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Department : Forensic Science

Academic Year: 2023-24

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Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Art 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

GENDER DIFERENCE IN HANDWRITING CHARACTERISTICS OF TYPE 2 DIABETIC PATIENTS

Dissertation Submitted in partial fulfilment of the requirement for the award of the degree of

Master of Science in forensic science

To

GURU GHASIDAS VISHWAVIDYALAYA

(A Central university established by the act of parliament, 2009)



Submitted By-

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M.Sc. IV Semester

Enrollment.no. GGV/21/10403, ROLL NO-21046107

To

Under the guidance of

MISS. BLESSI N UIKEY

(Assistant Professor)

DEPARTMENT OF FORENSIC SCIENCE

Guru Ghasidas Vishwavidyalaya, Koni Bilaspur (C.G)

SESSION 2021-23

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काशिसक साइस विभाग epartment of Forensic Science गुरु घासीदास विहः विद्यालय, uru Ghasidas Vishwavidyalaya. बिलासपुर (छ.ग.)

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Department of Forensic Science

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FORWARDING CERTIFICATE

This is to certify that the project report entitled "GENDER DIFFERENCE IN HANDWRITING CHARACTERISTICS OF TYPE 2 DIABETIC MELLITUS PATIENTS" is an authentic record of work done from March to August 2023 by Miss Anjitha C. G a student of M.Sc. Forensic science in the department of forensic science of this university under the guidance of Miss Blessi N Uikey. I wish her all the success.

Place: Bilaspur
Date: \$18122

Adom

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ABSTRACT

The aim of this study is to determine the gender difference in handwriting characteristics of type 2 diabetes mellitus patients. Diabetic peripheral neuropathy (DPN) is a neurodegenerative disease affecting the hand median nerve in diabetic patients. This causes variations in handwriting both in males and females. To study whether the effect of this diabetic neuropathy is more in male or female, handwriting samples of 100 males and 100 females with type2 diabetes mellitus are collected and compared. After comparing 13 handwriting features, it is found that males are having more variations in handwriting characteristics like line quality, tremor, connecting strokes, starting& ending strokes, diacritics placement, alignment, slant, loop & bulb formations of letters etc. These 200 samples were also compared with control samples of 100 non-diabetic male and 100 non-diabetic female handwriting samples. After comparing with controls, it is found that diabetic patients are showing more variations in handwriting characteristics than normal people. As the duration of diabetes increases, impairment in handwriting also increases. They show more hesitations, tremor, and ink depositions in upward movements while writing. So, males handwriting is more affected by the condition of diabetic neuropathy in type 2 diabetic patients.

Key words: Diabetic peripheral neuropathy (DPN), gender difference, handwriting characteristics, type 2 diabetes mellitus

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Comparative Study of Intelligent Quotient and Dermatoglyphics Angles (ATD) on specific group

M.Sc. Dissertation submitted at Guru Ghasidas Vishwavidyalaya, Bilaspur in partial fulfilment of the requirement for the degree of

Master of Science

In

Forensic Science

By

Giriraj Singh Shaktawat (Enrollment No.: GGV/21/10409; Roll No.: 21046114)

Under the Guidance of

Ms. Priya Bhaisare

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(A Central University)
Bilaspur (C.G.)

2023

गुरू घासीदास विश्वविद्यालय (क्त्रीयविस्तिवालय अधिनम 2008 इ. 25 वे अंतर्गत स्थापत केन्द्रीय विस्तिवालय) कोनी, बिलासपुर – 495009 (छ.ग.)



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This is to certify that the thesis entitled "Comparative study of Intelligent Quotient and Dermatoglyphics Angle (ATD) on specific group", has been submitted by Giriraj Singh Shaktawat (M.Sc IVth Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) under the guidance of Ms. Priya Bhaisare (Supervisor), towards partial fulfillment of the requirements for the award of Master's Degree in Forensic Science.

विभागाध्यक्ष HEAD फोर्सिक साईस विभाग Department of Forensic Science गुरू घासीदास विश् विद्यालय,

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Assistant Professor and Head, Department of Forensic Science, Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.).

Place: Bilaspur

Date: 03 | 08/2023



गुरू घासीदास विश्वविद्यालय (केत्रीय विश्वविद्याल अधिकम 2008 ह. 25 के अर्थन स्थापित केत्रीय विश्वविद्याल) कोनी, बिलासपुर – 495009 (छ.ग.)



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Guru Ghasidas Vishwavidyalaya (ACentral University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Standardization of DNA extraction method of milk samples and development of PCR- based method of adulteration detection in milk

A Dissertation Submitted in Partial Fulfilment For The Degree in M.Sc. Forensic Science 2021-2023

Submitted By

Miss Rupali Upadhyay

Under The Supervision of

Dr. Chanchal Kumar

ASSISTANT PROFESSOR



DEPARTMENT OF FORENSIC SCIENCE

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Department of Forensic Scienc गुरू घासीदास विश्वविद्यालय, Guru Ghasidas Vishwavidyalay विलासपुर (छ.ग.)

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This is to certify that Miss Rupali Upadhyay, M.Sc. IV Semester, Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) has completed her Dissertation entitled "Standardization of DNA extraction method of milk samples and development of PCR- based method of adulteration detection in milk". Under the guidance of Dr. Chanchal Kumar, Assistant Professor, Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).

I wish her all the success.

Place: Bilaspur

Date

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Koni, Bilaspur - 495009 (C.G.)

Abstract

Milk and dairy products are largely nutritional foods, largely consumed by the general children and pregnant women. Due to its high demand and value, frauds in the dairy assiduity applicable for the analysis of marketable dairy products because DNA deduced from physical response (PCR) analysis indeed after thermal treatment and other types of processing, the most of discovery, strong particularity, and high perceptivity. In this work DNA extraction was done cytochrome B successfully.

