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INDIAN JOURNAL OF FO-RENSIC ODONTOLOGY VO.4 NO.1-2 JAN - JUNE 2011

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# Distance learning or online course and laboratory

**Course Offering:** Beginning Jan 2011

Course Award: Module (3); Certificate in

forensic odontology **Module (6);**Post graduate certificate in forensic odontology (6 Modules

must be taken)

Required Textbooks, Reference Manuals and Articles for the 6 Modules:

- 1. **Rai B, Kaur J. Forensic odontology:** BR group study , LAP LAMBERT Academic Publishing, Germany.
- 2. Indian Journal of forensic odontology.
- Manual Of forensic Odontology, 5rd Edition, American Society Of forensic Odontology, 2009.
- 4. Course notes by Rai B and kaur J

Various bound and unbound articles to be named

#### Course director

Dr.Balwant Rai , associate professor, KS University, USA

### Course objectives

To provide theoretical and practical experience for those interested in forensic odontology

To provide knowledge to solve medico-legal cases in courts.

#### **Course Modules**

The course comprises six Modules: three distance-learning Modules (1,2,3), and two laboratory Modules (4, 5,6). Each Module (1, 2 and 3) is presented at a different time in the calendar year over a 24 week period. Modules

4, 5 and 6 are each three-week intensive handson laboratory courses. A course participant can only register for a single Module at a time.

Each Module is three continuing education credits (40 hours).

The course director reserve the right to limit the number of Modules offered in any given year and the number of registrants in any given module.

A registrant who has successfully completed the time requirements, theoretical, analytical, practical, assignment, and examination components of a Module (45 hours) will receive a certificate attesting to the completion for that Module.

A registrant who has successfully completed the time requirements, theoretical, analytical, practical, assignment, and examination components of all five Modules is granted a certificate of training in forensic odontology by University.

#### General considerations

All course material, lectures, correspondence will be in the English language.

The Internet distance-learning course or corresponding course (Module: 1, 2 and 3) has theoretical, analytical, practical, assignment, and examination components.

Normally Modules 1, 2 and 3 are prerequisites to the complimentary laboratory/practical Modules 4, 5 and 6.

Complimentary laboratory Modules 4, 5 and 6 are held at Jain diagnostic centre or any other centre.

Applicants wishing to register for a laboratory

course director and obtain security clearance from appropriate authorities. Failure to obtain security clearance precludes course registration. Laboratory Modules 4, 5 and 6 include hands-on autopsy, identification and bitemark procedures in addition to theoretical, analytical, practical, assignment, and examination components on wet and dry specimens.

While participating in Module 4, 5 and 6 course registrants are responsible for their own accommodation, lodging, food and transportation. Special rates for accommodation, lodging and food are available for course registrants.

Course registrants must partake in chat room/ online discussions with fellow registrants and/or individual instruction/discussion with the course director. Chat room/online discussions will be held periodically at predetermined times.

# Course applicants

Course applicants must possess a BDS, DDS, DMD, MBBS, MD, MS, MSc or equivalent degree from a recognized academic institution.

#### Course content

# Module 1: identification part 1

Body identification guidelines and terminology; Dental identification methods/techniques Forensic radiography and forensic photography; Special methods/techniques: Cheiloscopy, rugoscopy, facial reconstruction Post mortem dental charting Ante and postmortem records Dental nomenclature Dental comparison Legal report writing Mass disaster management; Computer hardware and software: Win ID and

# Ethics and the forensic expert;

Interpol

Destructive methods Non-destructive methods Dental age estimation methods for child Dental age estimation for sub-adults Dental age estimation for adults Writing report

Module 2: dental age estimation

#### Module 3: bitemark evidence

Child, sexual and geriatric abuse Bitemark recognition

Bitemark evidence: terminology, diagnosis, victim/suspect

# Collection of Bitemark Evidence A. Noninvasive Analyses

Photography Salivary Swabbing - DNA Bitemark Impressions Non-Perishables And Perishables

# **B.** Invasive Analyses

Tissue Specimens: preservation methods/ techniques Histology And Timing Of Injury

# COLLECTION OF EVIDENCE FROM THE SUSPECT

Court Order/Informed Consent Dental History Standard Photography Digital Photography Extra Oral Examination Intra Oral Examination Impressions Study Casts, duplicates/replication Digitization

#### METHODS OF COMPARISON

Test Bites Static Test Bites Wax Styrofoam **Dental Impression Materials Identical Substances** Animal Skin Dynamic Test Bite on a Volunteer

Direct Comparison - Suspect Biter and the

- Suspect Biter and the **Excised Tissue** 

- Suspect Biter and the Bitemark Impression

Dental Nomenclature Overlays Simple Overlays Computer Generated Overlays Metric Analysis

Digital Analysis

Other Comparison Techniques Pattern Analysis in 3-Dimensions

# MODULE 4: IDENTIFICATION PRACTICAL (LABORATORY)

## **Autopsy including**

Postmortem photography – standard and digital

Postmortem radiography – standard and digital

Oral examination and autopsy

Wet and dry specimens

Report writing: Orientation, Comparison

Types and Reliability of Conclusions

The Courts and the Judicial System

Expert witness testimony

# MODULE 5: BITEMARK PRACTICUM (LABORATORY)

Collection Of Bitemark Evidence

A. Noninvasive Analyses

Photography

Salivary Swabbing - DNA

**Bitemark Impressions** 

# **B.** Invasive Analyses

Tissue Specimens: Ring Technique and

Tissue Excision

Tissue Fixation

Tissue Storage

Transportation

Transillumination

The Microscope

Histology

Post-Fixation and Storage

#### **METHODS OF COMPARISON**

Test Bites

**Static Test Bites** 

Wax

Styrofoam

**Dental Impression Materials** 

**Identical Substances** 

Animal Skin

Dynamic Test Bite on a Volunteer

Direct Comparison - Suspect Biter and the

**Excised Tissue** 

Direct Comparison - Suspect Biter and the

Bitemark Impression

Dental Nomenclature

Inverting Cast (flip horizontal) for

Comparison

Overlays

Simple Overlays

Computer Generated Overlays

Metric Analysis

Digital Analysis

Other Comparison Techniques

Pattern Analysis in 3-Dimensions

Videotape

Ink Immersion Technique

Other Methods of Computer Aided

Visualization

**Report writing:** Orientation, Comparison

Expert witness testimony

#### Module 6: dental age estimation

Skeletal and Dental Age Calculation with Practical Training

### **Equipment:**

Course registrants must possess a notebook/ portable PC compatible computer with appropriate specifications, a variety of software programs including Adobe Photoshopâ, and high-speed Internet access.

Course registrants must also possess an appropriate digital camera with computer downloading capabilities.