

BACHELOR OF EDUCATION IN SENIOR PHASE AND FURTHER EDUCATION AND TRAINING TEACHING

(Specialisation in Mathematics)

BEd (Senior Phase and Further Education and Training Teaching) - NQF Level 7
(498 credits)

Qualification type: Professional Bachelor's Degree

Qualification code: BPSH20

SAQA ID: 109454, CHE NUMBER: H/H16/E132CAN

Campus where offered: Soshanguve North, eMalahleni, Mbombela and Polokwane campuses

Please note that this programme is currently only offered on Soshanguve North Campus.

REMARKS

a. *Admission requirement(s) and selection criteria:*

• **FOR APPLICANTS WHO OBTAINED A SENIOR CERTIFICATE BEFORE 2008:**

Admission requirement(s):

A Senior Certificate with a matriculation endorsement or an equivalent qualification, a C symbol at Higher Grade or a B symbol at Standard Grade in English and at least a D symbol at Higher Grade or a C symbol at Standard Grade for Mathematics and Biology or Mathematics and Physical Sciences.

The following subject specific-prerequisite in the FET/Senior Certificate is compulsory for applicants who intend to enrol for this qualification. Specialisation modules are offered in different groups and applicants must meet the requirements accordingly:

Specialisation modules offered in the programme	Specific prerequisite(s) on NQF Level 4
FET: Life Sciences I	Biology with an D symbol at Higher Grade or a C symbol at Standard Grade
FET: Mathematics I	Mathematics with an D symbol at Higher Grade or a C symbol at Standard Grade
FET: Physical Sciences I	Physical Sciences with an D symbol at Higher Grade or a C symbol at Standard Grade

Selection criteria:

Applicants are assessed according to the following formula:

SYMBOL	HG	SG
A	5	4
B	4	3
C	3	2
D	2	1
E	1	

To be considered for this qualification, applicants must have a score of **12**.



- **FOR APPLICANTS WHO OBTAINED A NATIONAL SENIOR CERTIFICATE IN OR AFTER 2008:**

Admission requirement(s):

A National Senior Certificate with a bachelor's degree endorsement, or an equivalent qualification, with an achievement level of at least 4 for English (home language or first additional language), and a 4 for Mathematics and Life Sciences or Mathematics and Physical Sciences.

The following subject specific-prerequisite in the FET/Senior Certificate is compulsory for applicants who intend to enrol for this qualification. Specialisation modules are offered in different groups and applicants must meet the requirements accordingly:

Specialisation modules offered in the programme	Specific prerequisite(s) on NQF Level 4
FET: Life Sciences I	Life Sciences with a minimum score of 4
FET: Mathematics I	Mathematics with a minimum score of 4
FET: Physical Sciences I	Physical Sciences with a minimum score of 4

Selection criteria:

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **24** (excluding Life Orientation).

- b. *Assessment procedure(s):*
No further assessment will be done. Applicants who achieve the minimum APS will be considered until the programme complement is full. Acceptance is subject to available capacity according to the Student Enrolment Plan (SEP). Once a programme is full, a waiting list will be in place to provide an opportunity for applicants to fill places of those who did not register on time. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, www.tut.ac.za.
- c. *Recognition of Prior Learning (RPL), equivalence and status:*
See Chapter 30 of Students' Rules and Regulations.
- d. *Intake for the qualification:*
January only.
- e. *Presentation:*
Day classes.
- f. *Minimum duration:*
Four years.
- g. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.
- h. *Abbreviation(s):*
In this programme, the abbreviation LoLT means Language of Learning and Teaching and the abbreviation LoCC means Language of Conversational Competence. LoCC modules are offered as determined by the Head of the Department.

CURRICULUM

FIRST YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
ALY105P	Academic Literacy and Life Skills	(5)	(10)	
CLM116P	Classroom Management I (first-semester module)	(6)	(5)	



ITE105P	ICT in Education I	(5)	(8)
LLE105P	LoLT: English I	(5)	(8)
PSF106P	Professional Studies (FET) I	(6)	(10)
PSP106P	Professional Studies (SP) I	(6)	(10)
SFS105P	School Based Learning I (6 weeks)	(5)	(12)
SMT106P	SP: Mathematics I	(6)	(14)
TEC106P	Theory of Education (Curriculum Studies) I	(6)	(22)

plus two of the following electives. Students must ensure that they register in any one of the following combinations:

- FET: Mathematics I, FET: Life Sciences I; **or**
- FET: Mathematics I, FET: Physical Sciences I.

