

2021 RPL applications: Department of Architectural Technology and Interior Design

Subject outlines

RECOGNITION OF PRIOR LEARNING (RPL) APPLICANTS FOR ADVANCED DIPLOMA IN ARCHITECTURAL TECHNOLOGY							
AT	Without Diploma in AT (or equivalent) Intending to apply for AdvDip Year 1 Age 23+	Apply for Advanced Standing (status) into the AdvDip year-1: Show evidence for Diploma subjects: Environment 3, Literacy 3, Practice 3, Design 3, Technology 3	Minimum 8 years	Yes	Yes	Yes	Yes
	With Diploma in AT (or equivalent) Intending to apply for AdvDip Year 2 Age 23+	Apply for credits for AdvDip year 1 subjects: Environment 4, Literacy 4, Practice 4, to access Year 2 of the AdvDip	Minimum 8 years	Yes	Yes	Yes	Yes
	Without Diploma in AT (or equivalent) Intending to apply for AdvDip Year 2 Age 23+	Show evidence for: Diploma subjects: Environment 3, Literacy 3, Practice 3, Design 3, Technology 3, PLUS Apply for credits for AdvDip year 1 subjects: Environment 4/Literacy 4/Practice 4 <i>(minimum credits of 2 subjects required, as 1 subject can be carried into Year 2)</i>	Minimum 15 years	Yes	Yes	Yes	Yes
RECOGNITION OF PRIOR LEARNING (RPL) APPLICANTS FOR ADVANCED DIPLOMA IN INTERIOR DESIGN							
ID	Without Diploma in ID (or equivalent) Intending to apply for AdvDip Year 1 Age 23+	Apply for Advanced Standing (status) into the AdvDip year-1: Show evidence for Diploma subjects: Environment 3, Literacy 3, Practice 3, Design 3, Technology 3	Minimum 8 years	Yes	Yes	Yes	Yes
	With Diploma in ID (or equivalent) Intending to apply for AdvDip Year 2 Age 23+	Apply for credits for AdvDip year 1 subjects: Environment 4, Literacy 4, Practice 4, to access Year 2 of the AdvDip	Minimum 8 years	Yes	Yes	Yes	Yes
	Without Diploma in ID (or equivalent) Intending to apply for AdvDip Year 2 Age 23+	Show evidence for: Diploma subjects: Environment 3, Literacy 3, Practice 3, Design 3, Technology 3, PLUS Apply for credits for AdvDip year 1 subjects: Environment 4/Literacy 4/Practice 4 <i>(minimum credits of 2 subjects required, as 1 subject can be carried into Year 2)</i>	Minimum 15 years	Yes	Yes	Yes	Yes

DIPLOMA IN ARCHITECTURAL TECHNOLOGY

Demonstrate knowledge of the technology for simple low-rise buildings or the equivalent and the ability to develop effective construction solutions.

Demonstrate a working knowledge of architectural practice and the ability to develop architectural documentation for complex building or the equivalent thereof.

Demonstrate knowledge of the theory and history of architectural design and the ability to develop simple architectural design solutions.

Demonstrate the competent application of a range of architectural literacy skills.

Demonstrate awareness of environmental issues in the creation of a sustainable built environment.

LITERACY 3 (AT)

The purpose of this subject is to develop an array of skills for communicating in architectural discourse. These include, methods of interpretation (through precedent analysis), conceptualisation (through diagramming and drawing), and application (by compiling a coherent narrative explicating the design process, in the design report). The purpose of the subject is furthermore to enhance students' confidence in public speaking, through iterative verbal class presentations.

Upon completion of the subject, students must demonstrate the above mentioned aspects in their practice of architectural literacy. By concluding the course, students must show understanding and demonstrate knowledge, and skills that pertain to architectural literacy, as per the following outcomes:

- Analysing precedent studies to distill essential and relevant information for use in the design.
- Communicating ideas and completed design using graphic, oral and written skills
- Communicating the stages of the design process in formulating an appropriate concept and design intent; and developing, refining and completing an appropriate sketch design logically and sensitively.
- Presenting a design proposal by communicating clearly and effectively.
- Overall quality, neatness, completeness and competence of work.

ENVIRONMENT 3 (AT)

Environmental Design 3 aims to familiarise students with advanced principles of passive design, as well to introduce heritage, urban design and landscape design principles. The subject aims further to engage and support an holistic approach to the evolution of the built environment.

