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CAREER ORIENTATION LECTURE ON SECURITY AUDIT AND ITS RELATION TO FORENSIC SCIENCE

Mr. Sai Krishna
Security Analyst, Intuit India Product Development Centre, Bangalore

On 19.09.2020, an informative career-orientation expert lecture was organized by the Unit of Forensic Science of the Department of Life Sciences at Kristu Jayanti College through the online platform. Both batches of UG Forensic Science students took part in the lecture conducted by the resource person, Mr. Sai Krishna. The speaker prepared an informative presentation on the topic - security audits and its relation with respect to Forensic Science. In his speech, he urged the students to realize the importance of security



suggestions. Mr. Krishna also spoke about security grading, which is introduced according to the degree of risk of intrusion and that the grading system is classified into 4 levels. The students were able to understand different aspects of security with respect to the forensic field. Different questions were asked by the students and answered by the resource person.

INTERNATIONAL EXPERT LECTURE ON CAREER ADVANCEMENT IN FORENSIC SCIENCE

Mrs. Shraddha Nyati
Instructor, Learn to Upgrade, USA

On 28.10.2020, an international expert lecture series was initiated by the Unit of Forensic Science of the Department of Life Sciences at Kristu Jayanti College through the online platform. The expert lecture was conducted by the resource person, Mrs. Shraddha Nyati. The resource person highlighted the various career opportunities in the field of Forensic Science by giving examples of individuals who are working in those domains and the methods that they have taken to achieve those career options. The speaker encouraged the students to



work hard and progress to a more specific area in Forensic Science that will help them build their careers in the field. The speaker also explained the fact that Forensic Science can be applied in almost any domain of working and the individual having the knowledge of Forensic Science should be able to use this science in a versatile manner.

INTERNATIONAL EXPERT LECTURE ON FINGERPRINTS AT THE CRIME SCENE

Mr. Mike McCutcheon Ed. D
Instructor, Forensic Education LLC,
USA

On 09.12.2020, the Unit of Forensic Science, Kristu Jayanti College, Bangalore organized the second international guest lecture on 'Fingerprints at the crime scene'. The resource person for this lecture was Dr. Mike McCutcheon. He started by introducing the field of fingerprints. He then explained about the various methods of development. He further demonstrated the development of fingerprints on surfaces like



glass, porcelain, textured surface, car door handles etc. He used different techniques of development and lifting while explaining the benefit of one technique over the other. He also explained the recent developments made in the field of fingerprint development and analysis.

INTERNATIONAL WEBINAR ON FUTURE OF CRIME SCENE INVESTIGATION

Shri. Maithili Sharan Gupta, IPS
National President Crime Free Bharat Mission
Former DGP, Madhya Pradesh

On 26.03.2021, the Unit of Forensic Science, Department of Life Sciences, Kristu Jayanti College organized an international webinar titled 'Future of Crime Scene Investigation'. The webinar was attended by the students of 1st and 2nd year UG Forensic Science and registered external participants. The webinar aimed to look into newer and more modern avenues in crime scene investigation in order to expose the students to newer updated knowledge. The webinar was conducted online due to the pandemic situation using the ZOOM platform. The webinar had an inaugural session followed by 4 scientific sessions which were handled by international speakers of

good reputation and extensive experience in the field of Forensic Science. The inaugural ceremony of the international webinar was presided over by Rev. Fr. Dr. Augustine George, Principal, Kristu Jayanti College, Bangalore who highlighted the need for the field of Forensic Science in today's society and reiterated the need for practical knowledge being imparted to today's students and how it is necessary to help them achieve great things in their career. The chief guest of the inaugural ceremony Shri. Maithili Sharan Gupta explained the scope, working and future ambitions of the Crime Free Bharat mission under the Govt. of India. The webinar had four sessions on diverse topics related to crime scene investigation:

ACCIDENT INVESTIGATION AND ITS DYNAMICS

Dr. Sally Lukose
Professor and Dean of School of Allied
Health Sciences, Sharda University



The resource person for this session was Dr. Sally Lukose, Professor and Dean of School of Allied Health Sciences in Sharda University, Greater Noida and is also the Head of

BULLET TRAJECTORY AND BLOOD SPATTER ANALYSIS IN 3D

Mr. Brad Joice
Detective Sergeant, York Regional Police
Ontario, Canada

The resource person for this session Mr. Brad Joice is a Detective Sergeant, York regional Police, Ontario, Canada. He used the session to help the delegates gain some knowledge on bullet trajectory and blood spatter analysis in different cases handled by him in the past. The session focused on roles played by a Crime Scene Investigator, the changes brought about in the field of Forensic Science with this advancing technology and emphasized on the accuracy of 3D technology in ballistics and blood pattern analysis.