FLS106P	FET: Life Sciences I	(6)	(16)
FMS106P	FET: Mathematics I	(6)	(16)
FPY106P	FET: Physical Sciences I	(6)	(16)

TOTAL CREDITS FOR THE FIRST YEAR: **131**

SECOND YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
CLM216P	Classroom Management II (first-semester module)	(6)	(5)	Classroom Management I
ITE205P	ICT in Education II	(5)	(7)	ICT in Education I
LLE205P	LoLT: English II	(5)	(6)	LoLT: English I
PSF206P	Professional Studies (FET) II	(6)	(13)	Professional Studies (FET) I
PSP206P	Professional Studies (SP) II	(6)	(10)	Professional Studies (SP) I
SFS206P	School Based Learning II (6 weeks)	(6)	(12)	School Based Learning I (6 weeks)
SMT206P	SP: Mathematics II	(6)	(16)	SP: Mathematics I
TEP207P	Theory of Education (Psychology and Sociology) II	(7)	(24)	Theory of Education (Curriculum Studies) I

plus two of the following electives. Students must ensure that they register in any one of the following combinations:

- FET: Mathematics II, FET: Life Sciences II; **or**
- FET: Mathematics II, FET: Physical Sciences II.

FLS206P	FET: Life Sciences II	(6)	(16)	FET: Life Sciences I
FMS206P	FET: Mathematics II	(6)	(16)	FET: Mathematics I
FPY206P	FET: Physical Sciences II	(6)	(16)	FET: Physical Sciences I

TOTAL CREDITS FOR THE SECOND YEAR: **125**

THIRD YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
CLM316P	Classroom Management III (first-semester module)	(6)	(7)	Classroom Management II
PSF307P	Professional Studies (FET) III	(7)	(15)	Professional Studies (FET) II
PSP306P	Professional Studies (SP) III	(6)	(12)	Professional Studies (SP) II
SFS307P	School Based Learning III (6 weeks)	(7)	(12)	School Based Learning II (6 weeks)



SMT307P	SP: Mathematics III	(7)	(16)	SP: Mathematics II
TEH307P	Theory of Education (History and Comparative Studies) III	(7)	(24)	Theory of Education (Psychology and Sociology) II

plus two of the following electives. Students must ensure that they register in any one of the following combinations:

- FET: Mathematics III, FET: Life Sciences III; **or**
- FET: Mathematics III, FET: Physical Sciences III.

FLS307P	FET: Life Sciences III	(7)	(18)	FET: Life Sciences II
FMS307P	FET: Mathematics III	(7)	(18)	FET: Mathematics II
FPY307P	FET: Physical Sciences III	(7)	(18)	FET: Physical Sciences II

TOTAL CREDITS FOR THE THIRD YEAR: **122**

FOURTH YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
IED417P	Inclusive Education (first-semester module)	(7)	(7)	Academic Literacy and Life Skills
IRS416P	Introduction to Research (first-semester subject)	(6)	(6)	Classroom Management III
PSF407P	Professional Studies (FET) IV	(7)	(20)	Professional Studies (FET) III
PSP407P	Professional Studies (SP) IV	(7)	(20)	Professional Studies (SP) III
SFS407P	School Based Learning IV (12 weeks)	(7)	(30)	School Based Learning III (6 weeks)
TEY407P	Theory of Education (Philosophy) IV	(7)	(30)	Theory of Education (History and Comparative Studies) III

plus one of the following electives:

LTA405P	LoCC: Setswana	(5)	(7)
LTG405P	LoCC: Xitsonga	(5)	(7)
LVN405P	LoCC: Tshivenda	(5)	(7)
LZL405P	LoCC: IsiZulu	(5)	(7)

TOTAL CREDITS FOR THE FOURTH YEAR: **120**

TOTAL CREDITS FOR THE QUALIFICATION: **498**

MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the department or in the study guide that is applicable to a particular module. At time of publication, the syllabus content was defined as follows:

A

ACADEMIC LITERACY AND LIFE SKILLS (ALY105P)

CONTINUOUS ASSESSMENT

(Module custodian: Department of Technology and Vocational Education)

The purpose of the module is to provide students with an introduction to the competencies required to be an effective student at university. This module aims to empower students with the skills, knowledge, abilities and attitudes required to address academic challenges in a proactive and meaningful way. (Total notional time: 100 hours)