Keyword: mtDNA, Cytochrome B, Milk adulteration, DNA extraction, Polymerase chain reaction.

and House

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Department of Forensic Science गुरू घासीदास विश्वविद्यालय, Guru Ghasidas Vishwavidyalaya बिलासपुर (छ.ग.) BILASPUR (C.G.)



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Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

A Comparative Study on Cybercrime Awareness among Students

M.Sc. Dissertation submitted at Guru Ghashidas Vishwavidyalaya, Bilaspur in partial fulfillment of the requirement for the degree of

Master of Science

In

Forensic Science

By

Tinganiwar Akhilesh Kumar

Enrollment No. - GGV/21/10427 Roll No- 21046136

Under the Guidance of

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2021-2023

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भारतियां भा

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Date:

Dr. Sudhir Yadav Assistant Professor and Head Department of Forensic Science Guru Ghashidas Vishwavidyalaya Bilaspur (C.G.)

FORWARDING CERTIFICATE

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Detection of semen stains on different non-porous surfaces effects after washing.

M.Sc. Dissertation submitted at Guru Ghashidas Vishwavidyalaya, Bilaspur in partial fulfillment of the requirement for the degree of

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In

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गुरू घासीदास विश्वविद्यालय द्रीय विश्वविद्यालय अधिनियम २००३ क. २५ के अंतर्गत स्वामित केन्द्रीय किरवविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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No. /F.Sc. /2020

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FORWARDING CERTIFICATE

This is to certify that the thesis entitled "Detection of semen stain on different non-porous surfaces effects after washing", has been submitted by Ashish Kumar Dehuri (M.Sc. - IVth Semester) Department of Forensic Science, Guru Ghashidas Vishwavidyalaya, Bilaspur (C.G.) under the guidance of Mrs. Shweta Rai (Supervisor), towards partial fulfillment of the requirements for the award of Master's Degree in Forensic Science.

for 3/8/2013 Dr. Sudhir Yadav

Assistant Professor and Head, Department of Forensic Science Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.).

Place: Bilaspur

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A RESEARCH ON

"Study of Genetic Polymorphism (GSTM1) associated with Arsenic metal toxicity in affected population of Rajnandgaon district, Chhattisgarh"

SUBMITTED FOR PARTIAL FULFILMENT OF THE DEGREE OF M.Sc. IN FORENSIC SCIENCE

BY

Suraj Kumar Muduli
M.SC. FORENSIC SCIENCE
(ENROLL.NO. -GGV/21/10426ROLL NO. -21046135)
DEPARTMENT OF FORESIC SCIENCE
GURU GHASIDAS VISHWAVIDYALAYA BILASPUR C.G.

UNDER THE SUPERVISION OF
Miss. BLESSI N. UIKEY
ASSISTANT PROFESSOR
AND
Co-SUPERVISION OF
DR. CHANCHAL KUMAR
ASSISTANT PROFESSOR

DEPARTMENT OF FORENSIC SCIENCE GURU GHASIDAS VISHWAVIDYALAYA C.G.



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This Is to Certify That Mr.SURAJ KUMAR MUDULI Student Of M.Sc.(Forensic Science)4thSemester Carried Out The Project On The Topic "Study of Genetic Polymorphism (GSTM1) associated with Arsenic metal toxicity in affected population of Rajnandgaon district, Chhattisgarh"

Under The Supervision of Miss. Blessi N. Uikey for The Partial Fulfillment of The Degree Of Master Of ScienceIn Forensic Science.

Supervisor

aphinisist.

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Head of Department

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ABSTRACT

Groundwater Arsenic contamination has become a global concerning toxicological problem which affected many countries and a past study found that Asia is the highest proportion of globally affected areas of arsenic contamination and around 65% of areas of Asia was affected. Genetic variation plays an important role in metabolism of these heavy metals and various scientific studied had been done on impact polymorphic gene in Arsenic toxicity. In this present study analysed the polymorphic gene Glutathione S-transferase (GSTMI) associated with arsenic toxicity. The blood sample was collected from Rajnandgaon district Chhattisgarh and the past study stated that this area had high concentration of Arsenic in groundwater. The study found that the frequency of GSTM1 null genotype of study population is 45% and these individuals are more susceptible to arsenic poisoning and diseases causes by arsenic poisoning.

INTRODUCTION

Heavy Metals are those elements which are located in d and p block of periodic table. Heavy Metals consists of high densities and are toxic and poisonous in nature even if present in low concentrations[1]. Heavy metals are the groups of both metals and metalloids which posses high density greater than 4 g/cm³[2,3]. Heavy metals include Arsenic (As), Mercury (Hg), Lead (Pb), Cadmium(Cd), Zinc (Zn), Iron (Fe), Copper (Cu), Silver (Ag) and others [4]. The majorities of Heavy metals are found in soil, water and rocks [5]. Heavy metals exist in the form of ores in rocks and which are been recovered as minerals [4]. Its ores includes sulphides, such as arsenic, lead, iron, cobalt, gold-silver, lead-zinc and oxides which includes gold, antimony, manganese. Some others exist in both the forms of ores i.e. sulphides and oxides for example cobalt, iron, and copper [4]. These Heavy metals can cause degradation and are toxic to environment causing environmental pollution. By two process heavy metals are emitted to environment i.e. by natural and anthropogenic causes. Mining process and Industrial operations are the major causes of heavy metal emission by anthropogenic sources [2,3,6]. Heavy metal poisoning or toxicity refers to the effects which are harmful when consumed above bio-recommendation limits [4]. In humans, these Heavy metals can cause toxicity to various organs such as neurotoxicity, hepatotoxicity, cardiovascular toxicity, nephrotoxicity and skin toxicity [5]. Toxicity or Poisoning of individual metals can exhibit a specific signs by which it can be identified. Toxicityeffects nature can be acute, chronic, subchronic, carcinogenic, mutagenic, neurotoxic and teratogenic i.e. abnormalities of physiological development [4]. These Heavy metal toxicity can be life threatening to humans therefore, cannot be neglected[4], even at low concentrations but for long term or chronic exposure can cause health risks [7]. Heavy metals those which contaminate or polluted environment most frequently are arsenic, mercury, lead, Calmin cobalt, nickel, copper.

