



Parvatibai Chowgule College of Arts and Science
Autonomous

Accredited by NAAC with Grade 'A' (CGPA Score 3.41 on a 4 Point Scale in 3rd cycle)
Best affiliated College-Goa University Silver Jubilee Year Award

BEST PRACTICE AREA: TEACHING LEARNING EVALUATION
DEPARTMENT OF ZOOLOGY

BEST PRACTICE: LEARNING THROUGH ENACTING

1. Title of the Practice: LEARNING THROUGH ENACTING (PRACTICAL COURSE)

2. Objectives

To help students apply theoretical concepts of forensic investigation learnt in the classroom to field activity. It also promotes team work spirit and critical thinking skills in solving problems. This practice also promotes research-based learning.

3. The Context

This best practice is adopted by the faculties of department of zoology. The Practical activity requires to be designed in a manner that will promote research and application of the learned concept, enables students to analyze the different aspects of the activity and use theoretical concepts to solve the problems in a group. The practical needs to be in line with the concepts taught in theory so that the students are able to work through it on their own.

The type of experiment taken for this activity should be field based (outdoor) and should be simple enough for students to comprehend and solve the given problem. This helps to evaluate traits such as the depth of the knowledge, skills, application of principles to problem solving, creativity, ability to communicate and ability to face unknown situations etc.,

4. The Practice

Students were well aware of the activity weeks before the practical. They were required to do the basic research to understand the concepts involved before the experiment in relation to the activity as given in their preliminary work on the journal. This helps the students to revise the basic knowledge pertaining to the subject. On the day of the practical students assemble with all the necessary material required which is mentioned in advance on their journal. The students were then divided in groups for analyzing the experiment and recording observations during a span of 2 hours. The assessment was carried out based on the report that is submitted which gives a detailed explanation of all the steps taken to record the observations and the techniques involved in successful completion of the activity. The activity has to be based off of the components taught in theory and make it easier for the students to apply the theoretical knowledge in the hypothetical situation staged during the practical.

Example: Enactment of a Crime Scene.

A crime scene enactment was planned at a specific location on the campus. The scene involved identifying a student to act as victim shot dead. The evidences were assembled in specific places and a natural crime scene like scenario is created.

Preliminary requirements are explained in the journal. How the students need to proceed with the forensic investigation is laid down in the online journal. Students are then divided into groups of 05. Each group had to investigate the crime scene based on the theory taught to them in class. This activity expects students to apply all the theoretical knowledge learnt by them, to investigate the crime scene. The students have to do the crime scene evaluation, Photography, perspective drawings, collection of forensic evidences as per forensic protocols, decide the type of medical analysis that needs to be done to obtain forensic data required to investigate a crime.

The students perform the activity and submit a Portfolio report on the same.

Journal Instructions Given:

Department of Zoology 2019-2020
Paradipatna College of Arts and Science (Autonomous)

Date: _____

**LAB EXERCISE 7:
SKETCHING AND PHOTOGRAPHY OF VARIOUS TYPES OF
CRIME SCENES**

PRELAB:
Study:
- CLAAP resources on sketching and photography.
- Be familiar with photography techniques in forensic investigation.
Carry camera, lens, measuring tapes, and other requirements as indicated in materials required.
Carry the E-resource of the same to the lab on the scheduled day.

AIM: To investigate the crime scene and document the evidences obtained, and then report the procedure that will be adopted to process the data and samples obtained from the crime scene.

MATERIALS REQUIRED: Camera, measuring tape, scale, pencil, eraser, paper.

ACTIVITY
You are an investigator responding to the crime scene of a person who was shot at a porch of a house. Where you observe the following:
A male, lying on the ground appears to be the victim of a shooting. There is a bullet injury on his forehead. There is sign of struggle and many objects around the victim.
Address: H.no. 408, Gogol Marg, Goo.

PROCEDURE:

- Investigate and document the crime scene from the description given above using appropriate measures.
- Secure and isolate the crime scene, document the scene using notes, sketches and photographs.
- Use grid and zone patterns of conducting search for the evidences.

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SKETCHING:

- Draw a sketch of the crime scene showing the overview of the scene
- Use triangulation, baseline and rectangular method to show the location of the evidences and victim with accurate measurements.
- Label the sketch with information about the scene.