C**CLASSROOM MANAGEMENT I (CLM116P)****1 X 2-HOUR PAPER****(Module custodian: Department of Educational Foundation)**

The purpose of the module is to equip students with skills and knowledge that would enable them to effectively manage their classrooms. Students will be exposed to basic knowledge and skills of classroom management principles and functions. (Total notional time: 50 hours)

CLASSROOM MANAGEMENT II (CLM216P)**1 X 2-HOUR PAPER****(Module custodian: Department of Educational Foundation)**

The purpose of the module is to provide students with detailed knowledge and skills to enable them to appropriately execute administrative classroom activities, to effectively manage diverse classroom areas and techniques to facilitate learner motivation within their classrooms. (Total notional time: 50 hours)

CLASSROOM MANAGEMENT III (CLM316P)**1 X 2-HOUR PAPER****(Module custodian: Department of Educational Foundation)**

The purpose of the module is to provide the student with the necessary detailed knowledge and insight into the environment of the law of education with special reference to the sources of education law, the legal status of the learner as well as the role and legal duties of the educator to act as a caring supervisor. Furthermore, the module enriches the student's knowledge base about the current legal practices pertaining to education. This module will enable the student to enter the labour market confidently and apply the appropriate legal principles situationally and professionally in and outside the classroom. (Total notional time: 70 hours)

F**FET: LIFE SCIENCES I (FLS106P)****1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

Basic understanding and development of the skills and knowledge needed for scientific knowledge and processes, of Sciences; classification of lower life forms. Students will be able to develop, select and apply basic laboratory techniques, problem-solving skills applicable to Life Sciences as a scientific enterprise in classroom situations and beyond. Origins & characteristics and form and function of lower life forms on earth and introduction to evolution; Life Sciences foundations; Organisation of life and biochemical compounds and biochemistry; Microbiology, viruses, bacteria, fungi; plant and animal tissues; basic Sciences (life) laboratory safety. Specific Subject Didactics - Lesson plan and Presentation (Grade 10), Learner Teacher support material, Application of CAPS: Life Science Grade 10. (Total notional time: 160 hours)

FET: LIFE SCIENCES II (FLS206P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

Detailed understanding and application of knowledge in genetics, ecology, population studies and conservation issues. Students will be exposed to the application of scientific procedures and skills applicable to describe sustainability of natural resources, population growth and regulation. Taxonomy and Systematics; classical and molecular genetics; Genetics; Ecology and populations study; animal behaviour and Environmental ecology; Laboratory techniques; designing practical worksheets; sampling and vegetation analysis. Specific Subject Didactics - Teaching methods, strategies and assessment relevant to Life Sciences, Lesson plan and Presentation, Application of CAPS: Life Sciences Grade 11. (Total notional time: 160 hours)

FET: LIFE SCIENCES III (FLS307P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

This module will collect, analyse and apply information related to evolution and systematics of higher life forms. Students will be further integrating knowledge disciplines in problem solving and ethics in Sciences. Evolution; Biodiversity and Taxonomy; Lower Plants; Higher Plants; Lower Animals; Higher Animals. Specific Subject Didactics - Application of teaching methods, strategies, assessment and programme guidelines relevant to Life Sciences, Lesson plan and Presentation. Application of CAPS: Life Sciences Grade 12. (Total notional time: 180 hours)



FET: MATHEMATICS I (FMS106P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

The purpose of this module is to equip students with mathematical skills and knowledge at the pre-calculus level and calculus level. Students will be exposed to basic mathematical knowledge and skills applicable to the Further Education and Training Phase. Complex numbers Binomial Theorem, Theory of polynomials, Functions, Differentiation, Exponential and logarithmic functions, Trigonometry, Coordinate geometry, Circle. Matrices, Systems of linear equations, Linear programming, Partial fractions, Permutation and Combination, Binomial theorem, Limits and continuity, Euclidean Geometry and measurement, Analytical Geometry. Specific Subject Didactics - Lesson plan and Presentation (Grade 10), Learner Teacher support material, Application of CAPS: Mathematics Grade 10. (Total notional time: 160 hours)

FET: MATHEMATICS II (FMS206P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

