

FIELD OF STUDY : CIVIL ENGINEERING

OPTION : CIVIL AND STRUCTURAL ENGINEERING

SPECIALTY : BUILDING SCIENCE AND TECHNOLOGY

1. OBJECTIVES OF TRAINING

This specialty leads to the training of specialists in building, with good knowledge in all the technics of a new construction or rehabilitation, as well as in the process of realisation of a piece of work. The student learns to manage a construction site in guaranteeing the advancement, the quality and safety.

2. EXPECTED SKILLS

❖ **General skills**

- Work independently, collaborate as a team ;
- Analysis and synthesis of professional documents (French, English) ;
- Oral, written and corporate communication skills within and without (French, English) ;
- Participate / engaged in the management of the project ;
- Know and make use of professional networks and institutions of Building sectors.

❖ **Specifics skills**

- Coordinate a construction site or a team of labor force in construction site ;
- Elaborate the estimates / quotes ;
- Draw setting out and architects plans, and interpret them ;
- Develop the briefings and prepare the record of works ;
- Assist the engineer in the design office or at the construction site ;
- Writing of reports on the construction site.

3. CAREER OPPORTUNITIES

- Head of construction site ;
- Foreman ;
- Draftsman ;
- Person in charge of prices ;
- Person in charge of transactions.

4. PROGRAM DURATION

For a period of two years, a set of theoretical and practical courses is administered to students with a view to obtaining a Higher National Diploma (NHD) sanctioned by MINESUP.

5. CONDITION FOR ADMISSION

Direct registration on file study :

- A hand written application addressed to the Director of SOUTH POLYTECH ;
- A complete registration form available on campus ;
- A photocopy of birth certificate ;
- A photocopy of A/L certificate ;
- Registration fees : 35,000 FCFA ;
- File study fees : free of charge ;
- Annual medical coverage : 5,000 F CFA.

6. PEDAGOGICAL APPROACH

- Lectures ;
- Practical work and personal work ;
- Immersion courses in the professions accompanied by a teaching body and company executives.

7. EVALUATION TECHNIQUES

- Continuous monitoring for each lecture ;
- An exam session (oral or written) at the end of each semester organised according to the subjects registered for the semester ;
- Writing of an internship report defended in front of a jury at the end of the cycle ;
- National HND exam.

8. ORGANISATION OF TEACHINGS

• FIRST SEMESTER

Code	Course titles	Number of credits
BST111	Mathematics 1	4
BST112	Physics and Chemistry 1	5
BST113	General construction processes	3
BST114	Design and building Technology	4
BST115	Sites organisation	5
BST116	Architecture and resistance of materials 1	6
BST117	Bilingual Training	3
Total		30

• **SECOND SEMESTER**

Code	Course titles	Number of credits
BST121	Mathematics II	4
BST122	Computer Science 1	5
BST123	Design office and projects	5
BST124	Topography 1	3
BST125	Reinforced concrete 1	4
BST126	Geotechnics and resistance of materials II	6
BST127	Creation of Company and Civic and Moral Education	3
Total		30

• **THIRD SEMESTER**

Code	Course titles	Number of credits
BST231	Mathematics III	4
BST232	Physics and Chemistry II	5
BST233	Equipment and Materials	5
BST234	Resistance of Materials III	3
BST235	Reinforced concrete II and Computer Assisted Drawing 1	6
BST236	Processes and technics of realisation	3
BST237	Methodology of drafting internship report / LAW	3
Total		30

• **FOURTH SEMESTER**

Code	Course titles	Number of credits
BST241	Statistics	4
BST242	Computer Science II	5
BST243	Design office II and Computer Assisted Drawing II	5
BST244	Foundations and retaining structures	3
BST245	Topography II and tests	4
BST246	Professional internship	6
BST247	Accounting and Economies	3
Total		30