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1. INTRODUCTION

Impaq's products and services are aligned with the national curriculum (CAPS).

This document will discuss the various subjects offered by Impaq. Please take note of the subject requirements for successfully completing the FET Phase and qualifying for the National Senior Certificate (NSC), as well as requirements for specific subjects. Lesson material and the language of instruction for these subjects can be selected as either English or Afrikaans. Some subjects are, however, available only in English. These are indicated in the sections below.

Impaq does not currently offer any subjects not listed here.

2. COMPULSORY SUBJECTS

IMPAQ OFFERS THE FOLLOWING LANGUAGE SUBJECTS:

- Afrikaans Huistaal
- English Home Language
- Afrikaans Eerste Addisionele Taal
- English First Additional Language

Please note:

- It is compulsory to take at least one Home Language and one First Additional Language.
- The same language may not be taken as a First Additional Language.

- Practical assessments for this subject may involve additional costs.
- A competent assessor must assess the orals for Grade 10 and 11 language subjects.
- An Impaq-approved assessor must assess the orals for Grade 12 language subjects. It is the responsibility of the guardian to ensure that an Impaq-approved assessor is appointed to assess the orals.
- SACAI may approve the online assessment of oral components via Zoom from year to year, but this cannot be guaranteed. If approval is granted, strict regulations apply. Please send an email to info@impaq.co.za before conducting any assessment via Zoom.

2.1 HOME LANGUAGES

(1/2)

Home languages focus on reinforcing the learner's cognitive academic skills and developing literary, aesthetic and imaginative skills. This will enable the learner to describe, recreate and understand his/her world by figurative meaning. It includes:

- Listening and speaking: Specific information, critical analysis and evaluation, appreciation and interaction.
- Speaking includes the oral tasks for the year.
- Reading and viewing: Interaction with visual texts, vocabulary development, sentence construction, organisation of texts, literary texts and understanding.
- Writing and presenting: Planning, writing a concept, reviewing, proofreading and presenting.
- Language structures and conventions.

Continues on page 3



2.1 HOME LANGUAGES

(2/2)

RECOMMENDED TIME

LEARNING OUTCOME	RECOMMENDED TIME
Reading and viewing, literary works	Approximately 2 hours per week
Writing and presenting	Approximately 2 hours per week
Listening and speaking	Approximately 30 minutes per week

Language structures and conventions are integrated within the time allocation of all the above skills.

GRADE 10 AND 11 EXAMINATIONS

Paper 1: Reading comprehension, summary, language structures and conventions.

Paper 2: Literature.

Paper 3: Writing (November examination only).

Paper 4: Orals (please refer to information on assessors above).

GRADE 12 EXAMINATION

Paper 1: Reading comprehension, summary, language structures and conventions.

Paper 2: Literature.

Paper 3: Writing (preliminary and NSC examination only).

Paper 4: Orals (please refer to information on assessors above).

Assessor requirements: the assessor must be a qualified language teacher with a SACE number and a minimum of 2 years' experience teaching the subject in the FET Phase.

2.2 FIRST ADDITIONAL LANGUAGES

The objective of first additional languages is to facilitate communication skills. The learner is taught to be comfortable with the language as a medium of instruction and learning, to understand it, and to use it. It includes:

- Listening and speaking
- Reading and viewing
- Writing and presenting
- Language structures and conventions

RECOMMENDED TIME

LEARNING OUTCOME	RECOMMENDED TIME
Reading and viewing	Approximately 2 hours per week
Language structures and conventions	Approximately 1 hour per week
Writing and presenting	Approximately 1 hour per week
Listening and speaking	Approximately 30 minutes per week

GRADE 10 AND 11 EXAMINATIONS

Paper 1: Reading comprehension, summary, language structures and conventions.

Paper 2: Literature.

Paper 3: Writing (November examination only).

Paper 4: Orals (please refer to information on assessors above).

GRADE 12 EXAMINATION

Paper 1: Reading comprehension, summary, language structures and conventions.

Paper 2: Literature.

Paper 3: Writing (preliminary and NSC examination only).

Paper 4: Orals (please refer to information on assessors above).

Assessor requirements: the assessor must be a qualified language teacher with a SACE number and a minimum of 2 years' experience teaching the subject in the FET Phase.

2.3 LIFE ORIENTATION

Life Orientation (LIO) is a compulsory subject for all Grade 10, 11 and 12 learners.

Life Orientation guides and prepares learners for life and its possibilities and enables them to live meaningfully and successfully in a rapidly changing and transforming society. Life Orientation also guides learners in making informed decisions about their health, environment, subject choices, further studies, and careers.

LEARNING AREAS INCLUDE:

- Development of the self in society
- Social and environmental responsibilities
- Democracy and human rights
- Careers and career choices
- Study skills
- Physical Education

RECOMMENDED TIME

Approximately 2 hours per week.

EXAMINATION

One paper covering all subject content.

3. MATHEMATICS (SOMETIMES REFERRED TO AS PURE MATHS)

Mathematics is a compulsory subject for South African learners in the FET Phase. Learners may choose between Mathematics and Mathematical Literacy. Learners may not choose both subjects – they must select one or the other.

3.1 MATHEMATICAL LITERACY

Mathematical Literacy (MAL) is concerned with commonplace problems such as budgeting and interest calculations. In short, it is an 'everyday' kind of Mathematics. It creates an opportunity for the learner to analyse problems and devise methods to work mathematically and develop mathematical content and context competency to solve problems mathematically.

IT INCLUDES:

- The use of elementary mathematical content.
- Original true-to-life context of Mathematics.
- Solutions of familiar and unfamiliar problems.
- Decision-making and communication.
- The use of integrated content and/or skills to solve problems.
- The focus is on how to approach the problem and how to solve it.

LEARNING AREAS INCLUDE:

- Numbers and calculations with numbers
- Patterns, relationships and representations
- Finances
- Measurements
- Maps, plans and other representations of the physical world
- Data handling
- Probability

EQUIPMENT

A non-programmable scientific calculator.

