

REPUBLIQUE DU CAMEROUN  
Paix – Travail – Patrie

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INSTITUT UNIVERSITAIRE BENGONO  
TOURE GENEVIEVE  
Scientiarum - Excellentiam - Nobel  
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REPUBLIC OF CAMEROON  
Peace-Work-Fatherland

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THE BENGONO TOURE GENEVIEVE  
UNIVERSITY INSTITUTE  
SCIENTIARUM – EXCELLENTIAM – NOBEL  
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**INSTITUT SUPERIEUR DES SCIENCES DE L'INGENIEUR, DES INDUSTRIES ET DE L'INNOVATION**  
**THE HIGHER INSTITUTE OF ENGINEERING SCIENCES, INDUSTRIES AND INNOVATION**

Campus de Yaoundé (Quartier de Ndjoungolo-Rue Ceper et de Mvog-Mbi) – BP. : 11618 Yaoundé – Cameroun /  
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**BACHELOR'S IN BUILDING AND TECHNOLOGY**

| <b>CODES</b> | <b>COURSE NAMES</b>                            | <b>CREDIT</b> |
|--------------|--|---------------|
|              | <b>YEAR ONE</b>                                |               |
| BCEBT1110    | Introduction to research science               | 4             |
| BCEBT1111    | Communication skills                           | 3             |
| BCEBT1112    | Engineering mathematics I                      | 3             |
| BCEBT1113    | Physics (theories )                            | 3             |
| BCEBT1114    | Thermodynamics                                 | 3             |
| BCEBT1115    | Industrial Training I                          | 3             |
| BCEBT1116    | Production Technology I                        | 3             |
| BCEBT1117    | Engineering Drawing                            | 3             |
| BCEBT1118    | Electrical Technology                          | 3             |
| BCEBT1119    | Ethics and professional engineering            | 3             |
| BCEBT1120    | Environmental Technology                       | 3             |
| BCEBT1121    | Computer application                           | 3             |
| BCEBT1122    | Industrial Training I                          | 3             |
| BCEBT1123    | General Chemistry                              | 3             |
| BCEBT1124    | Introduction to Construction Plan & Scheduling | 3             |
| BCEBT1125    | Surveying I                                    | 3             |
| BCEBT1126    | Physics Lab                                    | 3             |
| BCEBT1127    | Calculs I and II                               | 3             |
| BCEBT1128    | Field Work                                     | 3             |
|              |  | 60            |
|              | <b>YEAR TWO</b>                                |               |
| BCEBT2110    | Statistical Reasoning                          | 3             |
| BCEBT2111    | Engineering Drawing II                         | 3             |

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|-----------|---|----|
| BCEBT2112 | Material Science                          | 3  |
| BCEBT2112 | Environmental Engineering                 | 3  |
| BCEBT2113 | Engineering System Analysis               | 3  |
| BCEBT2114 | Engineering Mathematics II                | 3  |
| BCEBT2115 | Geographical Information System (GIS)     | 3  |
| BCEBT2116 | Engineering Drawing III                   | 3  |
| BCEBT2117 | Industrial Training II                    | 3  |
| BCEBT2118 |   | 3  |
| BCEBT2119 | Transportation Engineering                | 3  |
| BCEBT2120 | Building Structures                       | 3  |
| BCEBT2121 | Mechanics and Transport by Flow           | 3  |
| BCEBT2122 | Soil Site Improvement                     | 3  |
| BCEBT2123 | Remote Sensing For Mapping                | 3  |
| BCEBT2124 | Pavement Design                           | 3  |
| BCEBT2125 | Bridge Structural Design                  | 3  |
| BCEBT2126 | Differential Equation with Linear Algebra | 3  |
| BCEBT2127 | Integral Design of Infrastructure         | 3  |
| BCEBT2128 | Professional Practice I                   | 3  |
|           |   | 60 |
|           | <b>YEAR THREE</b>                         |    |
| BCEBT3110 | Light-Frame Construction Technology       | 3  |
| BCEBT3211 | Construction Drawing                      | 3  |
| BCEBT3213 | Topographic Drawing                       | 3  |
| BCEBT3112 | Civil Engineering Practice                | 3  |
| BCEBT3212 |   | 3  |
| BCEBT3113 | GIS Programming                           | 3  |
| BCEBT3114 | Geotechnical Engineering                  | 3  |
| BCEBT3115 |   | 3  |
|           | Railroad Engineering & Design             |    |
| BCEBT3116 | Design Masonry/Timber Structures          | 3  |
| BCEBT3117 | Statistical Tools Engineers               | 3  |
| BCEBT3118 | Advanced Dynamic Structure                | 3  |
| BCEBT3119 | Reinforced concrete design II             | 3  |
| BCEBT3120 | Structural Engineering                    | 3  |
| BCEBT3121 | Concrete Structures 2                     | 3  |
| BCEBT3122 | Least Square Estimation                   | 3  |
| BCEBT3123 | Mechanics of Solids                       | 3  |
| BCEBT3124 | Electric Circuits I Lab                   | 3  |
| BCEBT3125 |   | 3  |
| BCEBT3126 | Probability and Statistics                | 3  |
| BCEBT3110 | Professional Practice II                  | 3  |
|           |   | 60 |
|           | <b>YEAR FOUR</b>                          |    |
| BCEBT4114 | Principle of Geotechnical Engineering Lab | 3  |

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| BCEBT4115 | Mechanics of Solids & Materials Lab    | 3  |
| BCEBT4116 | Traffic and Transportation Engineering | 3  |
| BCEBT4117 | Theory of Structures                   | 3  |
| BCEBT4118 | Hydraulics and Hydrology               | 3  |
| BCEBT4119 | Design of Steel Structures             | 3  |
| BCEBT4120 | Water Resources Engineering            | 3  |
| BCEBT3121 | Foundation Design                      | 3  |
| BCEBT4122 | Construction Project management        | 3  |
| BCEBT4123 | Reinforced Concrete Design             | 3  |
| BCEBT4125 | Internship                             | 10 |
| BCEBT4126 | Dissertation                           | 20 |
|           |  | 60 |
|           |  |    |