In a periodic table Arsenic belongs to group V elemen Deposition Nitrogen and phosphorus. Arsenic is a type of metallo green and phosphorus. Arsenic is a type of metallo green and inorganization. atomic mass is 74.922 gm/mol. In organic and inorg chemical behaviour in the natural environment. And it l bonding configuration, change color, behavior, reactivity, and toxicity[0].

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गुरु घासीदास विश्वविद्यालय (केन्रीय विश्वविद्याल अधिना 2008 क्र. 25 के कंपन स्वाप्त केन्रीय विश्वविद्याल) कोनी, बिलासपुर - 495009 (छ.ग.)



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Koni, Bilaspur – 495009 (C.G.)

Sex determination from ridge density of Palm print Among the population of Brahmin in Madhya Pradesh & Chhattisgarh Region

A

Project Dissertation in Partial Fulfillment for Degree of

Master of Science

In

Forensic Science

Submitted

By

Asha Tripathi

(Enrollment no: GGV/21/10404)

Under the Supervision of

Dr. Chanchal Kumar

Assistant Professor

Department of Forensic Science

Guru Ghasidas Vishwavidyalaya, Bilaspur-495009 (C.G) 2023



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FORWARDING CERTIFICATE

This is to certify that the project report entitled "Sex determination from ridge density of palm print among the population of brahmin in madhya pradesh & chhattisgarh Region" submitted by Miss Asha Tripathi is his individual work and has been done at the Department of Forensic Science, Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.). It is recommended that this project be presented to the examiner for evaluations in partial fulfilment of the Master's Degree in Forensic Science.

Place:

Date: 3 | 8 | 2023

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"Detection of Adulterants present in the cow's milk of Bilaspur Region"

M.Sc. Dissertation submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur in partial fulfilment of the requirements for the degree of

Master of Science

In

Forensic Science

By

Manish Rajwade

Roll No. 21046119

Enrolment No. GGV/21/10413

Under the Guidance of

Miss. Blessi N. Uikey

Assistant Professor

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2023



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This is to certify that Mr. Manish Rajwade of M.Sc. IV Semester, Department of Forensic Science has completed his dissertation entitled, "Detection of Adulterants present in the cow's milk of Bilaspur Region", under the supervision of Miss Blessi N. Uikey. I wish him all the success.

Place: Bilaspur

Date: 08 08 2023

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Assistant Professor

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Identification and Visualization of Benzodiazepine drugs using color test and thin layer chromatography

A Dissertation submitted in partial fulfilment for the award of the Degree of Master of Science

In

Forensic Science

(2021-2023)



Submitted By Shivani Dewangan

Enrolment No: GGV/21/10425

Under the Supervision of

Dr. Chanchal Kumar

Assistant Professor

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This is to certify that Miss Shivani Dewangan of M.Sc. IV Semester, Department of Forensic Science has completed her dissertation entitled, "Identification and visualization of Benzodiazepine drugs using color test and thin layer chromatography test under the supervision of Dr. Chanchal Kumar I wish her all the success.

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Guru Ghasidas Vishwavidyalaya (ACentral University Establish ed by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur - 495009 (C.G.)

Role of CYP2E1 (Dra I) Polymorphism in the alcoholic population

A

Dissertation Project submitted in partial fulfilment of the requirements for the Award of The Degree of Master of Science

In

Forensic Science

2021-2023

Submitted By

Kapil Raikwar

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Under The Supervision of

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FORWARDING CERTIFICATE

This is to certify that the project report entitled "Role of CYP2E1 (Dra I) Polymorphism in the Alcoholic Population" submitted by Mr. Kapil Raikwar is his individual work and has been done at the Department of Forensic Science, Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.). It is recommended that this project be presented to the examiner for evaluation in partial fulfilment of the Master's Degree in Forensic Science.

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Guru Ghasidas Vishwavidyalaya

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Koni, Bilaspur - 495009 (C.G.)

"A PILOT STUDY TO EVALUATE THE IMPACT OF FABRICS ON ADHERENCE CAPABILITY OF DIATOMS"

A

M.Sc. Dissertation

Submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur

In partial fulfillment of the requirement for the

Degree of

Master of Science

In

Forensic Science

By

Ms. DHANYA R

(En. No.: GGV/21/10410; Roll No: 22046111)