RECOMMENDED TIME

Approximately 4½ hours per week.

GRADE 10 AND 11 EXAMINATION

Paper 1: Consists of Level 1 – Level 4 cognitive levels.
Topics include: Finance, data handling, and probability.

Paper 2: Consists of Level 1 – Level 4 cognitive levels.
Topics include: Maps, plans and other representations of the physical world, measurement, and probability.

GRADE 12 EXAMINATION

Please note: Amendments to the below structures are expected in 2022.

Paper 1: Consists of all the work and includes the following levels of taxonomy:

- Level 1: Knowing.
- Level 2: Applying routine procedures in familiar contexts.
- Level 3: Applying multi-step procedures in a variety of contexts.

Paper 2: Consists of all the work (application paper including both familiar and unfamiliar contexts) and includes the following levels of taxonomy:

- Level 2: Applying routine procedures in familiar contexts.
- Level 3: Applying multi-step procedures in a variety of contexts.
- Level 4: Reasoning and reflecting.

PRO: Mathematical Literacy enables learners to use numbers to solve real-world problems and equips them with the ability to interpret and critically analyse everyday situations.

CON: Depending on the career path chosen, it may be more challenging to get accepted into specific university degree courses such as accounting, medicine, engineering, physics, chemistry, veterinary sciences and information technology.

3.2 MATHEMATICS (SOMETIMES REFERRED TO AS PURE MATHS)

Mathematics is the study of numbers and shapes and the relationships between them. It is a language that attempts to describe the world in abstract terms that can be modified and, therefore, often simplified in this language. Therefore, one can give the learner of Mathematics insight, circumspection, foresight, and a measure of control in those areas of reality that can be so described.

IT INCLUDES:

- | | | | |
|------------------------|-------------------------|-----------------------|----------------------|
| • Algebra | • Calculus | • Probability | • Trigonometry |
| • Functions and graphs | • Number patterns | • Statistics | • Euclidean geometry |
| | • Financial Mathematics | • Analytical geometry | • Measurement |

PRO: Mathematics is one of the most important subjects for university degree purposes for two reasons: It forms the basis for most scientific degrees and is fundamental to most commercial degrees. It is one of the most challenging subjects, and learners who perform well in Mathematics show evidence of hard work and insight into critical thinking and problem-solving. Mathematics, however, is not only taught to prepare learners for university but rather to teach learners invaluable cognitive skills that can be applied to almost any sphere of life.

CON: As learners of Mathematics are provided with the opportunity to develop their insight, circumspection, foresight, and a measure of control in areas of reality that can be so described, it can become challenging in a number of ways. The need for additional assistance, for example, a tutor might be required to master the subject.

EQUIPMENT

A non-programmable scientific calculator.

RECOMMENDED TIME

Approximately 4½ hours per week.

EXAMINATION

Paper 1:

- | | |
|------------------------|-------------------------|
| • Algebra | • Financial Mathematics |
| • Functions and graphs | • Probability |
| • Calculus | • Logarithms |
| • Number patterns | • Ration and rate |
| | • Number systems |

Paper 2:

- | | |
|-----------------------|---------------------------|
| • Statistics | |
| • Analytical geometry | |
| • Trigonometry | • Measurement |
| • Euclidean geometry | • Transformation geometry |

4. ELECTIVE SUBJECTS (CHOOSE AT LEAST THREE)

4.1 ACCOUNTING (ACC)

Accounting is concerned with the completion of source documents for sole proprietors up to the completion of financial statements of small businesses, partnerships, public companies, and manufacturing companies. Complete accounting records are completed from Grade 8 to 12.

LEARNING AREAS INCLUDE:

- Financial accounting
- Management accounting
- Internal auditing and control

EQUIPMENT

A non-programmable scientific calculator.

RECOMMENDED TIME

Approximately 4 hours per week.

GRADE 10 EXAMINATIONS

June examination: Only one paper.

November examination:

Paper 1 – Discipline 1 – Financial reporting and evaluation.

Paper 2 – Discipline 2 – Managerial accounting, internal auditing, and control

GRADE 11 EXAMINATIONS

June and November examination:

Paper 1 – Discipline 1 – Financial reporting and evaluation.

Paper 2 – Discipline 2 – Managerial accounting, internal auditing, and control

GRADE 12 EXAMINATIONS

June, preliminary, and final examination: Only one paper.

Please note: It is highly recommended to take Mathematics with Accounting.

4.2 AGRICULTURAL SCIENCES (AGS)

1 of 2

Agricultural Sciences is the study of the relationship between soils, plants, and animals in the production and processing of food, fibre, fuel and other agricultural commodities that have an economic, aesthetic, and cultural value. The main topics in the Agricultural Sciences curriculum include soil science.

RECOMMENDED TIME

Approximately 4 hours per week.

4.2 AGRICULTURAL SCIENCES (AGS)

2 of 2

EXAMINATIONS

Grade 10:

- Paper 1: Agricultural ecology, agricultural industry, zoology.
- Paper 2: Edaphology (soil science), plant studies, sustainable natural resource usage, basic genetic and biological concepts.

Grade 11:

- Paper 1: Basic agricultural chemistry, edaphology (soil science).
- Paper 2: Plant studies and sustainable natural resource usage.

Grade 12:

- Paper 1: Animal nutrition, animal reproduction, conservation and control.
- Paper 2: Agricultural management and marketing, production factors, basic genetics and biological concepts.

Please note: Taking Mathematics with Agricultural Sciences is not compulsory, but if a learner wants to study BSc Agricultural or Veterinary Sciences, Mathematics will be required. Learners must ensure that they know what the Mathematics requirements are for further study at tertiary institutions.

4.3 AGRICULTURAL MANAGEMENT PRACTICES (AMP)

Agricultural Management Practices is the study and application of production, economic, and management principles that are used in the cultivation, transformation, and marketing of food and other agricultural products.