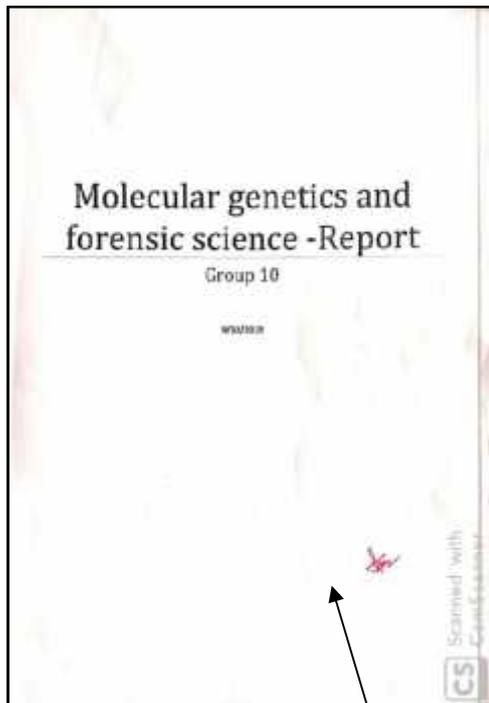
(Scale: Take the longest measurement at the scene and divide it by the longest measurement of the paper used for sketching.)

OBSERVATION:
The outcome of the investigation is required to be submitted as a report with all evidences, photographs and sequence of investigations performed to analyze the case.

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Instructions given for channelizing the forensic investigation

Report Submitted by student:



NAME	ID NUMBER	SIGNATURE
KIMBERLEY QUADROS	SU170516	
ARIDRAJINGHERATI	SU170508	
ELRICA TOURENO	SU170517	
VIANNY CARVALHO	SU170555	
SIMONA FERNANDES	SU170527	

Scanned with CamScanner

Report submitted by group of students



Overview Picture 1



Overview Picture 2



Overview Picture 3



Overview Picture 4



Evidence Number 1



Evidence Number 2

Forensic evidences collected by students from the crime scene

Crime scene report

Date: 16 September 2019

Time: 13:45pm

Address: Block 408, Geylang Mews, GRC

Case no: 687402169

Case type: Homicide

Weather: Sunny

The crime scene is in the front porch of the victim's house. The weather conditions on arrival was 25-26°C with slight precipitation.

A dead body of an adult male was found in the porch of house. The victim appeared to be in his 40s and no source of identity was registered from the crime scene. Since the crime scene was in the porch of the house, it can be considered an outdoor crime scene. The victim was found dead and blood was flowing from the head region. The body was lying towards the ground.

The initial responder is Mr. Clark Kang, the neighbor of the victim, Mr. Liak, heard some arguments arising from the house and then heard 2 gunshots and noticed blood on the victim's house, only to see the victim fallen on his face and blood flowing out into a pool. He immediately called the authorities at 11-999 and reported the crime. No other persons were seen by him at the crime scene however, a few other neighbors had also reported seeing the house by the time the authorities had got there. All other witness statements were given by another officer, Mr. Scott Long, which revealed that the victim lived alone in his house and didn't have many visitors. In addition to the first responder, all other witnesses described the same chain of events beginning from the arguments and then the 2 gunshots.

The first detective arrived at the crime scene at 13:52pm and immediately ordered for the crime scene to be sealed off and clearances very possible crimes and exits that may have existed to and from the victim's house and also ordered for those to be sealed off and guarded. The crime scene of the crime scene was measured from end to end and measured about 3m x 2m x 1m.

Report written and submitted



Evidence Number 3



Evidence Number 4



Evidence Number 4



Evidence Number 4



Evidence Number 5



Evidence Number 5

Summary of the crime scene

The crime scene occurred on the 16th of September, 2019, at Block 408, Geylang Mews, GRC, a dead body of an adult male in the age of 40 years was found in the porch of a house. The crime scene was considered as an outdoor crime scene as it occurred outdoors. The scene was a porch where the victim was shot, hit on the head and blood was flowing from his head region. The initial responder claimed that he heard arguments from the house and also heard two gunshots and rushed to the victim's house, only to see the victim lying on the floor with blood rushing out from his head. He immediately reported the crime to the authorities, alerted by a line that were no other visitors at the crime scene. All other witness statements were noted from by an officer, Mr. Scott Long, revealed that the victim lived alone and didn't have many visitors.