Under the Guidance of

Dr. Ajay Amit

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ABSTRACT

This pilot study investigates the impact of different fabric types on the adherence capability of diatoms from a water body in Bilaspur district, Chhattisgarh, India. Diatoms are microscopic algae with unique silica cell walls, which can be sensitive to different environmental and material conditions. The study aimed to assess how fabrics such as cotton, silk, and chiffon affect diatom retention and identify the diatom genera present on these materials. Water samples were collected from six locations within a pond, divided into peripheral and central sites. Three fabric types' cotton, silk, and chiffon-were cleaned with distilled water and immersed at these sampling sites. After immersion, fabrics were processed to extract diatoms, and water samples were similarly treated using concentrated nitric acid for acid digestion followed by centrifugation. Diatoms from both fabric and water samples were analyzed under a microscope. The control water sample contained twelve diatom genera, including Aldafia, Cymbella, and Nitzschia. Cotton fabrics yielded seven genera, including Navicula and Aldafia. Silk samples showed three genera, notably Fragilaria and Achanthes. Chiffon fabrics yielded four genera, such as Aldafia and Pseudonitzschia. Cotton was found to retain the highest diversity and quantity of diatoms, likely due to its porous and absorbent nature. In contrast, silk and chiffon, with their smoother and less absorbent surfaces, retained fewer diatoms. The study highlights that fabric type significantly influences diatom adherence, with cotton being the most effective at retaining diatoms due to its natural fiber structure. Silk and chiffon, being less absorbent, showed lower diatom yields. This has implications for ecological studies and environmental monitoring where diatom sampling using different materials might be employed. Future research could explore further material types and environmental conditions to refine diatom collection and analysis techniques.

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Death Trends in Bilaspur Districts and Its Nearby Areas: A Retrospective Study

A Project Dissertation in Partial Fulfilment for Degree of

Master of Science

In

Forensic science

Submitted by

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Under the supervision of

Dr. Sudhir Yaday

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"HEREDITARY INFLUENCE IN FINGERPRINTS AND TOEPRINTS AMONG THREE DISTRICTS OF KERALA"

A

M.Sc. Dissertation

submitted to

Guru Ghasidas Vishwayidyalaya, Bilaspur

in partial fulfillment of the requirement for the

degree of

Master of Science

In

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This is to certify that the thesis entitled, "Hereditary Influence in Fingerprints and Toeprints Among Three Districts of Kerala" has been submitted by Ms. Anjali G Babu (MSc IV Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) under the Supervision of Dr. Ajay Amit towards partial fulfilment of requirements for the award of Master's degree in Forensic Science.

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ABSTRACT

Objectives: To explore the hereditary influence on fingerprint and toeprint patterns, to analyse whether they are maternally or paternally influenced.

Method: A total of 56 families were selected and the fingerprints of all ten fingers and the two toeprints were collected using a fingerprint card from three generations of each family. The data was categorized into two i.e. male generation and female generation then subcategorized into three categories, by which similarity between the first and third generations, first and second generations, second and third generations and then the similarity between them were noted.

Results: Similarity between the fingerprint pattern, the first and second generation shows that female generation shows 59% and the male generation has 41%, the incase of toeprints the female generation shows 52 % similarity where male generation shows 48%. Similarity between the fingerprint pattern, the second and third generation shows that female generation (61%) is more dominant than male generation (39%), the incase of toeprints the female generation shows 52% similarity where male generation shows 48%. Similarity between the fingerprint pattern, the first and third generation shows that female generation (59%) is more dominant than male generation (41%), the incase of toeprints the female generation shows 65% similarity where male generation shows 35%. Conclusion: the fingerprint and toeprint patterns shows significant hereditary influence and the result shows that the maternal influence is higher than the paternal influence.

Key Words: fingerprint, toeprint, hereditary, maternal, paternal

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STUDY THE ROLE OF GLUTHIONNINES TRANSFERASE GENE IN NUETRILIZING THE EFFECT OF HEAVY METAL AND SMOKING EXPOSURE IN HUMAN

THESIS DISSERTATION

SUBMITTED TO GURU GHASIDAS VISHWAVIDHYALAYA, BILASPUR FOR THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

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IN

FORENSIC SCIENCE

(SESSION 2021-2023)

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This is to certify that the Dissertation project on "Study the role of gluthionine S transferase gene in neutralizing the effect of heavy metal exposure in human" is an authentic record Thesis writing work done by HASEENA a student of M.Sc. Forensic Science IV semester, Department of Forensic Science of this university.

Place: Bilaspur (Chhattisgarh)

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ABSTRACT:

Toxic effects and oxidative stress are consequences of different heavy metal exposures. As opposed to glutathione-S-transferases, which are known as oxidative stress-related genes and involved in metal bio-transformation. Smoking exposure can interact with gene polymorphisms (variations in the DNA sequence) to influence an individual's susceptibility to certain health effects related to smoking. Gene polymorphisms can affect how the body metabolizes and responds to the chemicals present in tobacco smoke. leading to varying levels of risk for smoking-related diseases. The metabolism of several xenobiotics, including an environmental carcinogens and pollutants is regulated by the glutathione S-transferases (GSTs). These genes' genetic polymorphisms may cause inter individual variation in a person's susceptibility to various diseases. The purpose of the present study is to investigate GSTM1 and GSTT1 null phenotype in population exposed to industrial pollution. 50 samples were collected from area of Korba Super Thermal Power Plant in Jamnipali, Korba district, Chhattisgarh. Null phenotype was identify using polymerase chain reaction. We had observed 48% GSTM1 null phenotype and 40% GSTT1 null phenotype and 12% GSTM1 and GSTT1 both. These results help in future genetic and clinical investigations into metal toxicity, GST substrate susceptibility, and response variation.

Keyword: GSTM1- GSTT1- null phenotype.

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"Comparative Analysis of Diatom Communities in Rivers and Ponds of the Bilaspur Region, Chhattisgarh"

A Dissertation submitted in partial fulfillment for the award of the degree of

Master of Science

In

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> Under the Supervision of Dr. Chanchal Kumar Assistant Professor

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Dr. Chanchal Kumar. I wish his all the success.