This module exposes students to the mathematical methods, procedures and techniques for solving problems related to Calculus, Statistics and Vectors. Students will be exposed to detailed mathematical knowledge and skills applicable to the FET phase. Plane curve, parametric equations and Polar coordinates, Lines and planes in 3-D space Differentiation, Integration. Series and progressions, Infinite series, Vectors. Conic Section, Data handling; Probability, Euclidean Geometry and measurement, Analytical Geometry. Specific Subject Didactics - Teaching methods, strategies and assessment relevant to Mathematics, Lesson plan and Presentation, Application of CAPS: Mathematics Grade 11. (Total notional time: 160 hours)

FET: MATHEMATICS III (FMS307P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

The purpose of this module is to enrich students' knowledge base with the mathematical methods, procedures and techniques to apply in solving problems related to Linear Algebra, Differential equations and Advanced Calculus. Students will be exposed to advanced mathematical knowledge and skills applicable to the FET Phase. Vector Spaces, Linear Transformations, Multiple Integration, Laplace Transforms and Fourier series, First-order differential equations. Second-order differential equations, Euclidean Geometry and measurement, Analytical Geometry. Specific Subject Didactics - Application of teaching methods, strategies, assessment and programme guidelines relevant to Mathematics, Lesson plan and Presentation. Application of CAPS: Mathematics Grade 12. (Total notional time: 180 hours)

FET: PHYSICAL SCIENCES I (FPY106P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

The module is divided into Physics and Chemistry, will ground pre-service teachers with basic concepts in both modules of Sciences. That is, students must be able to recognise concepts and their meanings and be able use them appropriately. Introduction and mathematical concepts, Kinematics in one dimension, Kinematics in two dimensions, Forces and Newton's laws of motion, Impulse and momentum, Electric forces and electric fields, Electric potential energy and the electric potential, Electric circuits. Matter and its measurement, Atoms, molecules an ions, Formulas, equations and moles, Reactions in aqueous solutions, Electronic structure of atoms, Periodic properties of elements, Acid-base equilibria, The chemistry of life. Specific Subject Didactics - Lesson plan and Presentation (Grade 10), Learner Teacher support material, Application of CAPS: Physical Sciences Grade 10. (Total notional time: 160 hours)

FET: PHYSICAL SCIENCES II (FPY206P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

Enable pre-service teachers to integrate concepts to construct understanding and to interpret and explain related scientific principles and laws for problem solving. Rotational kinematics, Temperature and heat, the transfer of heat, Magnetic forces and magnetic fields, Electromagnetic induction. Gases, Liquids, solids and intermolecular forces, Properties of solutions, Chemical kinetics, Additional aspects of acid-base equilibria, Electrochemistry. Specific Subject Didactics - Teaching methods, strategies and assessment relevant to Physical Sciences, Lesson plan and presentation, Application of CAPS: Physical Sciences Grade 11. (Total notional time: 160 hours)



FET: PHYSICAL SCIENCES III (FPY307P)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics Science and Business Education)**

Integrate knowledge, skills and values of Sciences from different disciplines (e.g. mathematics) with the aim to solving authentic socio-cultural, environmental and related problems. Simple harmonic motion and elasticity, Waves and sound, Electromagnetic waves, the reflection of light: Mirrors, The refraction of light: Lenses and optical instruments, Interference and the wave nature of light, Particles and waves. The nature of analytical chemistry, Tools in chemical analysis, Methods of chemical analysis, Chemical equilibria, Chemical thermodynamics, Chemical kinetics, Molecular geometry and bonding theories, Modern materials, Chemistry of the environment. Specific Subject Didactics - Application of teaching methods, strategies, assessment and programme guidelines relevant to Physical Sciences, Lesson plan and Presentation. Application of CAPS: Physical Sciences Grade 12. (Total notional time: 180 hours)

I**ICT IN EDUCATION I (ITE105P)****CONTINUOUS ASSESSMENT****(Module custodian: Department of Technology and Vocational Education)**

The purpose of the module is to provide students with detailed ICT knowledge and skills to enable them to appropriately execute the use of Microsoft office suite which, amongst others, will include basic Word Processing (Microsoft Word), basic Spreadsheet (Microsoft Excel), basic Presentation (Microsoft PowerPoint) and basic desktop publishing software (Microsoft Publisher). The student will also be exposed to theoretical knowledge and skills of mastering the concepts and terminology of relevant computer basics, managing computer contents, searching for contents and using help, customising Windows, using Internet and security and maintenance of computers and computer laboratories. (Total notional time: 80 hours)

ICT IN EDUCATION II (ITE205P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Technology and Vocational Education)**