LEARNING AREAS INCLUDE:

- Crop production and management
- Soil and water management
- Harvesting products and quality control
- Animal production and management aspects
- Farm management and evaluation

- Value-adding, processing and producer organisations
- Agritourism, business planning and entrepreneurship

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

Paper 1: All subject content.

PAT: Must be assessed by a farmer/veterinarian.

Please note:

- Practical assessments for this subject may involve additional costs.
- Access to a farm is required for compulsory practical work. Impaq does not provide access to a farm.
- Learners must be exposed to, and be part of, practical activities on a farm or active production enterprise for at least 40 hours per year.
- A competent assessor must assess the assessments for Agricultural Management Practices.
- It is the responsibility of the guardian to ensure that the assessment is assessed by a competent assessor, as described in the section below.

A competent assessor for Agricultural Management Practices must adhere to the following requirements:

- A CV of the farmer or veterinarian (who will be assessing the assessments) must be submitted together with the components as specified in the PAT, as well as the following information:
 - The farmer must have been operating the farming enterprise for at least five (5) years.
 - Any additional qualifications/courses the farmer has done.
 - If the competent assessor is a veterinarian, their qualification, practice number, and the number of years they have operated their practice must be submitted.

4.4 BUSINESS STUDIES (BUS)

Business Studies builds on the basic skills and concepts that are taught as part of Economic and Management Sciences in Grades 8 and 9. It is a very practical subject and relates directly to the real business world and current affairs. Learners are expected to read newspapers, watch the news, and carry out practical work such as analysing articles and case studies, running entrepreneurial businesses, compiling their own CVs, practising their interviewing skills, studying the art of marketing, and learning more about the practical components surrounding production.

LEARNING AREAS INCLUDE:

- Business environments
- Business roles
- Business ventures
- Business operations

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATIONS

Grade 10 – 12 June examination: One paper covering subject content from Term 1 and Term 2.

Grade 10 and 11 November examination:

Paper 1: Business environments and business operations.

Paper 2: Business ventures and business roles

Grade 12 preliminary and final examination:

Paper 1: Business environments and business operations.

Paper 2: Business ventures and business roles.

4.5 DRAMATIC ARTS (DRA)

Dramatic Arts is the study of the representation of the human experience in dramatic form for an audience. This study integrates practical components and competencies with the theoretical study of the arts. It aims to promote and develop creativity as a rich, diverse and productive resource through dramatic communication, interaction, and representation. Learners explore how dramatic and theatrical elements are selected and combined for particular purposes within various contexts, with a focus on the role of the dramatic arts in South Africa.

LEARNING AREAS INCLUDE:

- Personal resource development
- Acting and presentation
- Performance texts in context
- Theatre and/or film production

Learners must only choose this subject if they have a love for performing, being on stage in front of an audience and have some degree of technical ability and talent. This subject requires learners to perform in costume and make use of props and decor at times, which may result in additional costs.

RECOMMENDED TIME

Approximately 4 hours per week, plus additional rehearsal time for practical performances.

EXAMINATION

Paper 1: Theory

Paper 2: Practical

Please note:

- Dramatic Arts is available only in English.
- Practical assessments for this subject may involve additional costs in terms of products and resources.
- A competent assessor must assess the Dramatic Arts PATs for Grade 10 and 11.
- For Grade 12, Dramatic Arts must be assessed by an Impaq-approved assessor.
It is the responsibility of the guardian to ensure that this assessment is assessed by an approved assessor.

Assessor requirements: the assessor must be a qualified teacher with a SACE number and a minimum of 3 years' experience in teaching Dramatic Arts as a subject, or a relevant Dramatic Arts qualification.

4.6 PHYSICAL SCIENCES (PHS)

Physical Sciences investigates physical and chemical phenomena, which is done through scientific inquiry and application of scientific models, theories, and laws to explain and predict events in the physical environment.

LEARNING AREAS INCLUDE:

Physics:

- Mechanics
- Waves, sound and light
- Electricity and magnetism
- Matter and materials (Physics focus)

Chemistry:

- Matter and materials
- Chemical systems
- Chemical change

RECOMMENDED TIME

Approximately 4 hours per week

EQUIPMENT

A scientific calculator is compulsory.

EXAMINATION

Paper 1: Physics

Paper 2: Chemistry

PRACTICAL

Practical activities are an integral part of the teaching-learning process of Physical Sciences. The practical work is integrated with the theory and strengthen the concepts of teaching. Practical work may take the form of simple, practical demonstrations or an experiment or practical investigation that can be done with household appliances and chemicals where possible; however, experiments can only be done with scientific apparatus and chemicals that might result in additional costs.

Please note: It is **compulsory** to take Mathematics with Physical Sciences.

4.7 VISUAL ARTS (VIA)

1 of 2

Visual Arts refers to a broad field of creative practices that involve the hand, the eye, the intellect, and the imagination in conceptualising and crafting two-dimensional and three-dimensional artworks that reflect the aesthetic, conceptual and expressive thinking of individuals or groups.

Visual Arts offers learners a way to meaningfully engage with and respond to their world. It provides opportunities to stimulate and develop learners' intellect, engaging their creative imagination through visual and tactile experiences and the innovative use of materials and technology in the realisation of their ideas.

The above provides the basis for learners to develop an individual visual language and line, which is informed and shaped by immersion in the visual culture of the past and present. Learners acquire the capacity to make practical and aesthetic decisions in the development of a coherent body of work and become actively involved in shaping physical, social and cultural environments.

Learners must only choose this subject if they have a love for drawing, painting and creating and have some degree of technical ability and talent.

LEARNING AREAS INCLUDE:

- Conceptualising through development and realisation of creative ideas.
- Making creative artworks, managing the process and presenting them with safe practices.
- Emphasising visual literacy

4.7 VISUAL ARTS (VIA)

2 of 2

RECOMMENDED TIME

Approximately 4 hours per week of contact time with a facilitator. Additional hours needed to complete practical work.

