

**SURIGAO STATE COLLEGE OF TECHNOLOGY**

Surigao City

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY***(Ladderized Program)*

Proposed Curriculum, Effective A.Y. 2013-2014

**FIRST YEAR*****First Semester***

| SUBJECT      | DESCRIPTION                              | LEC       | LAB      | UNITS     | PREREQUISITE |
|--------------|--|-----------|----------|-----------|--------------|
| IT 111       | IT Fundamentals w/ Software Applications | 2         | 3        | 3         | None         |
| IT 112       | IT Professional Ethics                   | 3         | 0        | 3         | None         |
| Engl 1       | Communication Arts 1                     | 3         | 0        | 3         | None         |
| Math 1       | College Algebra                          | 3         | 0        | 3         | None         |
| Fil 1        | Komunikasyon sa Akademikong Filipino     | 3         | 0        | 3         | None         |
| Nat Sci 1    | Environmental Science                    | 3         | 0        | 3         | None         |
| Hist 1       | Philippine History and Culture           | 3         | 0        | 3         | None         |
| PE 1         | Physical Fitness and Health              | 2         | 0        | 2         | None         |
| NSTP 1       | National Service Training Program 1      | 3         | 0        | 3         | None         |
| <b>Total</b> |  | <b>25</b> | <b>3</b> | <b>26</b> |              |

***Second Semester***

| SUBJECT      | DESCRIPTION  | LEC       | LAB      | UNITS     | PREREQUISITE |
|--------------|--|-----------|----------|-----------|--------------|
| IT 121       | Digital Design   | 3         | 0        | 3         | Math 1       |
| IT 122       | Computer Programming with Logic Formulation and Flowcharting | 2         | 3        | 3         | IT 111       |
| Engl 2       | Communication Arts 2   | 3         | 0        | 3         | Engl 1       |
| Fil 2        | Pagbasa't Pagsulat Tungo sa Pananaliksik                     | 3         | 0        | 3         | Fil 2        |
| Math 2       | Trigonometry   | 3         | 0        | 3         | Math 1       |
| Econ 1       | Basic Economics with TAR                                     | 3         | 0        | 3         | None         |
| Psych 1      | General Psychology   | 3         | 0        | 3         | None         |
| PE 2         | Rhythmic Activities  | 2         | 0        | 2         | PE 1         |
| NSTP 2       | National Service Training Program 2                          | 3         | 0        | 3         | NSTP 1       |
| <b>Total</b> |  | <b>25</b> | <b>3</b> | <b>26</b> |              |

**SECOND YEAR*****First Semester***

| SUBJECT      | DESCRIPTION                                   | LEC       | LAB      | UNITS     | PREREQUISITE  |
|--------------|---|-----------|----------|-----------|---------------|
| IT 211       | Introduction to Internet with Web Programming | 2         | 3        | 3         | IT 111        |
| IT 212       | Data Structures and Algorithm                 | 2         | 3        | 3         | IT 122        |
| IT 213       | Quality Consciousness, Habits and Processes   | 3         | 0        | 3         | IT 112        |
| IT 214       | Discrete Structures                           | 3         | 0        | 3         | IT 121/Math 2 |
| IT 215       | Accounting Principles                         | 3         | 0        | 3         | Math 2        |
| Math 3       | Analytic and Solid Geometry                   | 3         | 0        | 3         | Math 2        |
| Engl 3       | Speech and Oral Communicaiton                 | 3         | 0        | 3         | Engl 2        |
| Phys 1       | College Physics 1                             | 3         | 3        | 4         | Mth 2         |
| PE 3         | Individual and Dual Sports                    | 2         | 0        | 2         | PE 2          |
| <b>Total</b> |   | <b>24</b> | <b>9</b> | <b>27</b> |               |

***Second Semester***

| SUBJECT | DESCRIPTION                       | LEC | LAB | UNITS | PREREQUISITE |
|---------|-----------------------------------|-----|-----|-------|--------------|
| IT 221  | Computer Systems Organization     | 3   | 0   | 3     | IT 214       |
| IT 222  | Database Management System        | 2   | 3   | 3     | IT 214       |
| IT 223  | Object-Oriented Programming (OOP) | 2   | 3   | 3     | IT 122       |

|         |  |             |             |           |        |
|---------|--|-------------|-------------|-----------|--------|
| IT 224  | Network Design and Management                      | 3           | 0           | 3         | IT 214 |
| IT 225  | IT Elective1 (Computer Aided Design (CAD))         | 2           | 3           | 3         | IT 111 |
| IT 226  | IT Elective 2 (Installation Hardware and Software) | 3           | 0           | 3         | IT 214 |
| Philo 1 | Logic  | 3           | 0           | 3         | None   |
| PE 4    | Team Sports  | 2           | 0           | 2         | PE 3   |
| Jeep 02 | JEEP Start 02                                      | 1.5         | 4.5         | 3         | Engl 3 |
| Total   |  | <b>21.5</b> | <b>13.5</b> | <b>26</b> |        |