The purpose of the module is to provide students with detailed ICT knowledge and skills to enable them to appropriately execute the use of Microsoft office suite which, amongst others, will include intermediate Word Processing (Microsoft Word), intermediate Spreadsheet (Microsoft Excel), intermediate Presentation (Microsoft PowerPoint) and advanced desktop publishing software (Microsoft Publisher). (Total notional time: 70 hours)

INCLUSIVE EDUCATION (IED417P)**1 X 3-HOUR PAPER****(Module custodian: Department of Educational Foundation)**

Students who completed the module successfully, will be able to demonstrate knowledge of the practical implications of the implementation of inclusive education and of strategies for the accommodation of learners with specific barriers to learning in different classroom contexts; implement the SIAS-process; to collaborate with parents and other support professionals in the support process. (Total notional time: 70 hours)

INTRODUCTION TO RESEARCH (IRS416P)**1 X 2-HOUR PAPER****(Module custodian: Department of Primary Education)**

Introduction to the designing and conducting of research by selecting an area and topic for research, understanding of appropriate research methodologies. Understand research processes: topic, action plan, literature review, research questions, hypothesis, methodology, interpreting of data, analysis, findings. Access of data. Producing and presenting a research proposal. (Total notional time: 60 hours)

L**LOCC: ISIZULU (LZL405P)****CONTINUOUS ASSESSMENT****(Module custodian: Department of Applied Languages)**

The purpose of this module is to equip students with basic conversation skills, so that they can communicate with other people in IsiZulu in a social context. Further, this module is aimed at providing the students with basic knowledge and skills on how to communicate successfully with other people in IsiZulu besides their home languages, in various contexts. This will enhance multilingualism; promote knowledge and the development of indigenous African Languages. (Total notional time: 70 hours)



LOCC: SETSWANA (LTA405P)**CONTINUOUS ASSESSMENT*****(Module custodian: Department of Applied Languages)***

The purpose of this module is to equip students with basic conversation skills, so that they can communicate with other people in Setswana in a social context. Further, this module is aimed at providing the students with basic knowledge and skills on how to communicate successfully with other people in Setswana besides their home languages, in various contexts. This will enhance multilingualism; promote knowledge and the development of indigenous African Languages. (Total notional time: 70 hours)

LOCC: TSHIVENDA (LVN405P)**CONTINUOUS ASSESSMENT*****(Module custodian: Department of Applied Languages)***

The purpose of this module is to equip students with basic conversation skills, so that they can communicate with other people in Tshivenda in a social context. Further, this module is aimed at providing the students with basic knowledge and skills on how to communicate successfully with other people in Tshivenda besides their home languages, in various contexts. This will enhance multilingualism; promote knowledge and the development of indigenous African Languages. (Total notional time: 70 hours)

LOCC: XITSONGA (LTG405P)**CONTINUOUS ASSESSMENT*****(Module custodian: Department of Applied Languages)***

The purpose of this module is to equip students with basic conversation skills, so that they can communicate with other people in Xitsonga in a social context. Further, this module is aimed at providing the students with basic knowledge and skills on how to communicate successfully with other people in Xitsonga besides their home languages, in various contexts. This will enhance multilingualism; promote knowledge and the development of indigenous African Languages. (Total notional time: 70 hours)

LOLT: ENGLISH I (LLE105P)**1 X 3-HOUR PAPER*****(Module custodian: Department of Technology and Vocational Education)***

The purpose of this module is to develop students English language competence and subject knowledge in order to support and improve the language of learning and teaching in the classroom. (Total notional time: 80 hours)

LOLT: ENGLISH II (LLE205P)**1 X 3-HOUR PAPER*****(Module custodian: Department of Technology and Vocational Education)***

Stages, Types and Importance of Listening; Effective Communication Strategies: Register and Tone; Reading and Interpretation of texts; Critical Analysis of Texts; Writing for Critical Analysis; Writing Strategies for Different Purposes. (Total notional time: 60 hours)

P**PROFESSIONAL STUDIES (FET) I (PSF106P)****CONTINUOUS ASSESSMENT*****(Module custodian: Department of Educational Foundation)***

Introduction to general methodology, lesson planning and design (Grades 10-12), differentiated teaching and learning methods and strategies, formative and summative assessment methods and the school curriculum. Engage in Microteaching and mini lessons presentation. (Total notional time: 100 hours)

