ROMBLON STATE UNIVERSITY
College of Engineering and Technology
Department of Civil Engineering

COURSE SYLLABUS
CE 3211 Laws, Ethics and Contracts
2nd Semester SY 2020 - 2021

RSU VISION

A research-based academic institution committed to excellence and service in nurturing globally competitive workforce towards sustainable development.

RSU MISSION

Romblon State University shall:
(1) nurture an academic environment that provides advanced education, higher technological and professional instruction and technical expertise in agriculture and fisheries, forestry, engineering and technology, education, humanities, sciences and other relevant fields of study; and
(2) collaborate with other institutions and communities through responsive, relevant and research-based extension services.

COLLEGE GOAL

The College of Engineering and Technology (CET) is committed to provide relevant and quality training for students in engineering and related fields consistently to satisfy the needs of regional and national development trusts.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The Civil Engineering Program Educational Objectives and Relationship to RSU Mission:

Within 3 to 5 years after graduation, the program expects that the Civil Engineering graduates will:	MISSION	
	1	2
1) Attain technical and managerial skills in planning, design, construction, operation, management and maintenance of the built environment and global infrastructures and utilizing their skills to analyze and design systems, specify project methods and materials.	√	√
2) Establish a technical expertise and become a total engineer utilizing his knowledge in arts, sciences and communication skills in oral, written, visual and graphic modes when working as a team members or leaders, so they can actively participate in their communities and their profession.	√	√
3) Establish an understanding of professionalism, ethics quality performance, public policy, safety, and sustainability that allows them to be professional leaders and contributors to society when solving engineering problems and producing civil engineering solutions through research and development.		√
4) Initiate an active program of life-long learning, including studies leading to professional licensure or an advanced degree in engineering that provides for continued development of their technical abilities and management skills and attainment of professional expertise.		√

COURSE INFORMATION

Course Code:	CE 3211
Course Title:	CE Laws, Ethics and Contracts
Course Description:	*This course deals on the principles and fundamentals of the laws on obligations, contracts, and professional ethics that are applicable to the civil engineering profession. It is designed to prepare civil engineering students for professional practice. Topics on the perspective of the student as future practitioners, contractors, and employees in the field are also given emphasis. These include the study of code of ethics, legal procedures in the practice of civil engineering in the Philippines; ethical relations of an engineer with fellow professionals, clients, and the general public; elements of contracts, obligations, Civil Engineering Law (RA544), National Building Code, labor laws, E-Procurement Law, and the Manual of Professional Practice for Civil Engineers.*
Credit Units	2 units
Lecture hours	2
Laboratory hours	0
Pre-requisite	4th Year standing

STUDENT OUTCOMES

Upon completion of the program, the Romblon State University Civil Engineering students will demonstrate:	PEO			
	1	**2**	**3**	**4**
a) An ability to apply knowledge of mathematics, physical, life and information sciences, and engineering sciences appropriate to the field of practice	√	√	√	√
b) An ability to design and conduct experiments, as well as to analyze and interpret data	√	√	√	
c) An ability to design a system, component, or process to meet desired needs within identified constraints	√	√	√	√
d) An ability to work effectively in multi-disciplinary and multi-cultural teams			√	√
e) An ability to recognize, formulate, and solve civil engineering problems	√	√	√	
f) Recognition of professional, social, and ethical responsibility	√	√	√	√
g) An ability to effectively communicate orally and in writing using the English language	√	√	√	√
h) An understanding of the effects of engineering solutions in a comprehensive context	√	√	√	√
i) An ability to engage in life-long learning and an understanding of the need to keep current of the developments in the specific field of practice.			√	√
j) Knowledge of contemporary issues			√	√
k) An ability to use techniques, skills and modern engineering tools necessary for engineering practice	√	√	√	√
l) Knowledge and understanding of engineering and management principles as a member and leader in a team to manage projects and in multidisciplinary environments			√	√
m) An appreciation of “Filipino historical and cultural heritage” (based on RA772)			√	√

COURSE OUTCOMES

Course Outcomes(COs) : At the end of the course, the student will be able to:		Student Outcomes												
		a	b	c	d	e	f	g	h	i	j	k	l	m
CO-1	***Explain*** the Civil Engineering Codes of Ethics which includes the fundamental principles and canon						**D**	**E**						
CO-2	***Explain*** the laws governing the practice of civil engineering profession in the Philippines						**D**	**E**						
CO-3	***Give*** examples of modes of procurement and standard contract documents						**D**	**E**				**E**		
CO-4	***Appraise*** the civil engineering fundamental principles and canons in oral presentations						**D**	**E**				**E**		