Students must show understanding and demonstrate knowledge, skills and values that reflect the following outcomes:

- Creating habitable buildings.
- Application of passive design principles.
- Applied principles of environmental auditing.
- Applied principles of urban design.
- Applied principles of heritage sensitive design.
- Applied principles of landscape design.

PRACTICE 3 (AT)

The Cape Peninsula University of Technology offers career-orientated education which consists of a theoretical (or academic) component in the classroom situation, as well as a practical (experiential) component in the studio or the workplace. The experiential training period (also called 'internship') is a minimum of 18 weeks and is scheduled to take place during the second semester of the third year of the programme. The primary aim is to expose the students to the diversity of Architectural Technology in practice. The subject also engages with entrepreneurship, setting up a viable practice structure and engaging in public interest design.

Students must show understanding and demonstrate knowledge, skills and values that will underpin your ability to develop simple architectural design solutions, as per the following outcomes:

- Acknowledging the role of architecture within the overall context of the natural and built environment; as well as in relation to individual and collective experience within socio-cultural landscapes, both in a personal capacity and that of the shared public realm.
- Understanding the procedures, techniques and skills of problem solving and the design process.
- Understanding historical, theoretical and spatial terminology of architectural design.
- Understanding the fundamental principles that create architecture: form, function, context and technology.

- Following the stages of the design process in formulating an appropriate concept and design intent; and developing, refining and completing an appropriate sketch design logically and sensitively.
- Working constructively as individuals as well as with others, with support and independently.
- Investigating site informants, constraints and regulations. · Responding to contextual and environmental factors.

DESIGN 3 (AT)

The aim of this subject is to develop the skills and knowledge required to conceptualise and design architectural projects, with a particular focus on technological design. Students are required to engage with an urban context and complex building programme of reasonable complexity, as well as framed structural systems (steel and concrete) and façade systems.

Students must show understanding and demonstrate knowledge, skills and values that will underpin their ability to develop simple architectural design solutions, as per the following outcomes:

- Acknowledging the role of architecture within the overall context of the natural and built environment; as well as in relation to individual and collective experience within socio-cultural landscapes, both in a personal capacity and that of the shared public realm.
- Understanding the procedures, techniques and skills of problem solving and the design process.
- Understanding historical, theoretical and spatial terminology of architectural design.
- Understanding the fundamental principles that create architecture: environment, form, function, context and technology.
- Following the stages of the design process in formulating an appropriate concept and design intent; and developing, refining and completing an appropriate sketch design logically and sensitively.
- Working constructively as individuals as well as with others, with support and independently.
- Investigating site informants, constraints and regulations.
- Responding to contextual and environmental factors.
- Applying appropriate design and technological principles.

TECHNOLOGY 3 (AT)

The following competencies cover those required by SACAP (2010) for the category "Professional Architectural Technologist". The student must be able to demonstrate:

- Knowledge of the basic structural concepts pertaining to concrete and steel framed building;
- Knowledge of construction methods and uses for materials related to simple low-- rise building types carried out in concrete or steel;
- Ability to recognize the demands of context, as well as local resources and appropriate technologies that harmonise with the environment, to the extent that these influence the construction of a building;
- Ability to conduct limited relevant research into building materials and methods from completed precedent buildings and from a variety of manual and electronic sources;
- Ability to critically analyse and evaluate the overall suitability and limitations of the researched material or method regarding its potential application in a practical, usable form;
- Ability to apply principles of good construction and appropriate detail resolution in the development of durable, cost--effective, climate responsive construction details (standard and self--generated);

· Ability to produce accurate documentation for a wide range of building types, to professional best practice and industry standards. Specific outcomes for tasks, exercises and practical application will be defined on the briefs and explanatory notes issued during the course.

ADVANCED DIPLOMA IN ARCHITECTURAL TECHNOLOGY: YEAR 1

SUBJECTS

ENVIRONMENTAL DESIGN 4 [EMD470S]

20 Credit Subject

Environmental Design 4 focuses on the identification, analysis and critical appraisal of the social, economic and environmental informants and the impact of architectural decisions. It aims to provide the future architectural professional with a valuable toolkit to responsibly act on the global environmental crisis.

The main content areas are context, climate and sustainable construction. Context includes urban design, landscape design and heritage practice. Climate covers environmental legislation, passive design principles, environmental calculations and relevant software. Sustainable construction includes sustainable structure, sustainable services and systems, and sustainable materials and methods.

The knowledge, skills and attitudes developed in this subject are applied in Architectural Design 4 and Architectural Technology 4.

