PROGRAMME

TENTH NIAS COURSE

ON

AN INTEGRATED APPROACH TO KNOWLEDGE AND INFORMATION FOR UNIVERSITY AND COLLEGE TEACHERS

Co-sponsored By

University Grants Commission, New Delhi
Indian Space Research Organization, Bangalore
and
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

6 to 26 December 2006

Course Theme

CURRENT FRONTIERS OF RESEARCH IN NATURAL SCIENCES, SOCIAL SCIENCES AND HUMANITIES

National Institute of Advanced Studies
Indian Institute of Science Campus
Bangalore 560 012
DAILY SCHEDULE

06.00 AM - 07.00 AM  Yoga
08.00 AM - 09.00 AM  Breakfast
09.30 AM - 11.00 AM  First Lecture
11.00 AM - 11.30 AM  Tea / Coffee
11.30 AM - 01.00 PM  Second Lecture
01.00 PM - 02.00 PM  Lunch
02.00 PM - 03.30 PM  Third Lecture
03.30 PM - 04.00 PM  Tea / Coffee
04.00 PM - 05.30 PM  Project Presentations by Participants
06.30 PM - 08.00 PM  Evening Programme
08.30 PM - 09.30 PM  Dinner

INAUGURATION

6 December 2006 10.00 a.m.

Inaugural Lecture by Prof P. Rama Rao, ISRO Dr Brahmp Prakash Distinguished Professor
International Advanced Research Centre for Powder Metallurgy and New Materials, Hyderabad
The Status of Higher Education in India: Some Personal Perspectives

EVENING PROGRAMME

15 December, Friday  Lecture: Leadership and Management in a Networked World
Prof Dame Sandra Dawson, Director, Judge Business School, Cambridge

16 December, Saturday  Lecture: Bangalore Metro Rail Project
Shri V. Madhu, Managing Director
Bangalore Metro Rail Corporation Limited

22 December, Friday  Lecture: Human Rights and Dignity of Dalit Women
Dr Ruth Manorama, President
of Women and General Secretary, Women’s Voice

23 December, Saturday  Theatre: The Fourth Boon of Nachiketa
A Play by Ordinary People Theatre Group

25 December, Monday  Farewell Function

VALEDICTORY

26 December, Tuesday, 11.00 a.m.

Valedictory Address by Dr P. Venkatrangan, Vice Chancellor, Amrita Vishwa Vidyapeetham, Coimbatore
Approaches to Innovation and Transforming them into Societal Successes
WEEK I

06 Dec, Wed m: Inauguration

a: Orientation to the Course and Meeting with the Faculty of NIAS

07 Dec, Thu m: Of Monkeys, Men and Morals: Studying Primates in India
Anindya Sinha, NIAS

Understanding Indo-US Nuclear Deal
Arvind Kumar, NIAS

a: Think Big, Write Small - The Art of Nanolithography
Giridhar U. Kulkarni, JNCASR, Bangalore

Self-Introduction (1)

08 Dec, Fri m: Indian Philosophical Traditions and Contemporary Thought: Workshop

09 Dec, Sat m: Visit to Belur, Halebid and Shravanabelgola

WEEK II

11 Dec, Mon m: Scales of Organization in Cellular Systems
Satyajit Mayor, NCBS, Bangalore

Participatory Research in Governance
Gopakumar Thampi, Public Affairs Foundation, Bangalore

a: Acoustic Communication in Crickets
Rohini Balakrishnan, CES, IISC

Self-Introduction (2)

12 Dec, Tue m: Role of Historical Accidents in Contemporary Cities: The Case of Bangalore
Narendar Pani, The Economics Times, Bangalore

Leela, Dhyaana, Kriya and Artha quests and contestations in the indian theatre today
S. Raghunandana, Sambandha Theatre Company, Bangalore

a: Genetically Modified Food: Controversy and Uncertainty
P.K. Shetty, NIAS

Self-Introduction (3)

13 Dec, Wed m: Towards New Sociologies of India
A.R. Vasavi, NIAS

Wildlife in India: What Must Be Conserved, By Whom, For What and How?
M.D. Madhusudan, Nature Conservation Foundation, Mysore

a: Current Trends in Modern Astronomy
B.V. Sreekantan, NIAS

Self-Introduction (4)
14 Dec, Thu m:  **Panel: Reservations in Higher Education**  
Chair: V.K. Natraj, Mysore  
Speakers: Rekha Pappu, Secunderabad  
Padma M. Sarangapani, NIAS  

a:  Project (1)  
Project (2)  

15 Dec, Fri m:  **Three Problems in Cognitive Science**  
Rajesh Kasturirangan, NIAS  

CEDAW: Application for Ensuring State Obligations  
N. Shantha Mohan, NIAS  

a:  The Frontier of Chaos  
Prabhakar G. Vaidya, NIAS  

Project (3)  

16 Dec, Sat m:  **The Teacher as Practitioner of Human Relationships**  
and Facilitator of Change: Workshop  
Sudhakar S. Nayak, MAHE, Manipal  

**WEEK III**  

18 Dec, Mon m:  **Life Skills Education**  
Shekhar P. Seshadri, NIMHANS, Bangalore  

**Recent Trends in Antiviral Research**  
Saumitra Das, MCBL, IISC  

a:  **Navigating Knowledge**  
Timothy Poston, NIAS  

**Second Mohandas Moses Memorial Lecture: Actors, Acting and Action**  
Shri Gopalkrishna Gandhi, His Excellency the Governor of West Bengal  

19 Dec, Tue m:  **Decision Making in Complex Systems – Lessons from the Cuban Missile Crisis** (Discussion on the Case and Screening of Movie – Missiles of October)  
Lessons Learnt from the Case and the Movie  
Chair: S. Chandrashekar, NIAS  

Project (4)  

20 Dec, Wed m:  **Gender, Science and Technology**  
B.K. Anitha, NIAS  

**Producing the Global IT Professional: Management of Culture in the Indian Software Outsourcing Industry**  
**Screening of Film: Fun @ Sun**  
Carol Upadhya, NIAS  

a:  **Biology and Psychology of the Mind**  
Sanjeev Jain, NIMHANS, Bangalore  

Project (5)
21 Dec, Thu: Indian Astronomy – A Historical Perspective
S. Balachandra Rao, NIAS

Rural Employment Guarantee: What Does It Offer for Research
S.S. Meenakshisundaram, NIAS

a: Visit to ISRO Satellite Centre

22 Dec, Fri: The Lunar Mission
K. Kasturirangan, NIAS

Elite Institutions and Engineering Education: Promise, Performance and Potential
R. Ravi, IIT Madras

a: Demystification of Psychology
Malavika Kapur, NIAS

Research Institutions, Universities and Students Interaction
Panel: Natural Science Forum
Speakers:
S. Umapathy, IISC
Anindya Sinha, NIAS
Mythily Ramaswamy, TIFR, Bangalore
Jayanth Murthy, Indian Institute of Astrophysics, Bangalore

Panel: Humanities and Social Sciences Forum
Speakers:
V. Srinivas, CSCS, Bangalore
Sundar Sarukkai, NIAS
N. Shantha Mohan, NIAS
Shardool Thakur, Fergusson College, Pune

23 Dec, Sat: Hindustani Classical Music: A lecture-demonstration
Aditi Upadhya, Bangalore

WEEK IV

25 Dec, Mon: Feedback on the Course

26 Dec, Tue: Valedictory