Assistant Professor and Head Department of Forensic Science Guru Ghasidas Vishwavidyalaya Bilaspur, (C.G.) 495009

Place: Bilaspur

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Content list

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Acknowledgement
List of content
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Review of literature's
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Results and Discussion
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"A PILOT STUDY TO EVALUATE THE IMPACT OF FABRICS ON ADHERENCE CAPABILITY OF DIATOMS"

A

M.Sc. Dissertation

Submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur

In partial fulfillment of the requirement for the

Degree of

Master of Science

In

Forensic Science

By Ms. DHANYA R

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Under the Guidance of

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A Central University Bilaspur (C.G.) 2024

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No./F. Sc./2024 Date: 22(8)24

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Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

"Occupational-related changes in Fingerprints: Alterations in Ridges and Furrows"

A Dissertation submitted in partial fulfillment for the award of the degree of Master of Science in Forensic Science

(2021-2023)



Submitted By Mankina Bavana Satya Anveshita

Enrollment No.: GGV/21/10414

Under the Supervision of

Mrs. Shweta rai

Assistant Professor

DEPARTMENT OF FORENSIC SCIENCE GURU GHASIDAS VISHWAVIDYALAYA, KONI, BILASPUR C.G.495009

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"HANDWRITING DIFFICULTIES IN CHILDREN WITH AUTISM SPECTRUM DISORDER"

Dissertation Submitted in partial fulfilment of the requirement for the award of the degree of

Master of Science in forensic science

To

GURU GHASIDAS VISHWAVIDYALAYA

(A Central university established by the act of parliament, 2009)



Submitted By-

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M.Sc. IV Semester

(Enrollment no: GGV/21/10418, Roll No- 21046124)

To

Under the guidance of

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ABSTARCT:

Handwriting skills are very crucial for academic, and one of the ways of communication also, and build self-esteem, have been observed to be poor in individuals with ASD. Little information and little studies exist on the handwriting of children with ASD. This study aimed to map out the existing handwriting difficulties in children with ASD. The current studies implies that fine motor control and visual motor control affects handwriting difficulties. Moreover, the handwriting characteristics such as line quality, tremor, pen pressure, speed, alignment, strokes formation, movement, spacing, shading, slant, starting and ending strokes, diacritics, everything should be specifically examined to identify their impairments in the handwriting of children with ASD compared with control group. Children with ASD showing the poor legibility, and showing worse performance in all the 13 parameters. The study specifically observes the 13 parameters to each sample. All showing the poor quality, alignment etc.

<u>KEYWORDS:</u> Handwriting. ASD (autism spectrum disorder). Fine motor control. Legibility.
Non autism.

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गुरु घासीदास विश्वविद्यालय (क्ट्रीयविस्तरेवालय अधिन्य 2008 क्र. 25 के अंतर्गत स्वासित केन्द्रीय विस्तरेवालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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MATERNAL HEMOGLOBIN LEVELS CORRELETED WITH LOW BIRTH WEIGHT OUTCOMES

M.Sc. Dissertation submitted at Guru Ghashidas Vishwavidyalaya, Bilaspur in partial fulfillment of the requirement for the degree of

Master of Science

In

Forensic Science

By

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(Enrollment No. - GGV/21/10429 Roll No- 21046138)

Under the supervision of

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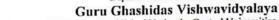
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"Interscript analysis of Telugu handwriting for personal identification"

A Dissertation submitted in partial fulfillment for the award of the degree of

Master of Science in Forensic Science

(2021-2023)



Submitted By Chandana Veldurthi Enrollment No.: GGV/21/10406

> Under the Supervision of Ms. Blessi Uikey Assistant Professor

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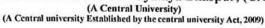
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This is to certify that Ms. Chandana Veludurthi of M.Sc. IV Semester, department of Forensic Science has completed her dissertation entitled, "Interscript analysis of Telugu handwriting for personal identification" under the supervision of Ms. Blessi Uikey. I wish her all the success.

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A PRELIMINARY STUDY OF DIATOM FLORA (GENERA) FROM DIFFERENT WATER BODIES OF DISTRICT SURAJPUR OF CHATTISGARH AND ITS FORENSIC PERSPECTIVE.

٨

M.Sc. Dissertation

submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur

in partial fulfillment of the requirement for the

degree of

Master of Science

In

Forensic Science

By

Puja Ekka

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Under the Guidance of

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This is to certify that the thesis entitled "A Preliminary Study of Diatom Flora (Genera) From Different Water Bodies of District Surajpur of Chhattisgarh and its Forensic Perspective" has been submitted by MISS PUJA EKKA (MSc IV Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) under the Supervision of Dr. Ajay Amit towards partial fulfilment of requirements for the award of Master's degree in Forensic Science.

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ABSTRACT

Diatoms are special microalgae that are present in practically all bodies of water. They are common in aquatic bodies and the only single-celled organisms with a siliceous cell wall or frustules. They are useful in forensic investigations because of their presence and diversity, particularly in drowning instances. By connecting suspects to the crime site, diatoms can be used as trace evidence. Diatom species diversity varies geographically and is driven by seasonal changes and environmental conditions. Diatoms have been the subject of extensive research in several Indian states, however the diversity of diatoms in the major rivers of the Chhattisgarh region has not been examined. With the forensic significance of diatoms in the field of forensic science the diatoms considered to be the one of the important physical as well as biological pieces of evidence that provided valuable insight for providing the conclusive result in the cases of anti-mortem drowning. The objective of the presented study is to provide a preliminary study for the identification of water bodies to analysed the diversities and genera identification on the basis of the distinct water bodies with minimum distance between 5-30km. It would be also helpfulfor the future aspects for the creation of limnological data of district Surajpur of Chhattisgarh where as the presented study concludes the findings of total 29 genera among 18 different water bodies of Surajpur district of sChhattisgarh that would be helpful in the aid of criminal justice system.