ARCHITECTURAL LITERACY 4 [AHL470S]

10 Credit Subject

Architectural literacy 4 stimulates intellectual, reflective and analytical skills, to formulate coherent architectural arguments, as well as to develop design methodologies to solve architectural challenges. It comprises two main knowledge areas, namely discourse and research. Discourse fosters understanding of current and past architectural philosophies, movements and theories in relation to the South African context. It covers historical references and precedent, design informants, principles and process, and design vocabulary to engage in design conversation. Research covers research design and methodology, and the formulation of a logical and convincing design argument.

The knowledge, skills and attitudes developed in this subject are applied in Architectural Design 4 and Architectural Technology 4.

ARCHITECTURAL PRACTICE 4 [AHP470S]

20 Credit Subject

The **Architectural Practice 4** subject aims to reinforce students' work-based learning in architectural practice, and to prepare them for registration as professional senior architectural technologists. It broadly covers conduct, contract and communication. Conduct includes professionalism and ethics, alternative architectural practice (including social design practice), professional bodies, professional registration and working with other built environment professionals, as well as office administration and systems and professional development, for example self-awareness and creativity. Content related to contract covers documentation and specification; and communication includes various forms of written, verbal and graphic (two dimensional, three dimensional, physical and digital) communication necessary to practice architecture.

The knowledge, skills and attitudes developed in this subject are applied in Architectural Design 4 and Architectural Technology 4.

DIPLOMA IN INTERIOR DESIGN SUBJECTS

Demonstrate knowledge of the technology for non-load bearing interior fit outs or equivalent and the ability to develop effective construction solutions.

Demonstrate a working knowledge of interior design practice and the ability to develop interior design documentation for a complex interior including non-load bearing interior fit outs.

Demonstrate knowledge of the theory and history of interior design and the ability to develop simple interior design solutions.

Demonstrate the competent application of a range of interior design literacy skills.

Demonstrate awareness of environmental issues in the creation of a sustainable built environment.

LITERACY 3 (ID)

Interior Literacy 3 focuses on the application of literacy skills, tools and thinking used in interior design articulation and interaction. It includes

- visual literacy: various drawing types and conventions, rendering, model making
- digital literacy: skills, tools, building information modelling
- academic literacy: reading, writing, verbal

Knowledge of the range of augmenting communication technology, presently in use in design practice and the ability to apply it in the execution of work.

Computer software to include web browsers and communication programs, word processing, spreadsheets, architectural drawing, graphic and image editing programs.

Knowledge of methods to communicate successfully and unambiguously to various role players in the interior design industry.

Students must show understanding and demonstrate knowledge, and skills that pertain to interior literacy, as per the following outcomes:

- Analysing precedent studies to distil essential and relevant information for use in the design.
- Communicating ideas and completed design using graphic, oral and written skills
- Communicating the stages of the design process in formulating an appropriate concept and design intent; and developing, refining and completing an appropriate sketch design logically and sensitively.
- Presenting a design proposal by communicating clearly and effectively.

ENVIRONMENT 3 (ID)

Environmental Design 3 focuses on the application of advanced principles of passive design and introduces heritage and the applied principles of adaptive re-use for furniture and interiors. Projects are focused on creating habitable interiors through application of passive design principles and services.

Students must show understanding and demonstrate knowledge, skills and values that reflect the following outcomes:

- Creating habitable and healthy buildings and supports well being
- Application of passive design principles.
- Awareness of principles of environmental auditing.
- Awareness of the principles of biophilic design within interior spaces.

- Understanding the appropriate specification of components and materials to comply with health and safety regulations, building standards and human needs.
- Understanding the durability, cost-effectiveness, performance and environmental costs of materials and components.
- Understanding the demands of context and local resources when specifying materials

PRACTICE 3 (ID)

Interior Practice 3 Placement within an architectural practice environment and an associated project form the major part of Interior Practice 3. The subject also engages with entrepreneurship, setting up a viable practice structure and engaging in public interest design. Through project application the principles of documentation are embedded. Advanced project application consolidates the ability to apply the principles of documentation.

The experiential training period (also called ‘internship’) is a minimum of 18 weeks and is scheduled to take place during the second semester of the third year of the programme. The primary aim is to expose the students to the diversity of Interior Design in practice. The subject also engages with entrepreneurship, setting up a viable practice structure and engaging in public interest design.

Knowledge of the terminology and basic concepts and principles of design practice.

Knowledge of the contents of the various building contracts.

Knowledge of the terminology and basic concepts and principles of business practice.

Knowledge of the administrative and logistical support systems in a practice.

Awareness of the practice of design distribution and the roles of the other built-environment professions.