Note: I - An introductory course to an Outcome
E - Enabling
D - Demonstrate

COURSE REQUIREMENTS

1. Online Attendance/Participation via Google Classroom/Meet-up
2. Homework/Assignments
3. Quizzes/Major Examination
4. Final Group Work/Project

COURSE GRADING SYSTEM

Grading will be as follows:

Attendance/Class Participation/Assignment/Homework/Quiz	40%
Midterm and Final Examinations/Groupwork	60%

Methods of Computation

Percentile shall be used in recording grades when evaluating students using the formula below.

$$Final\,Grade = \frac{Midterm\,Grade + Final\,Term\,Grade}{2}$$

Grades Equivalent

Rating	*Grade*
96 - 100	1.00
91 - 95	1.25
86 - 90	1.50
81 - 85	1.75
76 - 80	2.00
71 - 75	2.25
66 - 70	2.50
61 - 65	2.75
60	3.00
Conditional	4.00
Below 60	5.00

CONDITIONAL is not a grade. It is given to students that lacks necessary requirements and therefore, must be accomplished before the end of that semester to obtain a grade. INCOMPLETE (INC) is reflected in the university online grading/report system as a mark given to the students for major compliance in the subjects which requires a Completion Form from the Registrar to be filled-up and accomplished within a year, otherwise noncompliance is a final grade of 5.0. WITHDRAW (W) is also reflected in the online grading/report system to indicate that the student withdraw or did not finish/complete the subject.

COURSE POLICIES

- Online login/participation is necessary for each student to obtain maximum benefits for instruction. It is expected that the students regularly visit the websites (Weebly, Google Classroom; and Canvas or Moodle are optional platforms); and active participation in the online discussion/forums will be monitored regularly. Observe proper online etiquette (politeness) in posting messages in the discussion forums.
- Projects and online homework/assignments must be submitted on time. Point deduction will apply to late submission of individual projects and homework/assignments. Online quizzes will be given on a specified time and to be announced ahead of time. Make-up online quizzes will be given only for those who have valid reasons of missing the quizzes/examinations.
- Online major examinations (Mid-term and Final) are optional and to be announced ahead of time. Make-up online examinations will be given depending on the availability of the students. It might be given on-site or face-face provided that necessary arrangements will be made.
- Lacking in assignments/quizzes/examinations at the end of the course, automatically marks INCOMPLETE GRADE, unless submitted prior to the submission of the final grades to the Registrar.
- **Students are required to have a notebook for the subject**. It is expected that all students will take notes during class and will study these notes. Handouts should be downloaded or photocopied. Assignments will be handwritten in the notebook and images/photos of these assignments will be submitted electronically via Google Classroom or ARAL system.
- No sharing of homework/assignments electronically or any means of copying others outputs.
- Personal laptops, cell phones and other electronic gadgets are strongly encouraged to use for the online learning. Visit to computer shops are still acceptable but maintain social distancing and wearing ng face masks/shields.
- Face-to-face group studying and peer teaching are also encouraged to enhance the knowledge and skills but proper protocols such as social distancing and wearing of face masks and shields will be strictly observed.
- Any form of online cheating will not be tolerated. Any violation will be dealt properly.

- **Plagiarism is not tolerated in the preparation of written reports, thus proper citation and referencing are necessary**.

STUDENTS WITH SPECIAL NEEDS

Students who have any disability that might affect their performance in the online class are encouraged to speak with the instructor early in the semester to address their needs.

COURSE OUTLINE (BLENDED)

Week	Topic	Course Outcome (CO) Learning Outcome (LO)	Teaching-Learning Activities	Assessment Technique/ Task
1	Pre-recorded Online College Orientation via CET Facebook Page Online Course Orientation via Google Classroom/Meet-up, Weebly (while CANVAS and MOODLE are optional platforms) concerning course syllabus/contents, class policies and requirements on the online learning modalities	LO1 **Familiarize** the online learning modalities of the university, including the course platform through Google Classroom/Meet-up and alternative online learning systems and requirements	Present the course design thru multi-media presentation and websites Watch the pre-recorded online university/college orientation video presentation Module #1/Handout#1 and other reading/reference materials are downloaded from the website Lecture, Class Discussion, Question/Answer (Q/A)	Reflective short essay
	General Introduction on Relevant Laws and the regulations in the Practice of Civil Engineering Profession in the Philippines Relevant Definition of Terms Introduction to Engineering Profession Engineering Professional Ethics and Values The Engineer at Work: Employment; Professional Development and Benefits	CO1 **Explain** the Civil Engineering Codes of Ethics which includes the fundamental principles and canon LO2 **Define** relevant terms used in engineering profession LO3 **Differentiate or distinguish** the work of an engineer and that of other professionals	Lecture, Group Discussion/Q&A	Assignment Homework Google Classroom Forum/Participation
2	Republic Act 544: An Act to Regulate the Practice of Civil Engineering in the Philippines PICE Manual of Professional Practice for Civil Engineers –	CO1 **Explain** the Civil Engineering Codes of Ethics which includes the fundamental principles and canon	Module #2/Handout#1 and other reading/reference materials are downloaded from the website	Assignment Homework Google Classroom