Techniques used in the earlier times can be perceived as orthodox and less accurate methods of documentation when compared to 3D mapping. Reminiscing the scenes from the famous series-Dexter, blood pattern analysis was put to light by Mr. Brad, focusing on how the string line method and older software programs like Backtrack from 1987 to

Academics-cum-Forensic Science Department at the College of Traffic Management, Institute of Road Traffic Education (IRTE), Faridabad. Dr. Sally started the session by breaking down the meaning behind the word “accident” and then proceeded to discuss the statistics of road accidents as given by the World Health Organization and also gave certain solutions on how to prevent such accidents from occurring. The delegates were given an explanation regarding the ABC of Accident Investigation which was further broken down into 5 levels - reporting, at-the scene investigation, technical follow-up, accident reconstruction and cause analysis. Towards the end of the session, Dr. Sally spoke about a very useful technology called PC Crash which helps in 3D reconstruction of an accident scene which will help investigators to have a better understanding about the happenings of an accident.



Hemostat from 2006, can be a very time consuming and lesser efficient approach in comparison with the currently available devices and methods. The importance of shooting reconstruction to determine the bullets’ area of origin was put to light. Usage of different tools like trajectory rods, string lines and lasers to visualise angles and motions in the trajectory were introduced. To young Forensic Science students, the session taken up by Mr. Brad was not just engaging but also an interesting learning platform that opened their eyes to how important it is to adapt and adopt to the changing times keeping in mind the basic principles that are part of regular curriculum.

3D CRIME SCENE SCANNING- EVOLUTION, DOCUMENTING AND ANALYZING A FIRE SCENE

Dr. Satendra Yadav
Public Safety Expert & Crime Scene
Trainer, Leica Geosystems, Switzerland

The resource person for this session, Dr. Satendra Yadav. He talked about 3D Crime Scene Scanning and its evolution. He explained how 3D scanning technology began and why documentation is necessary especially when it comes to trials. He then proceeded to show various new technologies that could be used to document and take necessary measurements of the crime scene. He cited instances from real life cases that he had worked on where he had used photogrammetry as a means of documenting a crime scene. One of them was about a road accident case, for which with the help of the



geo-coordinates they were able to conclude that it was not the vehicle's fault but rather the angle of the road that was faulty.

CRIME SCENE RECONSTRUCTION- FROM THE FOUNDATION TO THE FUTURE

Mr. Zachery Kowalske
Detective & Crime Scene Reconstructionist
Roswell Police Department, Georgia, US

The resource person for this session Mr. Zachery Kowalske is a Detective & Crime Scene Reconstructionist at Roswell Police Department, Georgia, United States. Mr. Zachery touched upon the different crime scene reconstruction techniques that were covered in the previous sessions and explained how they occupy the recent trend in crime scene documentation. After this, the resource person took the delegates and students through the different crime scene reconstruction techniques as postulated by different renowned reconstructionists in the past. He showed glimpses of

different text books and research papers which have devised new crime scene reconstruction techniques in the past. Students were able to understand the different theories which have led to today's accepted reconstruction techniques. The resource person finally explained the advantages and tamper-proof nature of 3D crime scene documentation technology. He used two case examples from his field experience to explain the crime scene documentation techniques that are put in practice and how blood spatter analysis and bullet trajectory analysis help in crime scene reconstruction to a great deal. He took the delegates and students through the process of crime scene documentation used in two high profile cases that he had investigated. Students could understand the great detail to which a crime scene has to be analysed in order to make it reconstructable in the lab.



ATRIUM 2021

INTRA-COLLEGIATE FEST

The unit of Forensic Science, Kristu Jayanti College, Bangalore organized an intra-collegiate fest for the students of UG Forensic Science during 3rd - 5th March 2021. This forensic fest aimed at discovering students' knowledge and understanding of the subject as it offered a wide range of science related events. The events were conducted by the teachers of the unit of Forensic Science. The fest was executed with a total of 10 events and was organized at its best of quality. The fest was conducted online due to the pandemic situation using the ZOOM platform. The high-spirited forensic fest started with preliminary rounds of various events on 3rd March 2021.