DESIGN 3 (ID)

Interior Design 3 consolidates knowledge of spatial awareness, the design process and ordering principles. Advanced discourse, vocabulary, history and contemporary theory are explored in depth in the context of local and international interior design specialists and precedent. Projects engage with an advanced critical investigation and analyses of precedent as well as the application of design knowledge in appropriately scaled projects for an Interior Designer.

Knowledge of the principles and terminology applicable to interior design.

Understanding of the fundamentals of the design process.

Ability to do thorough, appropriate planning.

Understanding of problem analysis.

Knowledge of social and environmental and cultural issues.

Ability to prepare an appropriate concept.

Knowledge of the basic spatial and aesthetic aspects appropriate to interior design.

Knowledge of interior design history in broad terms.

Awareness of theoretical and legislative documents pertaining to buildings of cultural significance.

Awareness of the role of the interior designer as taste-maker and cultural producer.

Awareness of design distribution and relevant responsibilities of the interior designer and the graphic designer.

Knowledge of the relevance of appropriate National Building Regulations (NBR) which pertains to way finding and signage.

Knowledge of various methods to obtain design integration in the creation of identity.

TECHNNOLOGY 3 (ID)

Interior Technology 3, facilitates understanding and reinforcement of the principles and application of advanced and complex construction methods and materials, components, junctions and the structural and mechanical principles of buildings. Projects focus on the ability to apply knowledge in the explorative detailing of the equivalent of a 2-3 storey building and extensive integrated furniture design and joinery detailing.

Knowledge of construction methods and uses for materials related to non-load bearing interior fit-out systems.

Ability to develop durable, cost-effective, climate responsive construction details.

Ability to conduct limited relevant research into construction methods and materials and the appropriate applications.

Knowledge of the various technological aspects relating to services.

Knowledge of the building regulations pertaining to all building services.

Knowledge of the following technological aspects and building services:

Drainage and water reticulation.

Electrical and electronic services and lighting.

Communications.

Air and gas supply.

Heating and cooling.

Fire protection and control.

Acoustics and sound systems.

Awareness of design distribution and relevant responsibilities of the interior designer and architect.

ADVANCED DIPLOMA INTERIOR DESIGN: YEAR 1 SUBJECTS

ENVIRONMENTAL DESIGN 4 [ND470S]

20 Credit Subject

Environmental Design 4 focuses on the identification, analysis and critical appraisal of the social, economic and environmental informants and the impact of responsive interior design decisions. It aims to provide the future interior professional with a valuable toolkit to responsibly act on the global environmental crisis.

The main content areas are context, climate and sustainable construction and indoor materials. Context includes awareness of interior landscape design, adaptive reuse in heritage buildings and health and well-being. Climate covers environmental legislation, passive design principles, and an awareness of environmental calculations and relevant supportive software. Sustainable construction includes an awareness of sustainable structures, sustainable services and systems, and sustainable materials and methods.

The knowledge, skills and attitudes developed in this subject are applied in Interior Design 4 and Interior Technology 4.

INTERIOR LITERACY 4 [INL470S]

10 Credit Subject

Interior literacy 4 stimulates intellectual, reflective and analytical skills, to formulate coherent interior design related arguments, as well as to develop design methodologies to solve interior challenges and be responsive to existing architectural and interior aesthetics, in a scholarly way.

It comprises two main knowledge areas, namely discourse and research. Discourse fosters understanding of current and past interior / architectural philosophies, movements and theories in relation to the South African context. It covers historical references and precedent, design informants, principles and process, and design vocabulary to engage in design conversation. Interior Literacy research, covers research design and methodology, and the formulation of logical and systematic argumentation.

The knowledge, skills and attitudes developed in this subject are applied in Interior Design 4 and Interior Technology 4.

INTERIOR PRACTICE 4 [INP470S]

20 Credit Subject

The **Interior Practice 4** subject aims to reinforce students' work-based learning in interior practice, and to prepare them for future registration as professional interior designers. It broadly covers conduct, contract and communication.

Conduct includes professionalism and ethics, alternative interior practice (including social design), outline of the professional bodies and registration with IID and (SACAP, optional). The importance of working with other built environment professionals, as well as office administration and systems, and professional development, for example self-regulation and meta-cognition. Content related to contract documentation and specification; and communication includes various forms of written, verbal and graphic (two dimensional, three dimensional, physical and digital) communication necessary to practice as an interior designer and work closely with architectural professionals. The knowledge, skills and attitudes developed in this subject are applied in Interior Design 4 and Interior Technology 4.
