

**NATIONAL INSTITUTE OF NUTRITION**  
Indian Council of Medical Research  
Jamai-Osmania PO, Hyderabad-500 604

**NOTIFICATION**

**XXXV ANNUAL TRAINING COURSE ON  
ENDOCRINOLOGICAL TECHNIQUES AND THEIR  
APPLICATION  
(17<sup>th</sup> August – 30<sup>th</sup> September 2009)**

**Last Date for Submission of Application: 17<sup>th</sup> June, 2009**

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The course imparts training on practical aspects of hormone assays as well as theoretical aspects concerning the principles underlying endocrinological techniques and their application in clinical medicine. The course is useful for teachers in medical colleges in the areas of Endocrinology, Pharmacology, General Medicine, Pediatrics, Obstetrics & Gynaecology, Physiology and Biochemistry and scientists working in research organizations, university departments, and biochemists working in large hospitals.

**Essential Qualifications** : A basic degree in Medicine (MBBS) OR  
A Master's Degree in Biochemistry/Physiology.

**Age limit** : 50 years

**Tuition Fee** : In-service candidates : No Fee

Private Candidates : **Rs.8,000/- per head**

**NO TA / STIPEND WILL BE PAID TO THE CANDIDATES BY THE INSTITUTE**

**Accommodation** :

The participants in the course will be accommodated in a well-furnished hostel on the campus of the National Institute of Nutrition on payment of necessary charges (approximately @ Rs. 100/- per day per head).

Prescribed applications are obtainable from the **Scientist 'F', Head, Extension & Training Division, National Institute of Nutrition, Jamai-Osmania PO, Hyderabad- 500 604, Andhra Pradesh**, should be submitted before the stipulated date. For further details, contact through E-mail: [petninhyd@yahoo.com](mailto:petninhyd@yahoo.com); or Telephone: 040-27018234.

**DIRECTOR**

## **ANNUAL TRAINING COURSE ON**

### **“ENDOCRINOLOGICAL TECHNIQUES AND THEIR APPLICATION”**

Research in various branches of medical sciences requires the use of endocrinological techniques, which are often highly sophisticated. Such techniques are now employed increasingly for diagnostic purposes. Many of these methods including radioimmunoassay procedures have been standardized by the Endocrinology Division of the National Institute of Nutrition (ICMR), Hyderabad, India.

The course offers training in the practical aspects of hormone assays as well as theoretical background of the principles underlying various hormone assays and the significance of their estimations. Theoretical and practical aspects of radioactive isotopes and radioisotope counters will also be covered.

The training programme covers the following:

#### **Theory**

1. Principles of radioactivity and detection and measurement of radiation
2. Health hazards and safe handling of isotopes
3. Planning isotope laboratory
4. Basic endocrinology
5. Laboratory investigations for diagnosis of endocrine disorders
6. Preparation of antigen for antibody production
7. Antibody titre determination
8. Radio Iodination of Peptide Hormone and Purification of labelled hormone
9. Principles of radioimmuno assay (RIA) IRMA and Quality control
10. Principles of ELISA and multiplex ELISAs
11. Principles of DEXA
12. Western blotting, PCR and RT-PCR
13. Iodine deficiency disorders
14. Obesity, Insulin resistance and associated diseases

#### **Demonstrations**

1. Radial immuno diffusion technique
2. Whole body counter
3. RIA of peptide/steroid hormones and IRMA
4. ELISA and multiplex ELISAs (BIOPLEX)
5. Western blotting
6. PCR and RT-PCR
7. Application of DEXA in bone density assessment
8. Measurement of insulin resistance in humans
9. Measurement of body composition by TOBEC

**The medium of instruction is English.**

**NATIONAL INSTITUTE OF NUTRITION**  
(Indian Council of Medical Research)  
Jamai-Osmania PO, Hyderabad-500 007

**APPLICATION FOR ADMISSION TO THE  
ANNUAL TRAINING COURSE ON  
ENDOCRINOLOGICAL TECHNIQUES AND THEIR APPLICATION**

**(17<sup>th</sup> August – 30<sup>th</sup> September 2009)**

Please  
affix  
passport  
size  
photograph

**LAST DATE FOR SUBMISSION OF APPLICATION: June 17, 2009**

Category of the Applicant :  Sponsored  Private (Non-Sponsored)

Status of application\* :  Advance copy  Official (Through Proper Channel)

Name and address of the sponsoring Relieving authority\* : \_\_\_\_\_  
\_\_\_\_\_

\*The certificate given at the end of the application should be endorsed by the forwarding authority

\*If your organization does not agree to sponsor you, are you prepared to be considered as a private candidate on payment basis? :  Yes  No

If you are a private/non-sponsored candidate, are you willing to pay Rs.8,000/- towards tuition fee, if selected? :  Yes  No

1. Name in full of the candidate : Dr./Mr./Mrs./Miss \_\_\_\_\_  
 Male  Female \_\_\_\_\_

2. Designation\* : \_\_\_\_\_

3. Official Address : \_\_\_\_\_  
\_\_\_\_\_

4. Address for Correspondence :

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Phone: \*Off.

Res.

Fax:

Email :

\*For Sponsored Candidates  
: 2 :

5. Date of Birth :                      Age :      Years      Do you belong to SC/ST Category?  
 Yes  
 No  
If yes, enclose certificate.

6. Do you possess the required minimum educational qualifications viz.,                       Yes  
 No  
 MBBS or MSc (Biochemistry/Physiology)

If yes, provide details (Please tick the appropriate box) :

MBBS       MD      Master of Science      :       Biochemistry                        
 Physiology

(Enclose photostat copies of the certificates)

7. Educational Institutions attended :

Degree/Diploma	Class/ Division	College/ University	Year of Study		Subject(s)
			From	To	

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8. Employment Particulars

Name of Employer	Nature of Employment	From	To

: 3 :

9. Research or practical experience, after graduation (Please be precise)

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10. List of Publications, if any :

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11. Purpose of attending the course (State what you expect from the course and wish to do after undergoing the course)

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I affirm that the facts stated above are true to the best of my knowledge and belief.

Date :  
**Applicant**

**Signature of the**

: 4 :

**Endorsement by Forwarding Authority\***

The application of Dr./Mr./Mrs./Miss \_\_\_\_\_  
for admission to the Training Course on Endocrinological Techniques and their Application at the National Institute of Nutrition, Hyderabad, is forwarded. The candidate will be relieved, if selected.

**Signature and Official Seal  
of the Sponsoring/ Relieving authority**

- Note : I) In case of any delay in getting their applications forwarded through proper channel, the in-service candidates are advised to send an advance copy of their application directly to the **Scientist 'F & Head, Extension & Training Division, National Institute of Nutrition, Jamai-Osmania PO, Hyderabad-500 604, Andhra Pradesh, India,** before the stipulated date.
- II) Candidates admitted to the course are required to submit original certificates at the time of joining.