<b>Presentation and Di</b>	scussion of Results (Max. 20 marks)
1-5	<ul> <li>Poor presentation and discussion of findings of each technique.</li> <li>A limited final discussion in which the information obtained through research, knowledge gained through the techniques and personal opinions are poorly presented.</li> </ul>
6-13	<ul> <li>Adequate presentation and discussion of findings of each technique.</li> <li>A good final discussion in which the information obtained through research, knowledge gained through the techniques and personal opinions are adequately presented.</li> </ul>
14-20	<ul> <li>Very good presentation of findings of each technique.</li> <li>A very detailed final discussion in which the information obtained through research, knowledge gained through the techniques and personal opinions are comprehensively presented.</li> </ul>
<b>Evaluation</b>	(Max. 20 marks)
1-5	<ul> <li>Provides a limited assessment of the work undertaken and of the results, and recognises to a basic level the degree to which this furthers the effectiveness of the study.</li> <li>Makes limited reference to possible areas of further study resulting from this piece of work.</li> <li>No or very limited List of References / Bibliography included.</li> </ul>
6-13	<ul> <li>Provides a satisfactory assessment of the work undertaken and of the results, and analyses the contribution these make to the effectiveness of the study.</li> <li>Identifies, giving basic reasons, possible areas of further study resulting from this piece of work.</li> <li>Adequate List of References / Bibliography included.</li> </ul>
14-20	<ul> <li>Provides a critical analysis of the effectiveness of the study and of the course of action from which it developed.</li> <li>Identifies, with thorough justifications, an extensive range of possible areas of further study resulting from this piece of work.</li> <li>Extensive List of References / Bibliography included.</li> </ul>

(Note: Mark obtained by candidate out of 100, divided by 5 will give mark out of 20% which is the weighting of the Investigation.)

APPENDIX V

# **UNIVERSITY OF MALTA**

ADVANCED MATRICULATION EXAMINATION HOME ECONOMICS AND HUMAN ECOLOGY

Coursework - Assessment Sheet - Food Study Task (Paper III part i)

# FOOD STUDY TASK MARK SHEET

This sheet must be completed and signed by the Home Economics and Human Ecology tutor and placed
on top of the candidate's work. A declaration of authenticity signed by the candidate must be attached
to this sheet.

Centre Name:		Ce	ntre Number:	
Candidate's Name:			ndidate's Number:	
Syllabus Number:		 Paj	oer Number: <u>III Part i</u>	
Food Study Task Title:				
		Tutor	Moderator	FINAL
Aims And Design	4 marks			MARK
Implementation And Presentation Of Results	25 marks			
Nutritional Analysis	8 marks			
Cost Analysis	3 marks			
<b>Evaluation</b>	10 marks			
Total Mark	(Max. 50 marks)			
		FIN	AL MARK (max. 5%	o):
AUTHENTICATION by the HOM	E ECONOM	MICS AND H	IUMAN ECOLOGY	TUTOR
I declare that the candidate's activiti knowledge, no assistance has been assessment and has been identified a	ı given apaı	rt from any		
Signature:	Date: _			
Name of Tutor (block letters):	Addre	ess of Tutor:		

APPENDIX VI

# UNIVERSITY OF MALTA ADVANCED MATRICULATION EXAMINATION HOME ECONOMICS AND HUMAN ECOLOGY Coursework – Investigation (Paper IIII part ii)

This shoot must be completed and signed by the		
on top of the candidate's work. A declaration of this sheet.	e Home Economics and Human E of authenticity signed by the can	
Centre Name:	Centre Number:	
Candidate's Name:	Candidate's Number:	
Syllabus Number:		
Title:	Option Area:	
	TUTOR	MODERATOR
Title Analysis, Aims and Research Techniques (20 marks)		
Research Design and Recording of Information (15 marks)		
Planning, Organisation and Implementation of Investigative Techniques (25 marks)		
Presentation and Discussion of Results		
(20 marks)		
Evaluation (20 marks)		
Total Mark (Max. 1	00 marks)	
	FINAL MARK (m	ax. 20%):
AUTHENTICATION by the HOME ECONOM I declare that the candidate's activities have been knowledge, no assistance has been given aparassessment and has been identified and recorded.	kept under regular supervision a rt from any which is acceptabl	nd that, to the best of my
Signature: Date: _		

APPENDIX VII

# UNIVERSITY OF MALTA ADVANCED MATRICULATION EXAMINATION HOME ECONOMICS AND HUMAN ECOLOGY COURSEWORK - FOOD STUDY TASK (Paper III part i

COURSEWORK – <mark>FOOD STUDY TASK</mark> (Paper III part i)	
AUTHENTICATION by CANDIDATE	
I declare that I have produced the work involved without external assistance apart from any which is under the scheme of assessment and is recorded.	acceptable
Signature: Date:	
UNIVERSITY OF MALTA ADVANCED MATRICULATION EXAMINATION HOME ECONOMICS AND HUMAN ECOLOGY COURSEWORK – INVESTIGATION (Paper III part ii)	
AUTHENTICATION by CANDIDATE	
I declare that I have produced the work involved without external assistance apart from any which is under the scheme of assessment and is recorded.	acceptable
Signature: Date:	