Atrium, being the first forensic fest in the college the theme was maintained at crime and investigation. With respect to this, the events were also organized accordingly. There were a total of ten events planned for the students to participate in. Cognitionis - the quiz event had a preliminary round and time limit was given for each question to be answered. This kept the students on their feet even though the competition was virtual. Events like Scleus Fabula tested their writing and intuitive skills as the event dealt with writing a crime story but based scientifically. Bringing out the forensic scientist or the detective within them, events like Inquisitor, Obscura, Fortitudo aimed at testing their investigation, intuitive, observation skills respectively. Events like Parle (debate), Pictura (Logo Designing), and Prescripta (sketching) were organized and these events tested their artistic skills. Realis (the documentary contest) was themed as "Water - the essence of life". The last event was Qualis which was based on the best participation and performance of the students.

The inaugural ceremony of the fest was presided over by Fr. Lijo. P. Thomas, Financial Administrator, H.o.D, Dept. of Computer Science, Kristu Jayanti College and the guest of honour was Mrs. Anu Sebastian, Scientific Officer, Forensic Psychology Division, Karnataka State Forensic Science Laboratory. In his presidential address, father enlightened the par-

participants about the importance of Forensic Science and its scope in everyday life.

Mrs. Anu Sebastian spoke on forensic psychology particularly and explained the scope of forensic psychology. She enlightened the students on the field of forensic psychology and briefed on the tools and techniques used in this particular domain. During the valedictory ceremony, Dr Calistus Jude felicitated the winners of various events and appreciated the teachers for having conducted the forensic fest successfully.

Atrium 2021 attracted a lot of enthusiastic participation. From 130 students certain events like Scelus Fabula, Pictura, etc. had fifty participants each. Every student got a chance to participate in at least one event. Since the fest was conducted online and the students had not come to the college for almost a year due to the pandemic situation this fest helped the students get in touch with their friends of the same class and also both juniors and seniors got to know each other. During the fest various students got to know their talents and skills and they were able to generate new ideas and thoughts which helped them and their teams perform well in the fest. The fest was a great platform to develop leadership and coordination skills among students.



A note of appreciation:

The fiction writing which won the Scelus Fabula competition is featured in this newsletter.

The winning logos of the Pictura event were used to form the logo of this newsletter

ATRIUM 2021- WINNERS

Scelus Fabula- Crime Fiction Writing

First Position- Ms. Ann Mariya Thomas
(Team Henry)

Second Position- Mr. Nikhil Joe Varghese
(Team Keeler)

Third Position- Ms. Anisha Mohammed
(Team Locard)

Cognitionis- Forensic Quiz

First Position- Team Orfila (Ms. Aishwarya
P V, Ms. Gayathri L Nair, Mr. Jithin Yohan-
nan)

Second Position- Team Osborn (Ms. Cath-
erine Maria Johny, Ms. Riya Raj C A, Ms.
Sreelakshmi N M)

Third Position- Team Bertillon (Ms.
Aakanksha Sunil, Ms. Amala K J, Ms.
Prathiksha R S)

Fortitudo- Virtual Treasure Hunt

First Position- Ms. Carol Rebecca M

Second Position- Ms. Gayathri L Nair

Third Position- Ms. Prathiksha R S

Obscura- 'Video Observation'

Contest

First Position- Ms. Riya Raj C A

Second Position- Mr. Joshua Stephen D

Third Position- Ms. Aparna S Dileep

Inquisitor- 'Pick the Suspect'

Contest

First Position- Ms. Nivya George

Second Position- Ms. Lorraine Tissan

Third Position- Ms. Catherine Maria Johny

Parle- Debate Competition

First Position- Team Locard (Ms. Lorraine
Tissan, Ms. Amulya, Mr. Kondepalli Haren
Reddy)

Second Position- Team Marsh (Ms. Fiya
Maria, Mr. James Savio, Ms. Neha Sunith)

Third Position- Team Galton (Ms. Amritha
Shelly, Ms. Diya Sajan, Ms. Nivya George)

Pictura- Logo Designing

Competition

First Position- Ms. Aishwarya P V

Second Position- Mr. Joshua Stephen D

Third Position- Ms. Catherine Maria Johny

Realis- Documentary Competition

First Position- Team Bertillon (Ms. Priyan-
ka V, Ms. Pragya Ekka, Mr. Abhishek A G)

Second Position- Team Keeler (Ms. Umme
Salma Razak, Ms. Kavya Priya L, Ms. J B
Arsha)

Third Position- Team Locard (Mr. Konde-
palli Haren Reddy, Mr. Joshua Stephen D,
Ms. Anisha Mohammed)

Prescripta- Sketching Competition

First Position- Mr. Neeraj P B (Team Lattes)

Second Position- Ms. Sreelakshmi S (Team
Lattes)

Third Position- Ms. Disha S N (Team Lo-
card)

Qualis- Overall Performers

Mr. Joshua Stephen D

Ms. Catherine Maria Johny