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Guru Ghasidas Vishwavidyalaya (ACentral University Establish ed by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur - 495009 (C.G.)

"A STUDY ON EXAMINATION OF INVISIBLE INK BY USING DIFFERENT TYPES OF METHODS AND INK SENSITIVITY OVER A PERIOD OF TIME IN SECRET HANDWRITNG"

A Dissertation submitted in partial fulfillment for the award of the degree of Master of Science

In

Forensic

Science

(2021-2023)



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Head of the Department

Dr. Sudhir Yadav

Assistant Professor

Department of Forensic Science

G.G.V. Bilaspur (C.G

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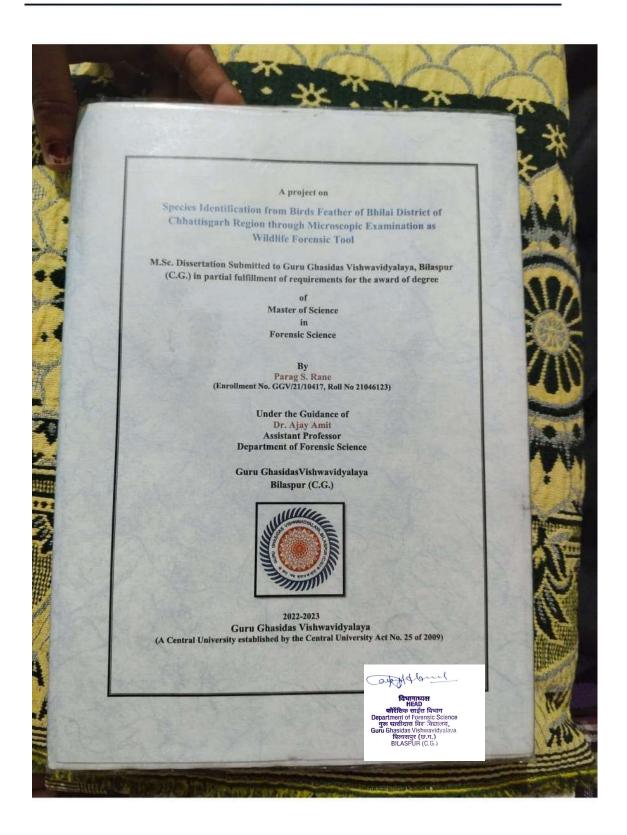
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A RESEARCH ON

"ASSOCIATION OF RENAL FUNCTION TEST WITH BIRTH OUTCOMES IN PREGNANT WOMEN"

SUBMITTED FOR

PARTIAL FULFILMENT OF THE DEGREE OF

M.Sc. HONS IN FORENSIC SCIENCE

BY

Aishwariya Santosh Yewale

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DEPARTMENT OF FORESIC SCIENCE
GURU GHASIDAS VISHWAVIDYALAYA BILASPUR C.G.
UNDER THE SUPERVISION OF

Dr. Sudhir Yadav

ASSISTANT PROFESSOR

And Ph.D schlor Miss Maitri Naik

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Topic <u>"ASSOCIATION OF RENAL FUNCTION TEST WITH BIRTH OUTCOMES"</u>
IN PREGNANT WOMEN" Under The Supervision Of Dr. Sudhir Yadav For The
Partial Fulfillment Of The Hon's Degree Of Master Of Science In Forensic
Science.

It Represents Entirely An Independent Work From The Part Of The Candidates.

Supervisor

Dr.SudhirYadav

Assistant Professor (Head)

Department of Forensic Scie....

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And Ph.D schlor Miss Maitri Naik

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Head

Dr.SudhirYadav Assistant Professor& Head Department of Forensic

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(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

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A RESEARCH ON

"CORRELATION BETWEEN FINGERPRINT PATTERN OF INDEX FINGER AND INTELLIGENCE QUOTIENT IN ADOLESCENT"

M.Sc. dissertation submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur in partialfulfilment of the requirements for the degree of

> Master of science In Forensic Science

By Roshan Verma (E.No. GGV/18/3232, Roll No. 21046130)

Under the guidance of

Miss. Priya Bhaisare Sub-Coordinator Department Of Forensic Science Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.)



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This is to certify that Mr. ROSHAN VERMA of M.Sc. IV semester, Department of Forensic Science has completed his dissertation entitled "Correlation between fingerprint pattern of index finger and intelligence quotient in adolescent" under the guidance of Miss.Priya Bhaisare. I wish him all the success.

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Dr. Sudhir Yaday

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Evaluation of relation between luminol sensitivity with blood dilution in different condition on different industrial material surfaces

M. Sc. Dissertation submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur in partial fulfilment of the requirements for the degree of

Master of Science

In

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By

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Roll no. 21046132; En. No. GGV/21/10424

Under the Guidance of

Dr. Ajay Amit

Assistant professor

Department of Forensic Science

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This is to certify that Mr. Saraj Randhari of M.Sc. IV Semester, Department of Forensic Science completed his dissertation entitled, "Evaluation of relation between luminol sensitivity with blood dilution in different condition on different industrial material surfaces" under the supervision of Dr. Ajay Amit. I wish him all the success.

