

#### ADDRESS FOR SENDING THE APPLICATION / NOMINATION FORMS:

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A scanned copy of the duly filled in nomination / application form can also be sent in advance through e-mail to [p.vasanthakumar@tanuvas.org.in](mailto:p.vasanthakumar@tanuvas.org.in) or [ann-vcric@tanuvas.org.in](mailto:ann-vcric@tanuvas.org.in).

#### Interested candidates may also apply online as given below:

1. Visit the website <http://www.iasri.res.in/cbp/> or Click on 'Capacity Building Program' link under <http://www.icar.org.in>
2. Login using your User Id & Password. To create User Id use "Create New Account" link.
3. After login, click on "Participate in Training" link and fill the Proforma. Take a printout and send duly signed copy through proper channel to the Director of Short Course by post including DD/Postal order.

**LAST DATE FOR RECEIVING APPLICATION / NOMINATION**  
**26.05.2014 (MONDAY)**

#### ABOUT THE PLACE

Namakkal is the District Headquarters and industrial town of Tamil Nadu state situated on the NH-7 (four lane), about 55 km from Salem on the way to Trichy / Karur / Madurai. This place is recently connected with Rail (through Salem / Chennai / Bangalore / Karur) from all over the country. The nearest airports are located at Trichy (85 km), Coimbatore (160 km), Bangalore (250 km) and Chennai (340 km).

The Namakkal zone has a tropical semi-arid type of climate with below normal rainfall. The weather is hot (30 – 35 C) with occasional rainfall during the month of June. This place has attained the national importance by virtue of transport, truck body building, poultry industry and hub of educational institutions. More than 1000 entrepreneurs such as feed manufacturers, chicks and medicine marketing organizations, hatcheries, dairy and poultry farmers are engaged in this region. The magnificent growth of poultry farming had resulted in the establishment of the second Veterinary College in Tamil Nadu at Namakkal during the year 1985.

Kolli hills and Yercaud are the nearest hill resorts. Temple of Lord Anjaneya in Namakkal and Temple of Lord Ranganathar in Trichy are of historical and famous temples.

#### IMPORTANT DATES

Last date for receipt of application : 26.05.2014  
Intimation of selection : 30.05.2014  
Confirmation of participation by candidates : 05.06.2014

## APPLICATION FORM

### TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

Veterinary College and Research Institute,  
Namakkal – 637 002, Tamil Nadu.

#### DEPARTMENT OF ANIMAL NUTRITION

ICAR Short Course on  
"Current Concepts and Recent Developments in  
Animal Feed Resources and  
Fodder Seed Conservation Technologies"

Period and Duration: From 16.06.2014 To 25.06.2014 (10 DAYS)

1. Full name (in block letters) :
2. Designation :
3. Present employer and address :
4. Address for correspondence (Give email, Tel / fax / mobile No.) :
5. Sex: Male/Female :
6. Date of birth and age :
7. Educational Qualification (s) :
8. Employment record during last five years / Professional experience related to research / teaching / extension. :
9. Number of publications during last five years in the relevant area :
10. Mention if you have participated in any training course etc. during previous two years under ICAR / any other organization in the related area :
11. Postal order / DD No. \_\_\_\_\_ dated \_\_\_\_\_ for Rs. 50/- (NON REFUNDABLE) for registration of application (drawn in favour of the Professor and Head, Department of Animal Nutrition, VC&RI, Namakkal) :
12. Signature of applicant (indicate place and date) :
13. Recommendations & certificate of sponsoring institute :

Affix  
Recent  
passport size  
photograph

#### Certificate

Certified that the information furnished by the applicant was verified with office records and found correct.  
Signature with date, designation, address and office seal of the Sponsoring Authority

## TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY



ICAR Sponsored Short Course on

"Current Concepts and Recent  
Developments in Animal Feed Resources  
& Fodder Seed Conservation Technologies"

From 16.06.2014 to 25.06.2014 (10 days)



#### Course Director

**Dr. P. Vasanthakumar**

#### Course Coordinators

**Dr. D. Chandrasekaran**  
**Dr. M.R. Purushothaman**  
**Dr. S. Senthilkumar**  
**Dr. C. Kathirvelan**

*Organised by*

DEPARTMENT OF ANIMAL NUTRITION,  
VETERINARY COLLEGE AND RESEARCH INSTITUTE,  
NAMAKKAL - 637 002, TAMILNADU.

# TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

VETERINARY COLLEGE AND RESEARCH INSTITUTE,  
NAMAKKAL – 637 002, TAMIL NADU.

## DEPARTMENT OF ANIMAL NUTRITION



### ICAR Short Course on

**“Current Concepts and Recent Developments in Animal Feed Resources & Fodder Seed Conservation Technologies”**



**From 16.06.2014 To 25.06.2014 (10 DAYS)**

### INTRODUCTION

Our country is blessed with a huge resource of livestock wealth. India has the largest livestock population and ranks number one in milk production in the world. Similarly, India ranks 3rd in egg and 4th in broiler meat production in the world. Livestock sector contributes approximately 27% to Agriculture GDP. Tamil Nadu state ranks second in both egg and broiler meat production in the country. Namakkal is known for modern poultry production with a layer population of around 3.5 crores. The average feed requirement is 4,000 tonnes per day. Since the cost of production mainly depends on the cost of feeding animals, any attempt to minimize the feed cost will pave way to maximize the profit. In this direction, conservation and judicious use of animal feed resources becomes inevitable under the current scenario of climate resilient livestock and poultry production system. Understanding the current concepts and updating the knowledge on latest developments in the field of poultry, animal feed, forage crops production and conservation is highly essential for sustainable & economical livestock production. Many new feed resources have been explored and modern technologies for preservation / conservation of feeds and fodders have been developed recently. Hence, this training programme is aimed to enrich the knowledge and impart practical training to the participants in the area of Animal Feed Resources and Fodder Seed Conservation Technologies.