EXAMINATION

June Examination: Paper 1: Theory
Preliminary/November/Final Examination:

- Paper 1: Theory
- Paper 2: Practical

RETROSPECTIVE EXHIBITION:

This is the final PAT mark and is mandatory. Learners may make use of the Impaq-organised exhibition in Gauteng OR use an approved assessor to assess their own exhibition (arranged by the parent). Please note: There are additional costs involved with these assessments.

Please note:

- Practical assessments for this subject involve additional costs.
- A competent assessor must assess the Visual Arts PATs for Grade 10 and 11.
- For Grade 12, Visual Arts must be assessed by an Impaq-approved assessor. It is the responsibility of the guardian to ensure that an approved assessor assesses this assessment.

Assessor requirements: the assessor must be a qualified teacher with a SACE number and a minimum of 3 years' experience in teaching Visual Arts as a subject, or a relevant Visual Arts qualification.

4.8 GEOGRAPHY (GEG)

Geography is a science that studies physical processes, human processes, and spatial patterns on Earth in an integrated way. It examines the geographical distribution of people and their activities, physical and manmade features, ecosystems, interactions between humans, and interactions between humans and the environment in a dynamic context.

LEARNING AREAS INCLUDE:

- Physical geography – natural processes and characteristics, the atmosphere, landforms and ecosystems, including mapwork.
- Human geography – activities and the impact of humans on the earth.

THE CONCEPTUAL FRAMEWORK INCLUDES:

- Place
- Spatial processes
- Spatial and distribution patterns
- Human and environmental interaction

EQUIPMENT

- A non-programmable scientific calculator.
- Mathematical instruments, e.g. The Helix Oxford Set of Mathematical Instruments.
- A world atlas.

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Theory
- Paper 2: Mapwork

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4.9 INFORMATION TECHNOLOGY (IT)

Information Technology is the study of various interrelated physical and non-physical technologies used in the capturing of data, the processing of data into useful information, and the management, presentation, and dissemination of data. Information Technology studies the activities that deal with the solution of problems through logical and computational thinking. It includes the physical and non-physical components for the electronic transmission, access, and manipulation of data and information.

All aspects of programming in Delphi are covered, as well as the development of databases.

THE EMPHASIS IS ON

- Solution development
- Communication technologies
- Systems technologies
- Internet technology
- Data and information management
- Social implications

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Practical
- Paper 2: Theory
- PAT: Written and software development component (three phases).

PRACTICAL INDUSTRY HOURS

Practical industry hours with a certificate of proof is beneficial to a learner applying to a tertiary institution. We recommend 50 hours per year, but this is not compulsory. Impaq acknowledges industry hours with a certificate if proof is submitted.

COMPUTER SPECIFICATIONS

Learners will require constant access to a computer due to the fact that a major part of Information Technology comprises programming, and learners will spend a considerable amount of time working on a computer. Internet access is required.

SOFTWARE

Windows 10

MS Word, MS Excel, MS Outlook, MS PowerPoint, and MS Access

- Microsoft Office 365 academic student licence (desktop install). Impaq supplies this licence as part of your package price.
- Set up of the account may take up to three (3) working days from the date of registration.
- The account will be activated in January of the academic year.

Delphi 2010

- The software must be purchased at the client's own cost. Delphi is an Embarcadero product. Please click the link for more information: <https://www.embarcadero.com/>.
- Impaq does not supply technical support on the product. Subject specialists provide only subject-specific support.

Security software (antivirus)

The equipment must be purchased at the client's own cost and is not provided by Impaq.

HARDWARE

- Dual Core CPU or higher.
- 32 GB internal storage space.
- 4 GB RAM or higher.
- High-resolution screen/monitor.
- Keyboard and mouse.
- USB port.

Please note:

- Information Technology is **available only in English**.
- It is highly recommended that learners take Mathematics with Information Technology.
- Practical assessments for this subject may involve additional costs.
- Parents and tutors can assess the Grade 10 and 11 Information Technology practical assessment tasks (PATs). However, it is strongly advised that you make use of a competent assessor to assess the PATs or submit the PATs to Impaq for assessment. Impaq marks all Grade 12 components. The assessment components must be submitted to Impaq on a CD or flash drive.
- As per the above specifications, Delphi 10 (the programming language used by Grade 10, 11, and 12 learners) is required. Previous programming languages have been removed from the CAPS curriculum. The Delphi licences will only be available to registered Impaq learners for 2022, but the licences need to be renewed annually. Please send an email to delphi.licenses@impaq.co.za for more information.



4.10 ECONOMICS (ECO)

Economics is the study of how individuals, businesses, governments, and other organisations within our society choose to use scarce resources to satisfy their numerous needs and wants in a manner that is efficient, equitable, and sustainable.

LEARNING AREAS INCLUDE:

- Macroeconomics
- Microeconomics
- Economic pursuits
- Contemporary economic issues

RECOMMENDED TIME

Approximately 4 hours per week

EXAMINATION

- Paper 1: Macroeconomics and economic pursuits
- Paper 2: Microeconomics and contemporary economic issues

4.11 ENGINEERING GRAPHICS AND DESIGN (EGD)

1 of 2

Engineering Graphics and Design teaches internationally acknowledged principles that have both academic and technical applications. The emphasis in EGD is on teaching specific basic concepts, as well as various drawing techniques and skills so that EGD learners will be able to interpret and produce drawings within the contexts of mechanical technology, civil technology and electrical technology.

LEARNING AREAS INCLUDE:

- Drawing principles
- Free-hand drawings
- Setting up of a drawing sheet
- Geometrical construction
- Scales
- Orthographic projections
- Descriptive geometry
- Solid geometry
- Mechanical drawings
- Civil drawings
- Isometric drawings
- Perspective drawings
- Electrical drawings
- Interpenetration
- Developments
- Loci of a helix, cams and mechanisms
- The design process
- Computer-assisted drawings (CAD) (optional)

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Civil drawings in first-angle orthographic projection
- Paper 2: Mechanical drawings in third-angle orthographic projection.
- Practical Assessment Task (PAT)

PRACTICAL INDUSTRY HOURS

Practical industry hours with a certificate of proof is beneficial to a learner applying to a tertiary institution. We recommend 50 hours per year, but this is not compulsory. Impaq acknowledges industry hours with a certificate if proof is submitted.

