The course will be a combination of hands-on-training, lectures, on-line computer workshops and demonstrations.

**Hands-on-experiments**

DNA extraction  
Polymerase Chain Reaction (PCR)  
Restriction fragment length polymorphism (RFLP)  
SNP detection  
Sequencing  
Sequence Analysis with Seqscape  
Construction of phylogeny tree  
GeneMapper analysis of STR data  
GeneMapper analysis of SNaPshot data  
Real Time PCR for SNP detection and Gene Expression

**Bioinformatics**

NCBI  
Ensembl  
Primer3 (primer design)  
BLAST (NCBI)  
Net Primer

**Lectures**

Role of DNA polymorphisms (Mitochondrial & Nuclear) in understanding the Human origin, Evolution and Diseases.

**Course Director**  
Prof. K.K. Mishra  
Director, An.S.I., Kolkata.

**Faculty**

Dr. P.B.S.V. Padmanabham  
Dr. B.N. Sarkar  
Sri. J. Sreenath  
Dr. A. Chandrasekar

**Laboratory Support**

Dr. P.N. Venugopal  
I. Arjun Rao

**Course Coordinators**

Dr. C.R. Sathyanarayanan  
Dr. A. Chandrasekar

**International School of Anthropology**

(iSA)  
Anthropological Survey of India

**“Genomics of Human Variation”**

A ten-day refresher course with hands-on-training in modern Molecular Anthropological techniques and Bioinformatics

18th July - 27th July 2012

International School of Anthropology (iSA)  
Anthropological Survey of India  
Southern Regional Centre  
Bogadi 2nd stage North  
Mysore-570026  
Karnataka.
Registration

Title: "... First Name: "
Last Name: "
Institutional affiliation: "

Position: "
Address: "
Fax: "
Phone (Daytime): "
E-mail: "

Contact/Enrollment Address
Officer-in-Charge
International School of Anthropology, Anthropological Survey of India, Southern Regional Centre, Mysore.

For additional details contact:
adimoolamchandrasekar@yahoo.com
Cell: 08892956202/09036607782

Workshop Details

When?
July 18th to 27th, 2012.

Where?
International School of Anthropology, Anthropological Survey of India, Southern Regional Centre, Mysore.

Who can apply?
The course is open to Anthropology and life sciences Faculty/Scientists and Students from Universities and research organisations. Application by women, minorities and persons with disabilities are encouraged.

Course Fee
Rs.12000/- (For student concession contact course coordinator) make the payment through Uncrossed DD in favour of DDO AnSI, SRC, Mysore, or Crossed DD in favour of PAO, Department of Culture, Kolkata.

Hospitality
Selected candidates will be provided boarding and moderate accommodation on twin sharing basis.

Last date for registration
5th July 2012

Course Limit
The course is limited to 30 participants

Genomics of Human Variation

The technological revolution in molecular biology opened new vistas for all life sciences with far reaching consequences for Human welfare. Since the beginning of the present century, decoding the human genome has brought about a paradigm shift in our understanding of human evolution, disease and health in terms of genomic diversity.

The ensuing training programme, “Genomics of Human Variation” envisages to introduce the basic techniques of molecular biology that are being used to map the genomic diversity in Biological Anthropology and other life sciences. Lectures and Hands-on-training, during the programme, focus on sequencing and dissecting Human mitochondrial DNA and nuclear genomic variation for understanding evolution and its application in medicine.

For the past Six and half-decades, Anthropological Survey of India has been engaged in mapping Physical, Biological and Genomic diversity of the peoples of India with the state of the art technologies. Anthropological Survey of India intends to disseminate the Molecular Anthropological techniques by organising a series of training programmes to all researchers of life sciences including Physical Anthropology/Human Biology.