



Kalinga State University
COLLEGE OF CRIMINAL JUSTICE EDUCATION
SYLLABUS

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COURSE CODE: Criminal Detection and Investigation 6
COURSE TITLE: Fire Protection and Arson Investigation
TERM: 2nd Semester 2021-2022
CREDIT: 3 Units
TIME DURATION & CLASS SCHEDULE: 54Hours/11-12:30 TTH
PRE-REQUISITE: CDI 111
DATE UPDATED: DECEMBER 10, 2022
SUBJECT-IN-CHARGE: Jocelyn F. Licadang

KSU Vision: A knowledge and technology hub in Asia Pacific Region.

KSU Mission: Kalinga State University shall primarily provide higher and advanced education professional instruction and training in the arts, agriculture, forestry, social and natural sciences and technology, and other relevant fields of study. It shall also promote and undertake research and extension services, and provide progressive leadership in its areas of specialization.

Quality Policy:

Kalinga State University is committed to provide quality education and engage in relevant researches, effective extension services, and viable income generating projects that satisfy the needs of its stakeholders and other interested parties towards sustainable development through good governance.

Steadfast to develop the human resource of Kalinga, the Philippines and the Asia Pacific; and

United to comply with the statutory and regulatory requirement and to continuously implement a monitoring and evaluation system to improve the effectiveness of its Quality Management System.

College Goal:

The CCJE seeks to pursue the following:

- C- Competiveness and
- C- Capability to promote
- J- Justice towards
- E- Excellence in its services



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Program Objectives:

- a. Foster the values of leadership, integrity, accountability and responsibility while serving their fellowmen, community and country;
- b. Prepare the students for careers in crime prevention, law enforcement, scientific crime detection and correctional administration;
- c. Encourage research and inquiry on the nature, causes of crimes, the treatment or punishment of criminal behaviour and how criminal justice agencies respond to crime, criminals and victims.

I. COURSE DESCRIPTION: The course presents the creation of Bureau of Fire Protection, its mandate, powers and functions. It also covers the understanding of the behavior, characteristics and chemistry of fire. It involved fire safety and protection, including the conduct of arson investigation.

II. COURSE REQUIREMENTS

1. Class standing
 - a. Online submission of outputs
 - b. Modules (hard copy)
2. Periodic examination

III. GRADING SYSTEM:

Midterm Grade: Class standing (60%) + midterm examination (40%)
Tentative Final Grade: Class standing (40%) + final examination (60%)
Finals: 1/3 Midterm + 2/3 Tentative Final Grade
Class Standing (CS)

Attendance	5%
Assignment/Quiz	40%
Recitation	15%
Project	40%

IV. TEACHING APPROACHES/STRATEGIES

This course will use blended learning. It will use modular and online learning scheme. Messenger, gmail, group chat and Google classroom will be used for the course. It is important for this class that students should have internet access for online classes. The modules for this course will be available in soft copies.



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V. COURSE OUTCOMES WITH SUMMATIVE ASSESSMENT TASKS

Course Outcomes	Summative Evaluation	Tasks
Cite the basic concept of fire technology and enumerate important personalities.	Midterm Examination	Quiz
Explain the importance of oxygen in the production of fire.		Video presentation in producing fire.
Ddifferentiate the classes of oxidizers.		Quiz
Enumerate the causes of fire and discuss the behavior of fire.		Essay quiz film analysis
Explain the stages of fire.		
Enumerate the methods of fire extinguishment and cite examples of the different extinguishing agents.	Final Examination	Quiz
Draw the parts of a portable fire extinguisher and indicate its uses.		Draw the portable fire extinguisher
Identify the different personal protective equipment used in fire-fighting.		Quiz Draw the different personal protective equipment.
Explain the methods of establishing arson.		Quiz
Apply the correct gathering and preservation of arson investigation.		Research activity



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VI. COURSE OUTLINE with TIME FRAME

WEEK	TOPIC
1- 3	Introduction
4-5	Oxidizing agents
6 - 8	Causes and behavior of fire
9 - 12	Fire extinguishment
13 - 15	Protective equipment
16-18	Arson investigation

VII. COURSE CONTENT

Intended Learning Outcomes	Topics	Teaching Learning Activities	Assessment Tasks	Resources	Remarks
Cite the basic concept of fire technology and enumerate important personalities.	<i>Introduction</i> a. Fire b. Flame c. Fuel d. Heat	<ul style="list-style-type: none"> ➤ Self – guided learning ➤ Computer – mediated communication (Random calls/ messages via Messenger or Group Chat) 	Quiz Assignment	Bustria. (2013). <i>Fire Technology and Arson Investigation</i> , 2 nd Edition.	
Explain the importance of oxygen in the production of fire. Differentiate the classes of oxidizers.	<i>Oxidizing agents</i> a. Oxygen b. Other Oxidizing Agents c. Classes of Oxidizers	<ul style="list-style-type: none"> ➤ Self – guided learning ➤ Pre – recorded lecture with text – based lecture notes ➤ Computer – mediated communication (Random calls/ messages via Messenger or Group Chat) 	Quiz Research Assignment Video presentation in producing fire.	Bustria. (2013). <i>Fire Technology and Arson Investigation</i> , 2 nd Edition.	
Enumerate the causes of fire and discuss the behavior of fire.	<i>Causes and behavior of fire</i> a. Causes of Fire	<ul style="list-style-type: none"> ➤ Research ➤ Self – guided learning 	Quiz Assignment	Bustria. (2013). <i>Fire Technology and Arson Investigation</i> , 2 nd Edition.	



