

INSTITUT SUPERIEUR DE TECHNOLOGIES

Sarl au capital de 10 000 000

IFU 00003441L CMMBF OUA 2002 B00316/CNSS n°3111OR

Autorisation n°204/2000/MESSRS/DGESRS/SPdu 14 mars 2001

Agréé par le FAFPA (ministère de l'emploi)

Diplômes reconnus par le CAMES

Vingt (20) ans au service de la formation des ressources humaines

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BACHELOR OF ARCHITECTURAL TECHNOLOGY AND DESIGN

1. TITLE OF PROGRAMME

The programme shall be bachelor of architectural technology and design (**BADT**)

2 PREAMBLE

2.1 Background

The evolution of architectural forms is influenced by culture and fashion, society and economics, climate and geography, security and self-preservation.

For architecture to be able to respond to these factors, we need to apply technology.

In the past, technological limitations imposed restrictions on architecture. These days, technology is almost limitless and architectural expression can develop in exciting ways.

Gain a solid understanding of technological progression in construction, and where it sits within the history of architecture.

Study and apply design concepts and construction technologies to a range of building problems. Sketch and assess buildings that inspire and inform your work on day and residential field trips.

Learn from industry-experienced tutors and work on a series of live briefs for real clients in our well-equipped instrument. Collaborate with students across a range of disciplines and build your professional portfolio with practical design projects.

Take a year out to work in a professional practice and gain valuable real-world experience that improves your employability.

2.2 Justification

Drawing on our strong industry connections and competencies, you'll appreciate architectural theory as you complete practical design projects, delivered in a collaborative studio culture that reflects contemporary architecture practice and workplaces.

2.3 Target Group

The targeted group includes holders of:

Advanced Level Certificate of Education; An upper secondary education or equivalent, or a vocational education is required.

Diplomas in Engineering and other related Science and Technology fields;

Degrees in the Physical Sciences.

3. Programme Objectives

3.1. General Objectives

The general objectives of the programme are to:

- ❖ Design Representation
- ❖ History of Architecture
- ❖ Technology and Design Studio
- ❖ Commercial Development
- ❖ Procurement and Contract Practice.

3.2. Specific Objectives

By the end of the programme students should be able to:

- ❖ use appropriate building techniques to complete construction projects
- ❖ investigate building problems and present appropriate design solutions
- ❖ demonstrate confident communication and interpersonal skills
- ❖ work efficiently as part of project teams
- ❖ use IT to support projects.

- ❖ Explore digital technologies shaping the profession, as you gain hands-on experience using key equipment and software packages used by industry professionals

- ❖ Enhance your knowledge and eye for good design as you build an awareness of materials, industry regulations, contemporary production methods and end-user requirements

- ❖ Explore the role of nature, people and technology in design, and the physical, legal, economic, social and environmental dimensions that impact on the building design process

- ❖ Develop key skills in project appraisal, team working, critical analysis and problem solving as you prepare for a professional career role

Duration of the Programme: 4 years and one Year for advanced Diploma student

Programme Structure

Courses codes	Courses Names	Credit Units
	Year one	
	Semester one	
BADT 002	Architectural Drawing and Presentation Skills	4
CEN 402	Computer Application	4
BADT 400	Theories of Architecture	4
CCA 532	Ethics and Professional Engineering	4
BBA 011	Communication Skills	4
BST110	Introduction to Research Science	5
BADT111	General English	5
	Semester Two	
BADT120	Architecture Graphics I	5
BADT121	Architecture Design I and II	5
BADT122	Principles of Architectural Structures	5
BADT123	Material Science	5
BADT124	Engineering Mathematics	5
BADT125	Field Work	5
		60
	Year Two	
	Semester one	
BBA210	Computer Aided Design I	4
BADT 211	Physics	4
BADT212	Construction Technology in Architecture	4
BADT213	Building Design and Technology	4
BEN214	Innovation and Sustainability environment	4
BADT215	Architecture Design III	5
BADT 216	Conservation and Refurbishment of Buildings Methodology	5
		60
	Semester Two	
BADT 220	Geometry	6
BADT 221	Professional Practice, the business of Architectural Practice	6
BADT222	Advanced Research Methodology	6
BADT223	Architecture Design IV	6
BADT224	Practical Work(attachment)	6
		60
	Year Three	
	Semester One	
BEN310	Computer Aided Design II	5
BADT311	Strengths of Materials	5
BADT312	Structures Design I	5
BADT313	Environment Management Skills	5

BADT314	Architectural Science I	5
BADT315	Geometry II	5
	Semester Two	
BEN320	Law and Regulatory Controls relating to design of Buildings	5
BADT321	Architectural Science II	5
BADT322	Architectural Detailing	5
BADT323	Architecture Design V	5
BADT324	Seminar	5
BADT325	Structures Design II	5
		60
	Year Four	
	Semester One	
BADT410	Entrepreneurship and Development	6
BADT411	Landscape Design	6
BADT412	Organization Behavior	6
BADT413	Engineering Project	6
BADT414	Structures Design III	6
	Semester Two	
BADT425	Architecture Design VI	3
BEN426	Surveying in Architecture	3
BADT427	Internship	4
BADT428	Thesis and Defense	20
		60
GCU		180