**TVET Exit Point - Qualification : Computer Hardware Servicing NCII**

**THIRD YEAR**  
**First Semester**

| SUBJECT  | DESCRIPTION                                  | LEC         | LAB         | UNITS     | PREREQUISITE     |
|----------|--|-------------|-------------|-----------|------------------|
| IT 311   | IT Technical Writing and Presentation Skills | 2           | 3           | 3         | Engl 2, IT 111   |
| IT 312   | Software Engineering                         | 3           | 0           | 3         | IT 225           |
| IT 313   | Systems Analysis and Design                  | 3           | 0           | 3         | Regular 3rd year |
| IT 314   | Free Elective 1 (Wireless Technologies)      | 2           | 3           | 3         | IT 224           |
| IT 315   | Multimedia with Basic Animation              | 2           | 3           | 3         | IT 225           |
| IT 316   | Visual Graphics Design I                     | 2           | 3           | 3         | Regular 3rd year |
| IOM      | Industrial Organization and Management       | 3           | 0           | 3         | IT 215           |
| SocSci 1 | Society & Culture with Pop Ed & FP           | 3           | 0           | 3         | None             |
| Jeep 03  | Jeep Start Accelerate 01                     | 1.5         | 4.5         | 3         | Jeep Start 02    |
| Total    |  | <b>21.5</b> | <b>16.5</b> | <b>27</b> |                  |

**TVET Exit Point - Qualification : Basic Animation NC II**

**Second Semester**

| SUBJECT   | DESCRIPTION                                      | LEC         | LAB         | UNITS     | PREREQUISITE    |
|-----------|--|-------------|-------------|-----------|-----------------|
| IT 322    | Web Based Programming and Application            | 2           | 3           | 3         | IT 211 / IT 223 |
| IT 323    | Capstone Project I                               | 3           | 0           | 3         | IT 312 / IT 313 |
| IT 324    | Relational DBMS                                  | 2           | 3           | 3         | IT 222          |
| IT 325    | Applied Operating System                         | 3           | 0           | 3         | IT 221 / IT 212 |
| IT 326    | IT Elective 3 (Game Development)                 | 2           | 3           | 3         | IT 316          |
| IT 327    | 2D Animation                                     | 2           | 3           | 3         | IT 315          |
| Pol Sci 1 | Politics & Government w/ Philippine Constitution | 3           | 0           | 3         | None            |
| Hum 1     | Art Appreciation                                 | 3           | 0           | 3         | None            |
| Jeep 04   | Jeep Start Accelerate 02                         | 1.5         | 4.5         | 3         | Jeep Start 03   |
| Total     |  | <b>21.5</b> | <b>16.5</b> | <b>27</b> |                 |

**TVET Exit Point - Qualification : 2D Animation NC III**

**Visual Graphic Design NC III**

**FOURTH YEAR**  
**First Semester**

| SUBJECT | DESCRIPTION                                   | LEC | LAB | UNITS | PREREQUISITE     |
|---------|---|-----|-----|-------|------------------|
| IT 411  | Capstone Project II                           | 3   | 0   | 3     | Regular 4th year |
| IT 412  | Network Administration                        | 3   | 0   | 3     | Regular 4th year |
| IT 413  | Free Elective 2 (Creative Computing Studies)  | 2   | 3   | 3     | Regular 4th year |
| IT 414  | IT Elective 4 (Management Information System) | 3   | 0   | 3     | Regular 4th year |
| IT 415  | Free Elective 3 (Mobile Application)          | 2   | 3   | 3     | IT 322           |
| IT 416  | 3D Animation                                  | 2   | 3   | 3     | IT 327           |
| IT 417  | IT Special Topics and Seminars                | 3   | 0   | 3     | Regular 4th year |
| Rizal 1 | Rizal's Life and Works                        | 3   | 0   | 3     | None             |

|       |                       |             |          |           |      |
|-------|-----------------------|-------------|----------|-----------|------|
| Lit 1 | Philippine Literature | 3           | 0        | 3         | None |
| Total |                       | <b>24.0</b> | <b>9</b> | <b>27</b> |      |

**TVET Exit Point - Qualification : 3D Animation NC III**

**Programming NC IV**

**Second Semester**

| <b>SUBJECT</b> | <b>DESCRIPTION</b>                       | <b>LEC</b> | <b>LAB</b> | <b>UNITS</b> | <b>PREREQUISITE</b> |
|----------------|--|------------|------------|--------------|---------------------|
| IT 421         | On-the-Job Training/Internship (500 hrs) | 0          | 0          | 12           | Regular 4th year    |
| Total          |  | <b>0</b>   | <b>0</b>   | <b>12</b>    |                     |

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IT Elective 1 - Computer Aided Design  
 IT Elective 2 - Installation Hardware and Software  
 IT Elective 3- Game Development  
 IT Elective 4 - Management Information System

Free Elective 1 - Wireless Technologies  
 Free Elective 2 - Creative Computing Technologies  
 Free Elective 3 - Mobile Applications