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Explain the stages of fire.	b. Dangerous / Fatal Behaviour of Fire c. Stages of Fire	➤ Collaborative virtual group activity			
Enumerate the methods of fire extinguishment and cite examples of the different extinguishing agents. Draw the parts of a portable fire extinguisher and indicate its uses.	<i>Fire extinguishment</i> a. Theory of fire extinguishment b. Methods of fire extinguishment c. Parts of Portable Fire Extinguisher d. Types of fire extinguisher e. Extinguishing agents	➤ Research ➤ Self – guided learning ➤ Collaborative virtual group activity	Research on policing system of selected police models in Western Countries worth adopting. Quiz Assignment	Bustria, Leo (2013). <i>Fire Behavior and Arson Investigation. Second Edition</i> , Wiseman’s Book Trading, San Beda Village, Quezon City Soriano, Oscar G. (2011). <i>Fire Technology and Arson Investigation with related Laws on Fire Code</i> , Great Books Publishing, Quezon City	
Identify the different personal protective equipment used in fire-fighting.	<i>Protective equipment</i> a. Kinds of protective equipment b. Ladders/Ladder Carries	➤ Research ➤ Self – guided learning	Assignment Draw the different personal protective equipment.	Bustria, Leo (2013). <i>Fire Behavior and Arson Investigation. Second Edition</i> , Wiseman’s Book Trading, San Beda Village, Quezon City	
Explain the methods of establishing arson; Apply the correct gathering and preservation of arson investigation Discuss the salient features of Republic Act 9514	<i>Arson investigation and relevant laws on fire safety</i> a. Methods of establishing arson b. Gathering, preserving and analyzing arson evidences	➤ Self – guided learning ➤ Pre – recorded lecture with text – based lecture notes Computer – mediated communication (Random calls/ messages via Messenger or Group Chat)	Research on different justice system in the world. Quiz Assignment Download movie that portrays the proper procedure in arson investigation. (group work)	Montojo, Felipe G. (2006). <i>Fire Technology and Investigation</i> , National Bookstore, Mandaluyong City. Soriano, Oscar G. (2011). <i>Fire Technology and Arson Investigation with related Laws on Fire Code</i> , Great Books Publishing, Quezon City. Republic Act No. 9514: An Act Establishing a Comprehensive Fire Code of the Philippines, Repealing P.D. No. 1185 and for Other Purposes.	



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VIII. REFERENCE:

- Bermas, Danilo S. (2004). *Handbook on Criminal Investigation in the Philippines*, Central Book Supply, Inc., Sta. Cruz, Manila.
- Bustria, Leo (2013). *Fire Behavior and Arson Investigation. Second Edition*, Wiseman's Book Trading, San Bada Village, Quezon City.
- Lindsey, Jeffrey. (2006). *Fire Service Instructor*, Pearson Education, Inc., New Jersey, USA.
- Montejo, Felipe G. (2006). *Fire Technology and Investigation*, National Bookstore, Mandaluyong City.
- Soriano, Oscar G. (2011). *Fire Technology and Arson Investigation with related Laws on Fire Code*, Great Books Publishing, Quezon City.
- Swanson et. al. (2000). *Criminal Investigation*, Seventh Edition, McGraw Hill Companies, Boston, Massachusetts, USA.
- Presidential Decree No. 1185: *Fire Code of the Philippines, with implementing Rules and Regulation*, A.V.B. Printing Press, Sampalok, Manila.
- Republic Act No. 9514: An Act Establishing a Comprehensive Fire Code of the Philippines, Repealing P.D. No. 1185 and for Other Purposes.

IX. ACCOMMODATION FOR DIFFERENTIATED INSTRUCTION:

- a. Students needing special attention
- ✚ Tutoring during consultation hours

X. COURSE POLICIES:

ON REPARATION/SUBMISSION OF REQUIREMENTS

- A. Preparation/Submission of Written Reports. Students are expected to:
 1. Prepare their written reports using the prescribed format.
 2. Submit their written reports promptly. Outputs that did not follow the prescribed format shall be returned.
 3. Follow the given format in preparing their academic papers. Due dates of submission of requirements are announced. Late requirements shall not be accepted so students are required to submit their papers on time.
 4. Students are responsible for proper conduct and integrity in all of their scholastic work.



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XI. CONSULTATION HOURS:

✚ One hour consultation per week during faculty free time.

Prepared by: **JOCELYN F. LICADANG, MSCJSC**
Subject-in-Charge

Noted by: **MARY GRACE M. IGNACIO, PhDCJSC**
Program Chairman

Approved by: **JULIENNE S. LEYALEY, MSCRIM.**
Dean, CCJE

Received by: _____

Date received: _____