EQUIPMENT

- A3 drawing board with T-square
- Masking tape
- 0.3 or 0.5 clutch pencil (pacer) with 2H lead
- Eraser (soft and white)
- Ruler/Scale ruler
- 30°/60° Set square (NB: NOT A MATH SET'S SET SQUARE)
- 45° Set square (NB: NOT A MATH SET'S SET SQUARE)
- Drawing compass with an adjustment wheel (NB: NOT A MATH SET'S COMPASS)
- Circle stencil
- French curves OR flexi curve/ruler
- Divider (can be bought with a drawing compass as a set)
- Small protractor
- Dust cloth
- Calculator
- A3 drawing sheets for all PAT drawings
- CAD software and CAD 2D course (Only optional CAD drawings with the PAT)
 - Free CAD programs include:
 - Solid Edge (<https://esteq.co.za>)
 - Double CAD (<http://www.doublecad.com>)

4.11 ENGINEERING GRAPHICS AND DESIGN (EGD)

2 of 2

Please note:

- It is highly recommended to take Mathematics with EGD.
- All equipment and CAD software (optional) must be purchased at the clients' own cost and is not supplied by Impaq.
- From 2022 onwards, there will be a prescribed grade-specific study guide (textbook) for EGD.
- Please refer to the study notes available for download from the Optimi Learning Portal for important information regarding EGD.

4.12 TOURISM (TOU)

Tourism is the study of the activities, services, and industries that deliver a travel experience to groups or individuals. It is the study of the expectations and behaviours of tourists, and the economic, social, and environmental impact of tourism on South Africa.

LEARNING AREAS INCLUDE:

- The tourism sector
- Mapwork and tour planning
- Tourist attractions
- Sustainable and responsible tourism
- Domestic, regional and international tourism
- Culture and heritage tourism
- Foreign exchange
- Communication and customer care
- Marketing

RESOURCES

- Access to a variety of tourism magazines, brochures, tourist maps and advertising booklets such as hotel brochures, booklets and maps of South Africa's national parks (SANParks).
- A political map of the world and a time zone map with the major cities of the world.
- Access to the White Paper on the Promotion and Development of Tourism in South Africa (1996).
- The latest version of the Tourism Growth Strategy.

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Theory
- PAT: Written task (two phases).

PRACTICAL INDUSTRY HOURS

Practical industry hours with a certificate of proof is beneficial to a learner applying to a tertiary institution. We recommend 50 hours per year, but this is not compulsory. Impaq acknowledges industry hours with a certificate if proof is submitted.

4.13 HISTORY (HIS)

This subject examines aspects of South African, African and International history such as segregation, Apartheid, the South African War, colonialism, nationalism around the world, World War I, World War II, the Cold War, civil resistance in the USA, and the consequences and impact of various historical events on society. Learners are required to do extensive writing, such as paragraphs and essays.

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Grade 10: One paper during the June Examination and one paper during the November Examination.
- Grade 11: One paper during the June Examination and two papers during the November Examination.
- Grade 12: Two papers during the June/Preliminary/Final Examination.

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4.14 COMPUTER APPLICATIONS TECHNOLOGY (CAT)

Computer Applications Technology (CAT) is the study of the integrated components of a computer system (hardware and software), and practical techniques designed to make their use and application efficient to solve everyday problems. The solutions to problems are designed, managed and processed via end-user applications, and communicated using appropriate information and communication technologies (ICTs). ICTs are the combination of networks, hardware, and software, as well as the means of communication, collaboration, and engagement that enable the processing, management, and exchange of data, information, and knowledge.

LEARNING AREAS INCLUDE:

- Solution development
- Systems technologies
- Internet technologies
- Network technologies
- Information management
- Social implications

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Practical
- Paper 2: Theory
- PAT

PRACTICAL INDUSTRY HOURS

Practical industry hours with a certificate of proof is beneficial to a learner applying to a tertiary institution. We recommend 50 hours per year, but this is not compulsory. Impaq acknowledges industry hours with a certificate if proof is submitted.

SOFTWARE

Windows 10

MS Word, MS Excel, MS Outlook, MS PowerPoint, and MS Access

- Microsoft Office 365 academic student licence (desktop install). Impaq supplies this licence as part of your package price.
- Set up of the account may take up to three (3) working days from the date of registration.
- The account will be activated in January of the academic year.

Notepad ++

- Freeware available online.

Security software (antivirus)

The equipment must be purchased at the client's own cost and is not provided by Impaq.

Please note:

- Practical assessments for this subject may involve additional costs.
- Parents and tutors can assess the Grade 10 and 11 Computer Applications Technology practical assessment tasks (PATs). However, it is strongly advised that you make use of a competent assessor to assess the PATs or submit the PATs to Impaq for assessment. Impaq marks all Grade 12 assessment components. The assessment components must be submitted to Impaq on a CD or flash drive.

4.15 CONSUMER STUDIES (CSS)

Consumer Studies teaches learners about responsible and informed consumer behaviour with respect to food, clothing, housing, furnishings, and household equipment. Consumer Studies aims to teach learners how to make informed decisions and how to make optimal use of resources to improve human wellbeing. In the practical component of the subject, learners have an opportunity to produce and market different products.

LEARNING AREAS INCLUDE:

- The consumer
- Food and nutrition
- Design elements and principles
- Fibres and fabrics
- Clothing
- Housing
- Entrepreneurship

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Theory
- PAT: Food production

PRACTICAL INDUSTRY HOURS

Practical industry hours with a certificate of proof is beneficial to a learner applying to a tertiary institution. We recommend 50 hours per year, but this is not compulsory. Impaq acknowledges industry hours with a certificate if proof is submitted.

INFRASTRUCTURE

Please note that the following applies to school kitchens, but home-educated learners can adapt it to a smaller kitchen, e.g. a home kitchen with basic apparatus.