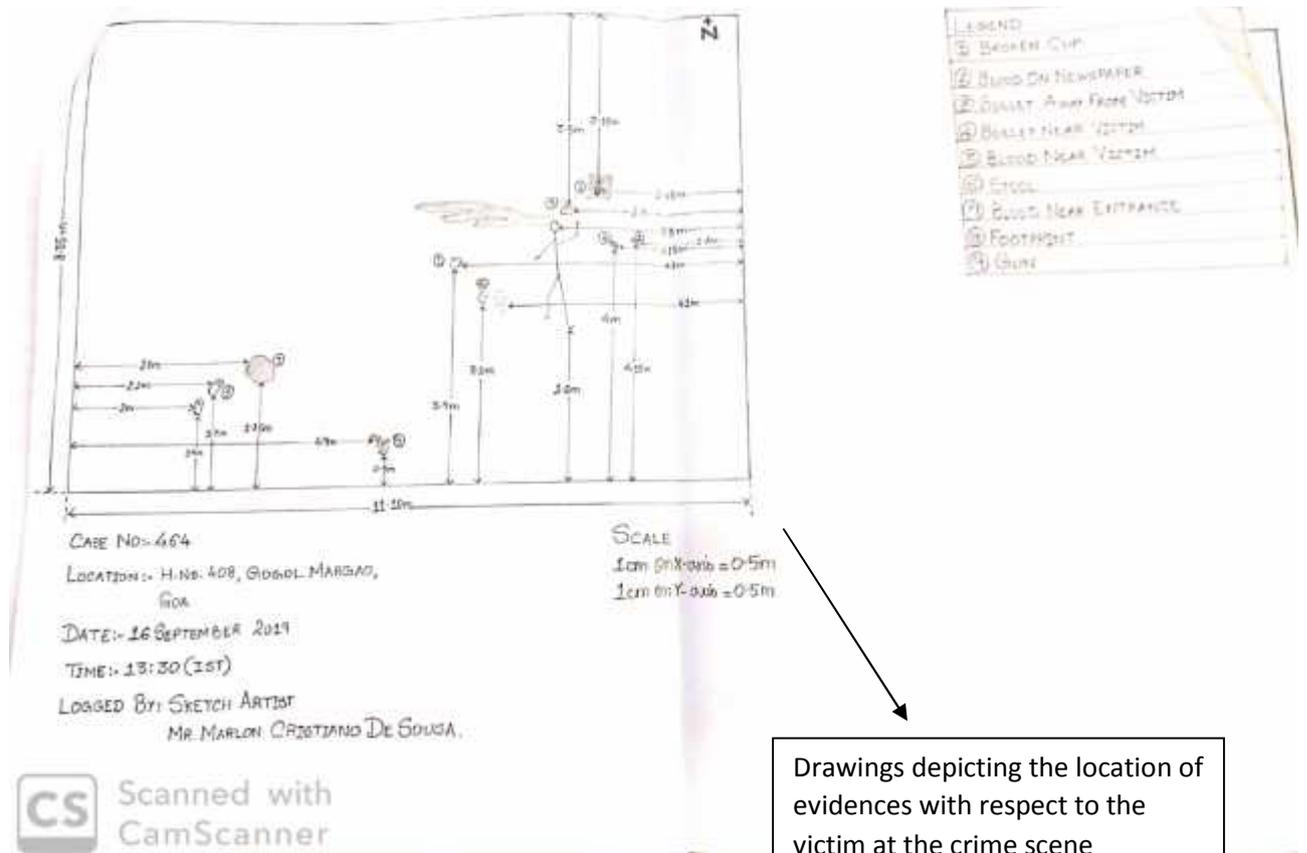
The first detective arrived at 13:52pm and ordered for the crime scene to be sealed off and guarded. The forensic team which consisted of a sketch artist, photographer etc. were employed at the crime scene. They found out evidence like guns, bullet marks, newspapers, steel etc and transferred them to the laboratory with made packages for further investigation.

The sketch artist Mr. Bruce Brown drew a sketch using facial analysis as well as one view sketch. The photographer had clicked two view pictures as well as close-up pictures of the evidence. The investigation was carried out with proper methods with positive marks in power by examination. The evidence were marked with tags, a search for more evidences had to be conducted as the time.

Witness Card of

SUPPLIER

T.Y. D & Zooling



5. Evidence of Success

- Students were able to work in their groups to solve the activity given to them.
- They were able to write a good report based on the different components related to the activity.
- The same was assessed as a continuous assessment for practical's

6. Problems Encountered and Resources Required

Implementation of the practice required extensive work on the designing of activity.

To ensure that students are well versed with the concerned topic they have to be taught in details in theory class before portraying it as an activity.
