

### VISION OF EVSU

A Leading State University in Technological and Professional Education.

### MISSION OF EVSU

Develop a strong technologically and professionally competent productive human resource imbued with positive values needed to propel sustainable development.

### Core Values:

Excellence, Value-laden, Service-driven, Unity in Diversity

### COE VISION

A leading State University in the fields of engineering and technology supportive of regional and national development.

### COE MISSION

To produce graduates with a quality education to prepare them to become technologically and professionally competent productive human resource imbued with positive values needed to propel sustainable development of the society.

### PROGRAM EDUCATIONAL OUTCOMES

The Graduates of the Bachelor of Science in Geodetic Engineering five years after graduation shall:

**PEO1.** Demonstrate as a technical expertise in the field of Geodetic Engineering and adapting the changing field of the profession,

**PEO2.** Demonstrate leadership and initiative to facilitate the advancement of professional and organizational goal, and

**PEO3.** Pursue a lifelong learning in the field of profession and continuous development.

### PROGRAM OUTCOMES

- a. Apply knowledge of mathematics, physical sciences, and engineering sciences to the practice of geodetic engineering
- b. Design and conduct experiments to test hypotheses and verify assumptions, as well as to organize, analyze and interpret data, draw valid conclusions, and develop mathematical models for processes
- c. Design, improve, innovate, and to supervise systems or procedures to meet desired needs within realistic constraints
- d. Work effectively in multi-disciplinary and multi-cultural teams in diverse fields of practice
- e. Identify, formulate, and solve geodetic engineering problems
- f. Understand the effects and impact of the geodetic engineering profession on the environment and the society, as well as the social and ethical responsibilities of the profession
- g. Specialized knowledge in at least one focus area of geodetic engineering practice and the ability to apply such knowledge to provide solutions to actual problems.
- h. Effectively oral and written communications particularly in the English language
- i. Engage in life-long learning and to keep current of the development in a specific field of specialization
- j. Used the appropriate techniques, skills and tools necessary for the practice of geodetic engineering
- k. Gain knowledge in contemporary issues under the program

### GENERAL BACKGROUND

The Bachelor of Science in Geodetic Engineering Program is a five year program. It is one of the eight undergraduate programs offered by the College of Engineering of the Eastern Visayas State University. The curriculum design of the Geodetic Engineering degree program has undergone revisions and is periodically updated to conform to the standards set by CHED and the Technical Panel for Engineering, Architecture and Maritime Education (TPEAME). It is designed to provide a well-balanced education in social sciences, mathematics, the physical sciences and the major areas of Geodetic engineering, such as land survey, Construction survey, Photogrammetry, Remote Sensing and Geographic Information System

### ADMISSION REQUIREMENTS

#### Incoming First Year Students:

First year applicants whose grades meet the minimum requirements must pass the Interview & Entrance Exam given by the University. Qualifiers must submit the following requirements upon enrolment:

1. Original Certificate of Good Moral Character
2. Original Form 138 or 137
3. 2 pcs 2x2 colored pictures
4. Certified photocopy of Live Birth Certificate
5. 1 Long Brown Envelope

#### Transferees:

Transferees from other schools must present his/her Transcript of Records to the Department Head for evaluation before the start of Entrance Exam and must submit the following upon enrolment:

1. Honorable Dismissal
2. Original Transcript of Records
3. Certified photocopy of Live Birth Certificate from NSO
4. 2 pcs 2x2 colored pictures
5. 1 Long Brown Envelope

#### Shiftees:

Students from other programs of the Institute who would like to shift to the Geodetic Engineering program must obtain a certified copy of grades from the Registrar's Office for evaluation purposes. His/Her weighted average must be 2.0 or better to be accepted into the program. With no failure form math and science subject

#### Returnees:

Returnees must present their student clearance prior to enrollment.

## MINIMUM REQUIREMENT FOR THE DEGREE BSGE

### 1. TECHNICAL COURSES

#### **A. Mathematics**

- \* College Algebra
- \* Advance College Algebra
- \* Analytic Geometry
- \* Integral Calculus
- \* Probability & statistics
- \* Plane & Spherical Trigonometry
- \*Solid Mensuration
- \* Differential Calculus
- \*Differential Equation
- \*Advanced Engineering Math

#### **B. Physical Science**

- \* Chemistry 1 & 2
- \* Physics 1 & 2

#### **C. Basic Engineering Sciences**

- \* Engineering Drawing
- \* Computer and Internet Literacy
- \* Computer Aided Drafting
- \* Computer Fundamentals and Programming
- \* Statics & Dynamics of Rigid Bodies
- \* Eng'g Economy
- \* Safety Management
- \* Engineering Management
- \* Environmental Eng'g

#### **D. Allied Courses**

- \* Principle of Geology
- \* Information and Communication Technology
- \* Basic Electrical Engineering

#### **E. Professional Courses**

- \* General Surveying 1
- \* Cartography
- \* Introduction to Remote Sensing and GIS
- \* Electronic Surveying and Instrumentation
- \* GE laws on contracts and Professional ethics
- \* Elementary Geomatics
- \* Construction & Industrial Surveys
- \* Physical Geodesy
- \* Property Survey 1 and 2
- \* Theory of Errors and Adjustment
- \* Mine Surveying
- \* Map Projections
- \* Public land laws and laws in natural resources
- \* Developmental Planning
- \* Geodetic Computation and Adjustment
- \* Land Registration law and Elementary Procedure
- \* laws in Property
- \* Land Administration and Management
- \* Special Studies in Geodetic Engineering
- \* Elective 1 and 2
- \* General Surveying 2
- \* Geometric Geodesy
- \* Photo interpretation and RS
- \* Photogrammetry 1 and 2
- \* Hydrography
- \* Computer Application in Geomatics
- \* GIS
- \* Geodetic Astronomy
- \* Satellite Geodesy
- \* Land Economics and Valuation
- \* Geodetic Surveying

### 2. NON- TECHNICAL COURSES

#### **A. Language, Humanities and Social Science**

- \* English 1,2,3,4
- \* Life and Work of Rizal
- \* Social Science 1,2,3,4
- \* Hum/ Lit 1,2,3
- \* Filipino 1,2

#### **B. Miscellany**

- \* PE 1,2,3,4
- \* NSTP 1,2

## DEPARTMENT PROFILE

**DR. ANNABELLE B. PILAPIL**

Dean, College of Engineering

**DR. DIOSCORO Y. MANCAO JR**

Asst. Dean, College of Engineering

**DR. GABINO C. HILVANO**

Head, Geodetic Engineering Department

Faculty Members:

**Engr. MARK CORNELLIUS FIGUEROA**

(On Study Leave)

**Engr. TOMAS D. ADVINCULA**

**Engr. ROMES S. BONGBONGA**

Part-time Lecturers

**Engr. EVELYN C. AMAGO**

**Engr. DIOLETA C. VILAS**

**Engr. JULIUS VANLENZUELA**

**For more particulars please contact:**

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## **EASTERN VISAYAS STATE UNIVERSITY TACLOBAN CITY**



COLLEGE OF ENGINEERING  
GEODETIC ENGINEERING DEPARTMENT

## **BACHELOR OF SCIENCE IN GEODETIC ENGINEERING**



**GE** INTRODUCTORY INFORMATION