- **Training kitchen:**
 - Required clothing for a chef.
 - Six stoves to accommodate 24 learners (four learners per stove).
 - Built-in double sinks.
 - Cupboards or open shelves.
 - Hot and cold water supply at the sinks.
 - Electricity supply to the stoves, and wall plugs at each workstation for electrical equipment.
 - Supply of electricity must be sufficient for all stoves and other electrical equipment to operate simultaneously.
 - A storeroom for ingredients and a storeroom for equipment.
 - A walk-in fridge or cold room.
 - An office is suggested, leading off the kitchen, with a telephone (for orders) and a computer and printer (for labels, etc.).
 - Burglar proofing at all the windows and doors of the kitchen, or an alarm system.
 - A classroom is needed for the teaching of theory, as the training kitchen is not suitable for use as a classroom.
 - Ensuring security and safety on the school premises after school hours is important if the PATs are done outside normal school hours.
 - Basic apparatus for the measuring, preparation, and cooking of ingredients.

Please note:

- Practical assessments for this subject involve additional costs for equipment and ingredients.
- For Grade 10, 11 and 12, Consumer Studies must be assessed by a Consumer Studies Impaq-approved assessor. It is the responsibility of the guardian to ensure that an approved assessor assesses this assessment.
- **Consumer Studies and Hospitality Studies may not be taken together.** Learners must select one or the other.
- You will only receive a chef's uniform in Grade 10.
- Should SACAI approve online assessment via Zoom, we recommend that learners make use of this option. Please send an email to info@impaq.co.za for more information.

Assessor requirements: the assessor must be a qualified teacher with a SACE number and a minimum of 3 years' experience in teaching Consumer Studies/Hospitality Studies/Home Economics as subjects at a Grade 12 level.

Hospitality Studies covers theoretical and operational aspects of food and beverage preparation and service, incorporating the principles of safety, hygiene, and environmental awareness. It provides learners with an understanding of the various sectors and diverse contexts that comprise the hospitality industry.

Hospitality Studies will give learners the skills and knowledge, as well as teach them about the attitudes and values, that are related to real-world situations within the food and beverage industry. The integrated competencies that are covered in this subject will enhance the quality of life of the learners and others by providing the necessary resources for successful operation in the hospitality field, including small, medium, and micro enterprises (SMMEs), and community-based operations.

LEARNING AREAS INCLUDE:

- Hospitality sectors and careers
- Kitchen and restaurant operations
- Nutrition, menu planning and cost calculation
- Food commodities
- Food and beverage service
- Hygiene, safety and security

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATION

- Paper 1: Theory
- PAT: 1 and 2

PRACTICAL INDUSTRY HOURS

50 hours per year, but not compulsory. Impaq acknowledges industry hours with a certificate if proof is given on the prescribed form.

INFRASTRUCTURE

Please note that the following applies to school kitchens, but home-educated learners can adapt it to a smaller kitchen, e.g. a home kitchen with basic apparatus.

- **Training kitchen:**
 - Required clothing for a chef.
 - Six stoves to accommodate 24 learners (four learners per stove).
 - Built-in double sinks.
 - Cupboards or open shelves.
 - Hot and cold water supply at the sinks.
 - Electricity supply to the stoves, and wall plugs at each workstation for electrical equipment.
 - Supply of electricity must be sufficient for all stoves and other electrical equipment to operate simultaneously.
 - A storeroom for ingredients and a storeroom for equipment.
 - A walk-in fridge or cold room.
- **Dining area – preferably leading off the kitchen:**
 - Required clothing for waiters.
 - The location of the food service training facility should have public access.
 - Issues such as signage, parking, lighting for night access and security should also be considered.
 - Toilet facilities for guests are compulsory.
- **An office is suggested, leading off the kitchen, with a telephone (orders) and a computer and printer (for labels, etc.):**
 - Burglar proofing at all the windows and doors of the kitchen, or an alarm system.
 - A classroom is needed for the teaching of theory, as the training kitchen is not suitable for use as a classroom.
 - Ensuring security and safety on the school premises after school hours is important if the PATs are done outside normal school hours.

4.16 HOSPITALITY STUDIES (HOS)

2 of 2

Please note:

- Practical assessments for this subject involve additional costs for equipment and ingredients.
- For Grade 10, 11 and 12, Hospitality Studies must be assessed by a Hospitality Studies Impaq-approved assessor. It is the responsibility of the guardian to ensure that an approved assessor assesses this assessment.
- **Consumer Studies and Hospitality Studies may not be taken together.** Learners must select one or the other.
- You will only receive a chef's uniform in Grade 10.
- Should SACAI approve online assessment via Zoom, we recommend that learners make use of this option. Please send an email to info@impaq.co.za for more information.

Assessor requirements: the assessor must be a qualified teacher with a SACE number and a minimum of 3 years' experience in teaching Hospitality Studies/Home Economics as subjects at a Grade 12 level.

4.17 LIFE SCIENCES (LIS)

1 of 2

Life Sciences is the study of life at various levels of organisation and is comprised of a variety of sub-disciplines, or specialisations, such as biochemistry, biotechnology, microbiology, genetics, zoology, botany, entomology, physiology (plant and animal), anatomy (plant and animal), morphology (plant and animal), taxonomy (plant and animal), environmental studies, and socio-biology (animal behaviour). All these sub-disciplines are introduced in varying degrees to provide a broad overview of the subject.

The three primary reasons for taking Life Sciences are to provide useful knowledge and skills that are needed in everyday life, to expose learners to the scope of biological studies to stimulate interest in – and create awareness of – possible specialisations, and to provide sufficient background for further studies in one or more of the biological sub-disciplines.

LEARNING AREAS INCLUDE:

- Biochemistry and biotechnology
- Microbiology and genetics
- Zoology and botany
- Entomology and physiology (plant and animal)
- Anatomy (plant and animal) and morphology (plant and animal)
- Scientific classification (plant and animal)
- Environmental studies and socio-biology (animal behaviour)
- Taxonomy (plant and animal)
- Palaeontology

RECOMMENDED TIME

Approximately 4 hours per week.