PROFESSIONAL STUDIES (FET) II (PSF206P)**CONTINUOUS ASSESSMENT*****(Module custodian: Department of Educational Foundation)***

Curriculum design and implementation of curriculum policy (Grades: 10-12) and implementation of special needs: scaffolding learning. Teaching and learning methods and strategies and the application of formative assessment. Develop and apply media and technology. Engage in microteaching and min lesson presentations. (Total notional time: 130 hours)

PROFESSIONAL STUDIES (FET) III (PSF307P)**CONTINUOUS ASSESSMENT*****(Module custodian: Department of Educational Foundation)***

Development of Curriculum theories within specialisation field; curriculum development models within specialisation; designing and application of assessment methods and techniques for the FET Phase; development and analysing of various digital technology and media; reflective teaching; and engage in Micro teaching. (Total notional time: 150 hours)



PROFESSIONAL STUDIES (FET) IV (PSF407P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Educational Foundation)**

Application and analyses of curriculum theories within specialised subjects. Reflective teaching; application and analyses of assessment strategies, integration of digital technology media. Micro teaching. Teaching portfolio for FET subjects, Grade 10-12. Mini-research projects. (Total notional time: 200 hours)

PROFESSIONAL STUDIES (SP) I (PSP106P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Educational Foundation)**

Creation and organisation of a positive learning environment. Introduction to lesson planning and design (Grades 7-9) and special needs education. Monitoring and assessing learner progress. Core-curricular and extra-curricular activities and microteaching. (Total notional time: 100 hours)

PROFESSIONAL STUDIES (SP) II (PSP206P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Educational Foundation)**

Introduction to curriculum policy (Grades: 6-9); theory, special needs, diagnosing learning barriers. Teaching and learning methods and strategies and assessment for senior phase: protocol on assessment. Apply technology and media and teaching and learning methods. Micro teaching lesson presentations in SP subject specialisation. (Total notional time: 100 hours)

PROFESSIONAL STUDIES (SP) III (PSP306P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Educational Foundation)**

Development of Curriculum theories within specialised field; application of teaching, learning and assessment methods and strategies (Grades 7-9). Introduction to various representations of knowledge; apply digital technology and media in the classroom and participate in micro teaching lessons. (Total notional time: 120 hours)

PROFESSIONAL STUDIES (SP) IV (PSP407P)**CONTINUOUS ASSESSMENT****(Module custodian: Department of Educational Foundation)**

Application of content knowledge, assessment strategies and Senior Phase curriculum models in lessons. Reflective teaching; application and analyses of assessment strategies, integration of digital technology media. Micro teaching. Teaching portfolio for SP subjects, Grades 7-9. Mini-research projects. (Total notional time: 200 hours)

S**SCHOOL BASED LEARNING I (6 WEEKS) (SFS105P)****WORK-INTEGRATED LEARNING****(Module custodian: Department of Educational Foundation)**

The purpose of this module is to ensure that the students is well-equipped and demonstrate communicative, reflective, ethical, numerical and technological competence and literacy in ways that facilitate their own academic learning, and enable them to enhance teaching, learning and the observation and evaluation of their learners in their classrooms. (Total notional time: 120 hours)

SCHOOL BASED LEARNING II (6 WEEKS) (SFS206P)**WORK-INTEGRATED LEARNING****(Module custodian: Department of Educational Foundation)**

Students who completed the module successfully, will be able to demonstrate knowledge, skills and applied competencies in areas such as, but not limited to: demonstrate the facilitation and scaffolding learning in the classroom, apply various teaching and learning strategies on relevant subject's specialisation, develop and practical application of the media within the lessons execute and perform classroom tasks and successfully complete of the subject portfolio's and logbook. (Total notional time: 120 hours)

SCHOOL BASED LEARNING III (6 WEEKS) (SFS307P)**WORK-INTEGRATED LEARNING****(Module custodian: Department of Educational Foundation)**

Students who completed the module successfully, will be able to demonstrate knowledge, skills and applied competencies in areas such as to plan organised and execute all teaching activities at an accredited school, research how gifted and talented learners are identified and supported at school, observe and reflecting on various tasks expected from the educator at school, write a report on work-based learning and reflect on their teaching practice. (Total notional time: 120 hours)



SCHOOL BASED LEARNING IV (12 WEEKS) (SFS407P)
(Module custodian: Department of Educational Foundation)