### Who Can Participate?

Teachers and Researchers not below the rank of Assistant Professor from State Veterinary and Agricultural Universities including KVKS, ICAR Institutions and Deemed Universities having a minimum of 2 years research / teaching / extension experience are eligible. Candidates with specialization in Animal Nutrition, Livestock Production Management, Poultry Science, Livestock Products Technology, Feed Technology, Forage Crops Production will be given preference. Total number of candidates will be restricted to TWENTY FIVE ONLY.

### Core Faculty

Beside the Course Director and Coordinators of this short course, the following eminent faculty members will serve as resource persons.

1. Dr. K.A.Doraisamy, Dean, Veterinary College and Research Institute, Namakkal.
2. Dr. R. Ravi, Professor and Head, Department of Veterinary Biochemistry, VC & RI, Namakkal.
3. Dr. A. Natarajan, Professor and Head, Animal Feed Analytical and Quality Assurance Laboratory, VC & RI, Namakkal.
4. Dr. B.Mohan, Professor and Head, KVK, Namakkal.

### Supporting Faculty :

The faculty of Tamil Nadu Veterinary and Animal Sciences University and invited / guest faculties from other Universities, ICAR institutions and private industries.

### COURSE CONTENT

The training is designed to impart theoretical knowledge and to offer hands on practical training on 'Current Concepts and Recent Developments in Animal Feed Resources and Fodder Seed Conservation Technologies'.

### COURSE OUTLINE

- Animal Feed Industry in India –Current status and need for conservation of feed resources.
- Conservation of green forages - Silage making from locally available feed resources such as sugarcane tops and newer silage additives.
- Conservation of protein supplements through precision feeding – Digestible amino acid concept.
- Precision feeding of poultry and swine for conserving feed raw materials.
- Climate resilient livestock production system for feed resource conservation.
- Area specific mineral mixture approach for conservation of mineral resources.
- Quality assessment of conserved feed resources – Microbial quality approach
- Use of organic acids and formaldehyde for feed conservation.
- Utilization of futuristic feed resources such as Galactomannan depleted Fenugreek, Azolla, DDGS, Palm and Jatropa oil cake, cotton gin waste etc.
- Feed, fodder, water and energy conservation technologies in livestock production systems–A holistic approach.

### Practical / Field visits

- Visit to automated computerized modern feed mill.
- Demonstration of tower silo with drier facility for feed ingredient storage and conservation.
- Application of ICT tools for precision feeding of ruminants – Hands on Training.
- Application of NIR spectroscopy for analysis and conservation of feed ingredients.
- Advanced multi -mycotoxin analysis by HPTLC method.
- Demonstration of pesticide residue analysis using LC-MS-MS and GC-MS.

- Water and energy conservation technologies in commercial poultry farms – A field study.
- Processing and conservation of poultry industry by-products for feeding livestock – Dry and wet rendering process - Demonstration.
- Fodder seed conservation technologies for forage crops production – PPP model – Case study.
- Visit to 'Automated Environment Controlled House Facility for Poultry Production'.

### DURATION

10 Days (From 16.06.2014 to 25.06.2014).

### VENUE

Department of Animal Nutrition,  
Veterinary College and Research Institute,  
Tamil Nadu Veterinary and Animal Sciences University,  
Namakkal – 637002, Tamil Nadu.

### BOARDING AND LODGING

Free boarding and lodging facilities will be provided to the outstation participants as per ICAR's norms and guidelines of short course. Local participants will be provided lunch, session tea and course materials. Participants are requested strictly not to bring their family as we have limited guest house facility.

### TA & DA

a) Participants will be paid travel fare to and fro for their journey by rail as per their entitlement class of travel restricted however to the maximum of AC II Tier or AC III Tier fare only or bus as the case may be. **(Evidence to be produced)**

b) DA for traveling period will be paid in lieu of incidental charges, as per TANUVAS norms.

### HOW TO APPLY?

Application for participation in the Short Course in the prescribed format and forwarded by the competent authority of the sponsoring institute should be sent to the Course Director. Application not forwarded by the competent authority shall not be considered. Advance copy of application may be sent. However, final selection will be made only after receipt of the original copy through proper channel. A postal order / Demand draft for Rs. 50/- (non-refundable) drawn in favour of **“The Professor and Head, Department of Animal Nutrition, VC&RI, Namakkal”** should be sent along with the application. There is no course fee for joining the course. The last date for receiving applications / nominations is 26th May, 2014. The selected candidates will be intimated on or before 30th May, 2014 either by Fax / Speed post / E-mail / SMS, who in turn have to confirm their participation latest by **5th June, 2014**.