EXAMINATIONS

Grade 10 – 12 June examination: Only ONE paper that covers all the content done in Term 1 and 2.

Grade 10 November examination:

Paper 1 (2½ hours – 150 marks):

- Chemistry of life
- Cells: Basic units of life
- Cell division: Mitosis
- Plant and animal tissues
- Plant organs (leaf)
- Support and transport systems in plants
- Support systems in animals

Paper 2 (2½ hours – 150 marks):

- Transport systems in mammals
- Biosphere to ecosystems
- Biodiversity and classification
- History of life on Earth

Grade 11 November examination:

Paper 1 (2½ hours – 150 marks):

- Energy transformations to sustain life: Photosynthesis
- Animal nutrition
- Energy transformation: Respiration
- Gas exchange
- Excretion in humans

Paper 2 (2½ hours – 150 marks):

- Biodiversity and classification of micro-organisms
- Biodiversity in plants and reproduction
- Biodiversity of animals
- Human impact on the environment: Current crises
- Population ecology

Grade 12 final examination:

Paper 1 (2½ hours – 150 marks):

- Meiosis
- Vertebrate reproductive strategies
- Human reproduction
- Responding to the environment (humans)
- Human endocrine system
- Homeostasis in humans
- Responding to the environment (plants)
- Human impact on the environment (Grade 11)

Paper 2 (2½ hours – 150 marks):

- DNA: Code of life
- Meiosis
- Genetics and inheritance
- Evolution

Please note: It is recommended that Mathematics is taken with Life Sciences but it is not compulsory.

5. TAKING MORE THAN SEVEN SUBJECTS

If a learner wishes to take more than the required seven subjects, he/she must complete all the necessary work, including portfolio work, from Grade 10. The learner must pass each additional subject before he/she can continue with that subject in the next grade. Only two additional subjects are allowed.

If a learner has already sat the National Senior Certificate (NSC) Examination (Grade 12), two additional subjects are allowed. The Grade 10 and 11 materials for the subjects must be acquired and worked through to provide the learner with an understanding of each subject's fundamental principles. However, it is not a requirement for learners to formally complete Grades 10 and 11 in the applicable subject through Impaq.

6. SUBJECTS THAT ARE TAKEN THROUGH ANOTHER INSTITUTION

We do not facilitate any arrangements or fees for subjects not taken through Impaq. You must ensure that the institution selected follows the CAPS curriculum. You must also make the necessary arrangements with SACAI. We do not recommend that learners register with more than one examination board as it might result in clashes in the examination timetable. If this should happen, the learner will be unable to write certain question papers.

7. ADDING OR REMOVING SUBJECTS

A learner's registered subjects may be reduced by cancelling subject(s) or increased by registering for additional subject(s) at the discretion of the parent. Conditions apply.

Learners who wish to complete their NSC must be registered with an assessment body overseen by Umalusi. Umalusi is the council for quality assurance in general and further education and training. Umalusi accredits private providers of education and training, as well as private assessment bodies which offer tuition and/or assessment for qualifications. As such, three central assessment bodies are overseen by Umalusi: The Department of Basic Education (DBE), the Independent Examination Board (IEB), and SACAI (South African Comprehensive Assessment Institute). Public schools are mainly registered with the DBE, and independent schools are predominantly registered with the IEB. Impaq is registered with SACAI and learners in the FET Phase are registered with SACAI.

Candidates who successfully complete their Grade 12 year with Impaq and comply with the relevant assessments and other related requirements, will receive the National Senior Certificate from Umalusi. When registering with Impaq for Grade 12, the candidate is considered a part-time candidate and is registered as such with the assessment body.

If the PAT component is not completed, learners will not receive their final results. The PAT components account for 25% of the final year mark.

8. SUPPLEMENTARY PRODUCTS/SUBJECTS

Impaq offers a comprehensive range of supplementary products and additional resources, including:

Resolute Robotics

Learners can upgrade their 21st Century Skills with Resolute Robotics. The programmes focus on creating and building real-world projects such as self-driving cars. Resolute Robotics is not a subject that can be examined and, as such, does not qualify as one of the three to five subjects that a learner must take.

Career Compass

Career Compass can help learners choose the right career path. Learners complete a 30-minute online questionnaire to match their personality types with compatible work environments.

10 Habits of Successful Learners programme

The 10 Habits of Successful Learners programme helps learners develop brain-based study skills and a positive learning attitude. This innovative programme includes five video sessions and a workbook for learners and five video sessions, and a guide to help parents support the learner.

For more information on these supplementary products, please visit the Optimi Plus store at www.optimiplus.co.za.



impaq.