WORK-INTEGRATED LEARNING

Students who completed the module successfully, will be able to demonstrate knowledge, skills and applied competencies in areas such as, but not limited to: plan, organise and execute all teaching activities at an accredited school; complete a set of educator files for each subject, participate as register teacher, in creating a positive learning environment; share knowledge of the curriculum and learning programmes, in lesson planning and presentation in assessing learner achievements, in professional development in the field of work, participate in extra-curricular and co-curricular activities and reflect on own teaching practice. (Total notional time: 300 hours)

SP: MATHEMATICS I (SMT106P) **1 X 3-HOUR PAPER**
(Module custodian: Department of Mathematics Science and Business Education)

The purpose of this module is to equip students with mathematical skills and knowledge at the pre-calculus level and calculus level. Students will be exposed to basic mathematical knowledge and skills applicable to the senior phase. Complex numbers Binomial Theorem, Theory of polynomial, Functions, Differentiation, Exponential and logarithmic functions, Trigonometry, Coordinate geometry, Circle, Matrices, Systems of linear equations, Linear programming, Partial fractions, Permutation and Combination, Binomial theorem, Limits and continuity. Specific Subject Didactics - Lesson plan and Presentations (Grade 7), Learner Teacher support material, Application of CAPS: Mathematics Grade 7. (Total notional time: 140 hours)

SP: MATHEMATICS II (SMT206P) **1 X 3-HOUR PAPER**
(Module custodian: Department of Mathematics Science and Business Education)

This module will expose students to the mathematical methods, procedures and techniques for solving problems related to Calculus, Statistics and Vectors. Students will be exposed to detailed mathematical knowledge and skills applicable to the senior phase. Plane curve, Parametric equations and Polar coordinates, Lines and planes in 3-D space Differentiation, Integration, Series and progressions, Infinite series, Vectors, Conic Section, Data handling, Probability. Specific Subject Didactics - Teaching methods, strategies and assessment relevant to Mathematics, Lesson plan and Presentation, Application of CAPS: Mathematics Grade 8. (Total notional time: 160 hours)

SP: MATHEMATICS III (SMT307P) **1 X 3-HOUR PAPER**
(Module custodian: Department of Mathematics Science and Business Education)

The module will enrich students' knowledge base with the mathematical methods, procedures and techniques to apply in solving problems related to Linear Algebra, Differential equations and Advanced Calculus. Students will be exposed to advanced mathematical knowledge and skills applicable to the Senior Phase. Vector Spaces, Linear Transformations, Multiple Integration, Laplace Transforms and Fourier series, First-order differential equations, Second-order differential equations. Specific Subject Didactics - Application of teaching methods, strategies, assessment and programme guidelines relevant to Mathematics, Lesson plan and presentation. Application of CAPS: Mathematics Grade 9. (Total notional time: 160 hours)

T

THEORY OF EDUCATION (CURRICULUM STUDIES) I (TEC106P) **1 X 3-HOUR PAPER**
(Module custodian: Department of Educational Foundation)

This module provides theoretical knowledge and insights into issues related to curriculum theory as sub-discipline of Foundations of Education. Students develop skills on how to create a learning environment, select teaching, learning and assessment methods applicable for micro curriculum development with reference to lesson design. (Total notional time: 220 hours)

THEORY OF EDUCATION (PSYCHOLOGY AND SOCIOLOGY) II (TEP207P) **1 X 3-HOUR PAPER**
(Module custodian: Department of Educational Foundation)

Psychological and Sociological perspective based on learning and development theories and the effects on cognitive development. Socio-pedagogy as sub-discipline of Foundations of Education addresses, youth leadership, education and economy, diversity of cultures and gender, unemployment. (Total notional time: 240 hours)



THEORY OF EDUCATION (HISTORY AND COMPARATIVE STUDIES) III (TEH307P)

1 X 3-HOUR PAPER

(Module custodian: Department of Educational Foundation)

This module includes the development of education through various periods in the history of mankind; the influence of the age of enlightenment on western and South African education; and the roles of policies and adult education. (Total notional time: 240 hours)

THEORY OF EDUCATION (PHILOSOPHY) IV (TEY407P)

1 X 3-HOUR PAPER

(Module custodian: Department of Educational Foundation)

This module comprise of: the philosophy of education as sub-discipline of the foundations of education, the philosophy of education as a science, education and the South African Constitution, multi-cultural education and ethical issues in education. (Total notional time: 300 hours)