	Code of Ethics; Section 1: The Practice of Civil Engineering Introduction to the Group Work Requirements Section 2: Classification of Engineering Services	CO2 **Explain** the laws governing the practice of civil engineering profession in the Philippines LO4 **Enumerate** the fundamental principles and fundamental canons for Civil Engineers LO5 **Classify or categorize** the different services provided by Civil Engineers	Lecture, Class Discussion, Google Classroom Forum Question/Answer (Q/A)	Forum/Participation
3	PICE Manual of Professional Practice for Civil Engineers Section 3: The Selection of the Civil Engineer Section 4: Charging for Civil Engineering Services; Section 5: Total Project Cost Other Relevant Laws and Regulations on Obligations and Contracts RA 9184: The Government Procurement Reform Act	CO1-CO2 CO3 **Give** examples of modes of procurement and standard contract documents LO6 **Describe** the process or basis for selection and engagement of a Civil Engineer LO7 **Familiarize** with the charging methods for civil engineering services and computational analysis for the total project cost	Module #3/Handout#1 and other reading/reference materials are downloaded from the website Lecture, Class Discussion, Question/Answer (Q/A)	Google Classroom Forum/Participation MidTerm Examination Progress Group Work Report
4	Special Topics: Trends and Issues Concerning Civil Engineering Practice: Role of Civil Engineering Professionals in the Fourth Industrial Revolution (FIRe); PRC Licensure Examination; and Continuing Professional Development (CPD)	CO-4 **Appraise** the civil engineering fundamental principles and canons in oral presentations LO8 **Create** and **submit** a company flyer/brochure and a website that applies the fundamental principles of the civil engineering profession and services	Module #4/Handout#1 and other reading/reference materials are downloaded from the website Lecture, Class Discussion, Question/Answer (Q/A) Google Classroom Forum	Google Classroom Forum/Participation Assignment Case Study
5	Group Work Presentation and Report Submission		Class Discussion Group Presentation Question/Answer (Q/A)	Final Examination Group Work Report

LIST OF RESOURCES

Relevant Websites

www.rsucivilengineering.weebly.com
www.brainitiativesph.com
https://classroom.google.com/u/3/c/MTU1Njc3MTkwMzI4
Class code**: 2re6iua**

Reading Materials

Department of Budget and Management – MIMAROPA Region (n.d.). *Training-Workshop on Republic Act No.9184 (Government Procurement Reform Act) and its 2016 Revised Implementing Rules and Regulations (IRR)*, Quezon City.

Fajardo, M.B. (1999). *Specifications and Contracts*, Manila: 5138 Trading.

Department of Budget and Management, Government Procurement Policy Board Technical Support Office (2015). *Handbook Revised IRR of RA 9184 and Latest GPPB Issuances*, Pasig City.

Harris, C.E., Pritchard, M.S. & Rabins, M.J. (2012). *Engineering Ethics*, Philippine Edition, Pasig City: Cengage Learning Asia Pte Ltd.

Martin, M.W. & Schinzinger, R. (2010). *Introduction to Engineering Ethics*, 2nd Edition, New York: MGraw-Hill Companies, Inc.

Martin, M.W. & Schinzinger, R. (2005). *Ethics in Engineering*, 4th Edition, New York: McGraw-Hill Companies, Inc.

Mead, D.W. (1978). *Contracts, Specifications, and Engineering Relations*, 3rd Edition, Manila: Merriam & Webster Bookstore, Inc.

Mendoza, Q. C. (1998). *Engineering Contracts, Specifications and Ethics, Revised Edition*, Manila: REX Book Store.

Moaveni, S. (2014). *Engineering Fundamentals*, Pasig City: Cengage Learning Asia Pte Ltd.

Philippine Institute of Civil Engineers Inc. (2011). *Manual of Professional Practice for Civil Engineers, 3rd Edition*, Manila: PICE.

Roa, F. C. (2011). *Business Ethics and Social Responsibility*, 2nd Edition, Manila: REX Book Store.

INPUTS/REMARKS:

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Prepared by:	Reviewed by:	Approved by:	Noted by:
ENGR. REYNALDO P. RAMOS, PhD	**ENGR. APRILLE ANN M. SIM**	**ALFREDO F. FORTU, JR. PhD**	**EMELYN R. VILLANUEVA, PhD**
Instructor/Professor	Chairperson, ME Dept.	Dean, CET	VPAA