9. WHAT IS AN INVIGILATOR?

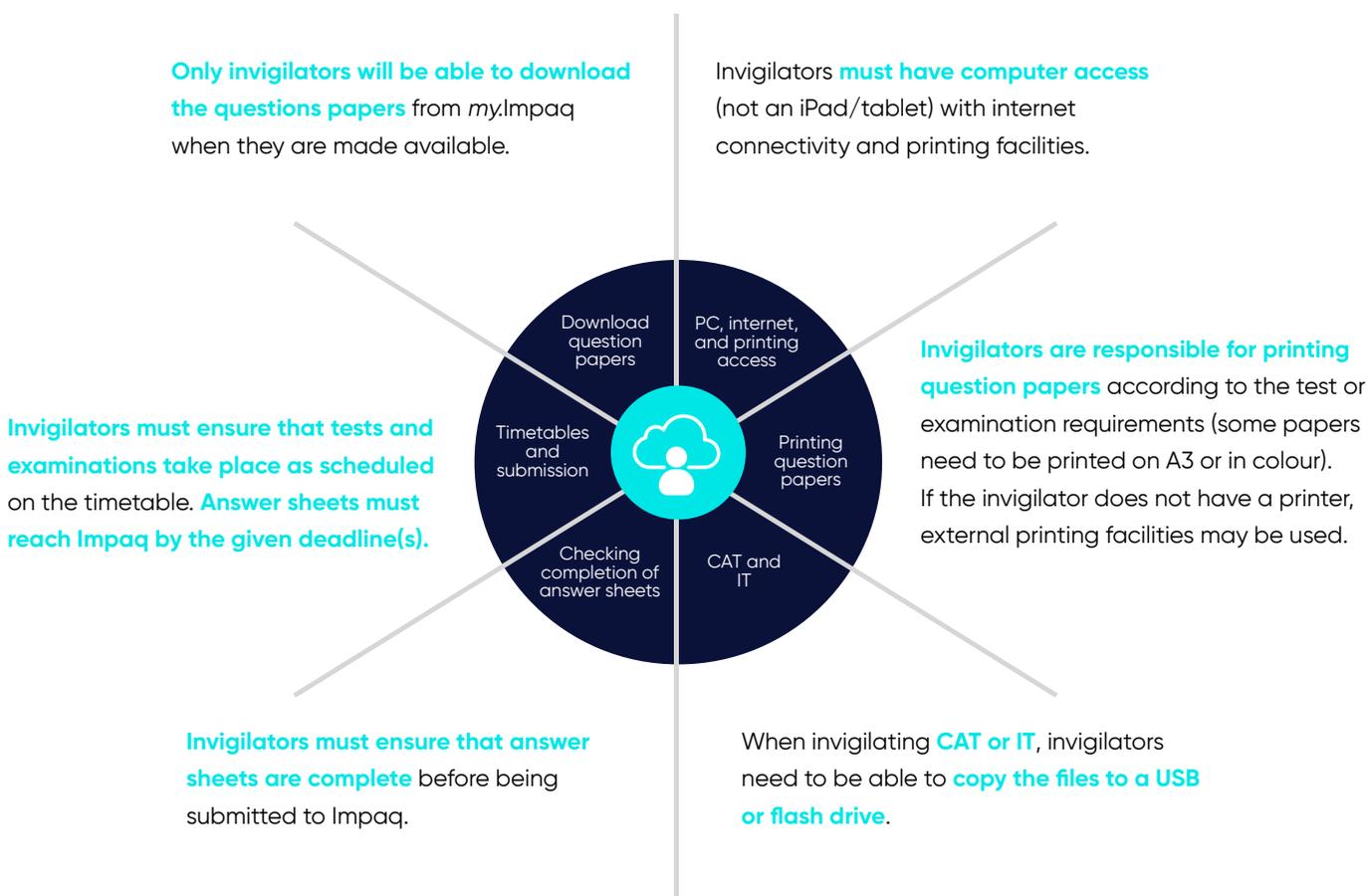
(1/2)

The invigilator is the individual fully responsible, and therefore accountable, for overseeing tests and examinations in the FET Phase.

It is the responsibility of the parent/guardian to recruit and nominate an invigilator for all Grade 10 to 12 tests and examinations, apart from the final Grade 12 NSC examination (administered by the assessment body, SACAI):

- Grade 10 to 12 Term 1 - 3 tests
- Grade 10 and 11 Term 4 tests
- Grade 10 to 12 June examination
- Grade 12 preliminary examination
- Grade 10 and 11 November examination

The following parties or persons may qualify and function as invigilators, if pre-approved by Impaq:



9. WHAT IS AN INVIGILATOR?

(2/2)

Fees for services rendered by the invigilator (including printing, internet and courier costs) must be agreed upon between the legal guardian and the invigilator. It is the legal guardian's responsibility to ensure that the invigilator fulfils all the necessary duties (as outlined in the rules and requirements for tests and examinations. Impaq cannot be held responsible for negligence on the part of the legal guardian or the invigilator. Impaq does not determine costs.

The parent/guardian is responsible for appointing an invigilator who meets the necessary requirements and must:

- Provide the invigilator with the test/examination timetable and ensure that it is strictly followed. Timetables are available for download under General Documents on *my.Impaq* and OLP.
- Confirm that the invigilator is available on the dates as per the timetable.
- Ensure that the invigilator knows which subjects the learner is registered for.
- Ensure that the correct question paper is given to the learner.
- Confirm that the invigilator can access *my.Impaq* to download the papers before the start of the test or examination.
- Provide task cover pages to the invigilator before each scheduled test or examination.
- Ensure that the answer sheets are submitted (by the invigilator) by the scheduled due dates.
- The parent/guardian may not have access to the question papers.

10. WHAT IS AN ASSESSOR?

An assessor must assess the practical components for subjects as specified in this document. The assessor is a qualified teacher in the subject being assessed. There are two types of assessors, an Impaq-approved assessor and a competent assessor. The difference is explained below:

- An **Impaq-approved assessor** is an assessor who must be approved by Impaq. The assessor(s), as well as the process, venue, and date, must be approved before the assessment takes place. The assessor should apply to Impaq for approval by providing Impaq with their CV and proof of qualifications.
- A **competent assessor** must adhere to the subject specifications as contained in this document, as well as the guidelines regarding the practical task that the learner must complete. Appointing a competent assessor is the responsibility of the parent/guardian. However, this assessor does not have to be pre-approved by Impaq.

It is the responsibility of the parent/guardian to ensure that the necessary arrangements for the assessment are in place and that the assessor is linked to the learner's profile, where applicable.

Learners/parents may arrange the assessment themselves, subject to the external examination board's requirements and approval. However, they may also make use of Impaq's assessment events where applicable. The cost of Impaq events and/or private assessment will be for the parent's/guardian's account.

11. STUDY NOTES

Study notes are critical for each subject as they contain important information and additional details about each subject, as well as the year plan. Study notes can be downloaded from the Optimi Learning Portal (OLP) by following the steps below:

1. As a learner, you can log in to the OLP using your username (MS email address as received from Impaq) and password (your ID number).
2. Click on Assessments
3. Select the relevant subject.
4. Click on the relevant button at the top of the screen to download the study notes for that subject.