



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Expert Talk on
Forensic Ballistics: Past, Present and Future



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Expert Talk: Forensic Ballistics: Past, Present and Future

360⁰ FORENSIC ASSOCIATION

27th February 2021

10:30AM-11:30AM

(Room no 318, Department of Forensic Science, Faculty of Science)

E Brochure-

DEPARTMENT OF FORENSIC SCIENCE
FACULTY OF SCIENCE
360⁰ Forensic Association

Is organizing
Online Expert Talk

FORENSIC BALLISTICS
PAST, PRESENT & FUTURE

DEAN
Dr. Lakhvinder Singh
Dean, Faculty of Science
SGT University

HoD
Ms. Mandeep Kaur
Assistant Professor
Dept of Forensic Sciences

CO-ADVISOR
Dr. Muskan Jaski
Assistant Professor
Dept of Forensic Sciences

ADVISOR
Dr. Bhupesh K Sharma
Associate Professor
Dept of Forensic Sciences

SPEAKER
LIEUTENANT MOHAMMAD AL SHAMSI
Head Tool Marks & Firearms
General Dept. of Forensic Science &
Criminology Dubai Police General H.Q.

[Link](#)

Date- 27/2/2020, Time- 10:30 am- 11:30 am



SGT UNIVERSITY
SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved)
Gurugram, Delhi-NCR
Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Brief Profile of Speaker: *Lieutenant Mohammad Al Shamsi, Head of Firearms and Tool Marks, General Department of Forensic Science and Criminology, Dubai Police, Govt. of UAE*

Organizers:

Dr. Bhoopesh Kumar Sharma (Advisor, 360⁰ Forensic Association & Associate Professor, Dept. of Forensic Science, Faculty of Science)

Dr. Bhawana Joshi (Co- Advisor, 360⁰ Forensic Association & Assistant Professor, Dept. of Forensic Science, Faculty of Science)

Report of the Webinar/ Event / FDP Program:

a) Introduction:

Ballistics is the study of action, motion, and behavior of projectile in any given medium. Forensic ballistics deals with the examination, identification and comparison of firearms and related evidences encountered at the scene of crime. Keeping in mind the involvement of new types of modern firearms in crimes, improvised firearms and difficulties in their examination, the present talk was organized. Expert Mohammad Al Shamsi has great experience in crime scene investigation in the shooting incident cases. He has also authored numerous articles on the cutting-edge technology in forensic ballistics. The talk was intended especially for the students and the faculty members to give them an idea of the role of ballistic expert in crime investigation.

b) Objective of the webinar/ Event / FDP:

The activity was intended for the students of Forensic Science at SGT University to understand and apply the significance of emerging areas of Forensic Ballistics and technology in the field of forensic science and crime investigations.

c) Brief content of lecture-

The main emphasis of the talk was on:

1. To understand various types of firearms
2. To learn the historical view of firearms and the evolution of firearms.



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

3. Understand the factors influencing the examination and identification of firearms.
4. Roles and responsibilities of a ballistic expert and the training they need.

a) Screenshots of Webinar/ Picture of Event: Good quality picture with legends is mandatory



Pic: 1 Organizers welcoming the guest speaker





SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Pic:2 Speaker explaining about the history of firearms to students

Forensic Ballistics
Past, Present, and the Future

Past - Development of firearm ignition systems

Wheel Locks

- The next improvement was to eliminate the match, replacing it with a method that could generate fire on demand.
- Adapting household fire-starting implements, such as flint and steel, was the obvious choice. A flint creates a spark under conditions that would extinguish a match.

1st Lt. Eng. Mohammad A. AlShamsi

maalsamsi@dubaipolice

Pic:3 Speaker explaining about wheel lock mechanism

Forensic Ballistics
Past, Present, and the Future

Present - Modern Firearm Types and Mechanisms

Types: Handguns, Rifles (Bolt Action, Lever Action, Slide Action, Automatic),

1st Lt. Eng. Mohammad A. AlShamsi

maalsamsi@dubaipolice



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Pic:4 Speaker explaining about different types of firearms

Forensic Ballistics
Past, Present, and the Future

Present – Examination Procedures

After receiving and going through the *appropriate* documentation and handling procedures relevant to your lab:
class characteristics are examined, and individual characteristics are evaluated.