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Dr. Sudhir Yadav

Assistant professor Head Department of Forensic Science Guru Ghasidas Vishwavidyalaya Bilaspur, (C.G.) 49500



ABSTRACT

In this study, we investigated the relationship between luminol sensitivity and blood dilution on various industrial surfaces. Luminol solutions of varying concentrations (10%, 20%, 30%, 40%, 50%, and 100%) were prepared, along with different blood dilutions (1:15, 1:50, 1:100, 1:500, 1:1000). These solutions were applied to diverse industrial surfaces, including fly ash brick, clay brick, normal painted wall, putty painted wall, and concrete. Luminol was sprayed onto the surfaces at different time intervals (5 minutes, 6 hours, 16 hours, 2 days, and 5 days). The results highlight the effects of surface type, luminol concentration, blood dilution, and time on luminol sensitivity, providing valuable insights for understanding the interactions between blood residues and industrial materials. Luminol is a chemical that reacts with the iron in haemoglobin, the component responsible for carrying oxygen in red blood cells. When blood is exposed to air, it starts to undergo decomposition, breaking down the haemoglobin and reducing the iron content over time. After 5 days, the concentration of iron in the blood may have significantly decreased, making it less detectable with luminol on surfaces without water dip.

On the other hand, when blood comes into contact with water, it can slow down the decomposition process and preserve the iron content to some extent. As a result, the presence of water on the surfaces can facilitate the luminol reaction and enhance the detection of blood even after 5 days.

विभागाध्यक्ष HEAD कोरेंसिक साईस विभाग Department of Forensic Science गुरु घारोवारा विश्वालय, Guru Ghasidas Vishwavidyalaya MICROSCOPIC STUDY OF SURFACE MORPHOLOGY & FILTRATION EFFICIENCY OF COMMONLY AVALIABLE FACE MASK USED BY POPULATION OF BILASPUR, CHHATTISGARH, INDIA



A Dissertation submitted in partial fulfillment for the award of the degree of Master of Science

In

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Babida M S

Enrollment No.: GGV/18/3058

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Head of Department

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This is to certify that the dissertation entitled "Microscopic study of surface morphology and filtering efficiency of commonly available face masks used by the population of Bilaspur, Chhattisgarh, India" submitted by Miss BABIDA M S Department of Forensic Science Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for the award of M.Sc. degree in Forensic Science. This is certifying that it is original research work done by her under my able guidance. I further certify that the work is original, and the dissertation or part thereof has not formed the basis for the award of any other degree.

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Dr. Sudhir Yadav

Head of Department &

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Analyzing the Effectiveness of Various Software Tools for Detecting the Tampering of Document Images: A Comparative Study

M.Sc. Dissertation submitted at Guru Ghashidas Vishwavidyalaya, Bilaspur in partial fulfillment of the requirement for the degree of

Master of Science

In

Forensic Science

By

MUNAGANTI NANDA KUMAR

(Enrollment No. - GGV/21/10416 Roll No- 21046122)

Under the supervision of

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"DETECTION OF DECEPTION BY USING DIFFERENT PARAMETERS OF POLYGRAPH IN MALES AND FEMALES"

M.Sc. dissertation submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur in Fulfillment of the requirement for the degree.

Master of Science

In

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(2021-2023)



Submitted By

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CERTIFICATE

This is to certify that the dissertation entitled "Detection of deception by using different parameters of Polygraph in males and females" submitted by Miss. Rakshita Gautam, Department of Forensic Science Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for the award of M.Sc. degree in Forensic Science. This is to certifying that it is original research work done by me under guidance of Mr. Ashvani Kumar Prajapati, Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).

Place: Bilaspur
Date: 03 | 08 | 2023

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Detection of Organophosphorus (chlorpyriphos) pesticide residue in vegetables by using thin layer chromatography"

M.Sc. dissertation submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur in partial fulfilment of the requirements for the degree of

> Master of Science In Forensic Science

> > By

Gyanendra Kumar Prajapati (E.No. GGV/21/10410, Roll No. 21046115)

Under the guidance of

Mr. Ashvini Prajapati Sub-Coordinator Department Of Forensic Science Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.)



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Ir. Ashvini Prajapati epartment of forensic science uru Ghasidas Vishwavidyalaya ilaspur (C.G.)

CERTIFICATE

his is to certify that the dissertation entitled "Detection of organophosphorus (chlorpyriphos) esticide residue in vegetables by using thin layer Chromatography" submitted by GYANENDRA KUMAR PRAJAPATI to Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for the ward of M.Sc. degree in forensic science is the research work carried out by him. I wish him all the uccess.

Place: Bilaspur

Date: 03/08/23

Carpholomy

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Mr. Ashvani Prajapati



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A RESEARCH ON

"Study of Genetic Polymorphism (GSTT1) associated with Arsenic metal toxicity in affected population of Rajnandgaon district, Chhattisgarh"

SUBMITTED FOR

PARTIAL FULFILMENT OF THE DEGREE OF

M.Sc. IN FORENSIC SCIENCE

BY ADITI NAYAK

M.SC. FORENSIC SCIENCE
(ENROLL.NO. -GGV/18/3018 ROLL NO. -21046102)
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UNDER THE SUPERVISION OF

Miss. BLESSI N. UIKEY

ASSISTANT PROFESSOR

And

CO-SUPERVISION OF

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This Is to Certify That Ms. ADITI NAYAK Student Of M.Sc.(Forensic Science)4thSemester Carried Out The Project On The Topic "Study of Genetic Polymorphism (GSTT1) associated with Arsenic metal toxicity in affected population of Rajnandgaon district, Chhattisgarh" Under The Supervision of Miss. Blessi N. Uikey for The Partial Fulfillment of The Degree Of Master Of ScienceIn Forensic Science.

Supervisor

Miss. Blessi N. Uikey Assistant Professor Department of Forensic Science Juru Ghasidas Vishwavidyalaya Bilaspur (C.G.) Head of Department

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Koni, Bilaspur - 495009 (C.G.)