Labels in diagram: SLIDE DRAG MARK, SLIDE SCUFF MARK, FIRING PIN SHAPE MARK, FIRING PIN IMPRESSION, EJECTOR MARK, EJECTION PORT MARKS, CHAMBER MARKS, MAGAZINE LIP MARKS, EXTRACTOR MARKS, BREECHFACE MARKS.

1st Lt. Eng. Mohammad A. AlShamsi | maalshamsi@dubaipolice.gov.ae

Pic:5 Speaker explaining about class characteristics

b) Feedback Forms

The feedback was taken through Google forms. A screen shot is shared for the reference:



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Questions Responses 60

Did you like the Expert Task?

60 responses



Are you satisfied with the content of the Task?

60 responses



Questions Responses 60

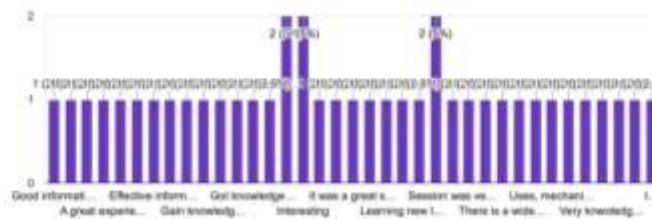
Would you like such more event to be organized in near future?

60 responses



Learning outcome from the session.

40 responses





SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

ATTENDANCE SHEET

Expert Talk on "Forensic Ballistics: Past, Present and Future"

Date: 27/02/2021

S.No	Name of Student	Remark
1.	Manisha	
2.	Marlyn	
3.	Keya	
4.	Megha Mahanwal	
5.	Meghanshi Goyal	
6.	Sween	
7.	Moksha Gupta	
8.	Nazia Hena	
9.	Netra Chandra	
10.	Nitesh	
11.	Nisha	
12.	Nisha verma	
13.	Nishtha Kwatra	
14.	Aditya	
15.	Shambhavi Pandey	
16.	Parmita Dey	
17.	Damini	
18.	Parul Sinha	
19.	parul Panchal	
20.	Shivani	
21.	Vikhyat	
22.	Poornima	
23.	Preeti	
24.	preeti Singh	
25.	harsh kakkar	
26.	priyanka Yadav	
27.	Sakshi	
28.	Rachna	
29.	Rahul Shekhawat	
30.	Raina Nandal	
31.	Rajinder dangi	
32.	Ravika Rathoar	
33.	Reema	
34.	Ritika Tehlan	
35.	Ritu kumari	
36.	Vishruti	
37.	Pooja	



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

	Rahul Thakur	
39.	Garima joshi	
40.	Sakshi Parasher	
41.	Sameekshaa Dalal	
42.	Simran agrawat	
43.	Sini Koshy	
44.	Ishant	
45.	Kshitiz Gupta	
46.	Sona Jha	
47.	Sonu	
48.	Srishti	
49.	Tanya	
50.	Trishita Debnath	
51.	Varsha Yadav	
52.	Vikas	
53.	Aak Kumar	
54.	Amrutha A P	
55.	Angel Kathpal	
56.	Anish	
57.	Anshul Singhal	
58.	Archana	
59.	Shreya Arora	
60.	Aishani brahma	
61.	Priya	
62.	Bandana patel	
63.	Swati	
64.	Bhawna Pandi	
65.	Rahul	
66.	Muskan	
67.	Darshitha	
68.	Digvijay Yadav	
69.	Deepika Dhillon	
70.	Dimple	
71.	Ekta	
72.	Vivek	
73.	Samridhi sharma	
74.	Sanjeevani	
75.	Savita Redhu	
76.	Seema	
77.	Shalini taragi	
78.	Saijal	
79.	Megha Sharma	
80.	Sheetal	
81.	Shriji Mishra	
82.	Gagan	



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

	Pooja Sheoran	
84.	Narun	
85.	Prince	
86.	Humanshu	
87.	Dushyant	
88.	Narender	
89.	Abhilasha	
90.	Akshara	
91.	Vedant	
92.	Kiran	
93.	Deepak	
94.	Shubham	
95.	Vartika	
96.	Kanika	
97.	Veena	
98.	Sentibenla	
99.	Mahak Kumar	
100.	Tiya	

Dr. Bhawana Joshi

Copy of E certificate for participants:- N.A