"ANALYSIS OF LIP PRINT PATTERN IN DIFFERENT AGES AND ETHNIC GROUP OF INDIVIDUAL OF BHILAI AND BILASPUR REGION OF CHHATTISGARH AND EVALUATION OF THEIR FORENSIC SIGNIFICANCE"

M.Sc. Dissertation

Submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur in partial fulfillment of the requirement for the

Degree of

Master of Science

In

Forensic Science

Ву

Aanchal Verma

(En. No.: GGV/18/3214; Roll No.: 21046101)

Under the Guidance of

Dr. Ajay Amit

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GURU GHASIDAS VISHWAVIDYALAYA

A Central University Bilaspur (C.G.) 2023



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This is to certify that the thesis entitled, "Analysis Of Lip Print Pattern In Different Ages And Ethnic Group Of Individual Of Bhilai And Bilaspur Region Of Chhattisgarh And Evaluation Of Their Forensic Significance" has been submitted by Miss Aanchal Verma (MSc IV Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) under the Supervision of Dr. Ajay Amit towards partial fulfilment of requirements for the award of Master's degree in Forensic Science.

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ABSTRACT

Cheiloscopy is a forensic investigation technique that deals with identification of human based lip traces. The current study was carried out on 180 individuals of both males and females. The aim is to compare the lip print patterns on the basis of categories (ST, SC, OBC, GENERAL), in population of Bhilai and Bilaspur region of Chhattisgarh. It is found that from the category Schedule Tribe the most frequent lip print found are Type I, and in categories Schedule Caste, Other Backward Class, and General, the most frequent type of lip print pattern found are Type II. This study concludes that, the cheiloscopy is useful for the human personal identification according to ethnicity of an individual.

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Maternal Factors and Their Association with APGAR Scores: A Comprehensive Analysis

A

Project Dissertation in Partial Fulfillment for Degree of

Master of Science

In

Forensic Science

Submitted

By

Reetika Shukla

(Enrollment no: GGV/21/10423)

Under the Supervision of

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This is to certify that the project report entitled "Maternal Factors and Their Association with APGAR Scores: A Comprehensive Analysis" submitted by Miss. Reetika Shukla, is her individual work and has been done in joint collaboration with the Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh and Department of Obstetrics and Gynaecology, Chhattisgarh Institute of Medical Sciences & Hospital, Bilaspur, Chhattisgarh. It is recommended that this project be pleased before the examiner for evaluation in the partial fulfillment of the Master's degree in Forensic Science.

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"ANALYSIS OF URINE CREATININE OF DIABETIC PATIENTS UNDER DIFFERENT AGE GROUPS"

Λ

M.Sc. Dissertation

submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur

in partial fulfillment of the requirement for the

degree of

Master of Science

In

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FORWARDING CERTIFICATE

This is to certify that the thesis entitled, "Analysis Of Urine Creatinine Of Diabetic Patients Under Different Age Groups" has been submitted by Ms. Ramsiya P S (MSc IV Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) under the guidance of Dr . Ajay Amit towards partial fulfilment of requirements for the award of Master's degree in Forensic Science.

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ABSTRACT

This project entitled to "Comparative study of urine creatinine level of different age groups of diabetic patients". The main objective of the study is to collect list of diabetic patients and creatinine values from five different laboratories and to take survey of those patients having sugar level (above 200). It is the process of identifying the sugar levels, education, living background (Municipal, corporation, panchayat) food habits, any renal diseases etc. Collect the list of urine creatinine values and sugar level above 200 (after fasting). Categorise the list of patients according to different age groups. Prepare a consent form and have to take consent from each individual. The details regarding to analyse the creatinine levels of human urine under different age groups like three categories (30-40, 40-50, 50-60, above 60) and to check whether if they have same sugar levels and creatinine levels. Then, compare the assessed data with rate of creatinine levels of urine samples and to take statistical analysis of collected data.

Key words: Creatinine, Diabetic, Renal diseases

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"USES OF HAIR DYE POWDER AS A NON-CONVENTIONAL ALTERNATIVE IN THE PLACE OF COMMERCIAL LATENT FINGERPRINT POWDER ON DIFFERENT SURFACE"

Α

M.Sc. Dissertation

submitted to

Guru Ghasidas Vishwavidyalaya, Bilaspur

in partial fulfillment of the requirement for the

degree of

Master of Science

In

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FORWARDING CERTIFICATE

This is to certify that the thesis entitled "Uses of Hair Dye Powder As A Non-Conventional Alternative In The Place Of Commercial Latent Fingerprint Powder On Different Surface" has been submitted by MISS LEESHA RANADE (MSc IV Semester) Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) under the Supervision of Dr. Ajay Amit towards partial fulfilment of requirements for the award of Master's degree in Forensic Science.

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ABSTRACT

Fingerprints serve as an essential piece of evidence when it comes to identifying a person, and they are widely used in criminal investigations. In the current situation, fingerprints are quite significant. The majority will develop latent prints using the chemical and physical powder methods. We attempted to create the prints using unconventional herbal powders methods (Heena Natural dye) because conventional fingerprint black powder due to their hazardous nature, limited availability, and expensive cost. So it's simple to find these unconventional home substances. Natural dyes are extracted from natural sources like from plants, leaves, flower shoots seeds, invertebrates, or minerals etc. most common household natural dye is henna powder, its botanical name is Lawsonia inermis. It's a flowering and non-toxic plant. In this study a new easily available and less expensive powder for development of latent fingerprints that is hair dye powder. It is easily available in the market and is comparatively very cheap from latent fingerprint powders to develop latent fingerprints. The hair dye powder has an also similar Particle size to fingerprint powder. In the presented work a comparative study has been performed by usinghair dyes powder which is compared with fingerprint powder on both porous and nonporoussurfaces. This resulted better enhancement in nonporous surface by using natural brown hair dye powder.

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