SEVENTH NIAS COURSE

ON

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

Co-sponsored by the University Grants Commission, New Delhi
and
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

27 October to 16 November 2003

Course theme: FRONTIERS OF KNOWLEDGE IN THE NATURAL
SCIENCES,
SOCIAL SCIENCES, TECHNOLOGY AND THE ARTS

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>06.00 AM</td>
<td>Yoga</td>
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<tr>
<td>08.00 AM</td>
<td>Breakfast</td>
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<tr>
<td>09.00 AM</td>
<td>First lecture</td>
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<td>10.30 AM</td>
<td>Tea/Coffee</td>
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<tr>
<td>11.00 AM</td>
<td>Second lecture</td>
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<td>12.30 PM</td>
<td>Lunch</td>
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<td>01.30 PM</td>
<td>Third lecture</td>
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<td>03.00 PM</td>
<td>Tea/Coffee</td>
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<td>03.30 PM</td>
<td>Seminar by participants</td>
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<tr>
<td>07.00 PM</td>
<td>Evening programme</td>
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<tr>
<td>08.30 PM</td>
<td>Dinner</td>
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**INAUGURATION**

27 October, Monday, 9.30 AM

**Inaugural Lecture** by Dr Raja Ramanna

*Do We Really Need Universities?*

**EVENING PROGRAMME**

27 October, Monday  
Lecture: **Turning Natural History into Science**  
K Ullas Karanth, WCS-CWS, Bangalore

31 October, Friday  
Lecture: **Coffee Yatra: The World of Indian Coffees**  
Lakshmi Venkatachalam, Indian Coffee Board, Bangalore

13 November, Thursday  
**Farewell Function**

14 November, Friday  
Lecture: **Moksha and Martyrdom: Reflections on Ramana Maharshi and Mahatma Gandhi**  
Ramchandra Gandhi, Bangalore University

**VALEDICTORY**

15 November, Saturday, 9.30 AM

**Valedictory Address**

*A Discussion on the Course*: Course Participants and NIAS Faculty
WEEK I

27 Oct, Mon  m:  Inauguration
a:  Orientation to the Course and Meeting with the Faculty of NIAS

28 Oct, Tue  m:  Humanism and Power
Narendar Pani, Economic Times, Bangalore
Linkages between Higher Education and Elementary Education
Padma Sarangapani, NIAS
a:  The Role of Computation in Modern Science
Srikanth Sastry, JNCASR, Bangalore
A meeting with Dr Armaity Desai, former Chairperson, UGC
Self-Introduction

29 Oct, Wed  m:  Indian History in the 21st Century
S Settar, NIAS
Conserving Wildlife in a Crowded Country
M D Madhusudan, NIAS
a:  Turtle People – A Documentary Film
Surabhi Sharma, Bangalore
Self-Introduction

30 Oct, Thu  m:  The Strange Dynamics of Technology
R Narasimha, NIAS
The Mind of a Terrorist
R L Kapur, NIAS
a:  Tectonic Shift? Indian Geostrategy in the International System
Sridhar K Chari, NIAS
Self-Introduction

31 Oct, Fri  m:  Human Rights in Relation to Religious Freedom: An Islamic Perspective
Mumtaz Ali Khan, Bangalore
The Nanoworld Around Us
Giridhar U Kulkarni, JNCASR, Bangalore
a:  Is the Climate of the Earth Really Changing?
J Srinivasan, IISc, Bangalore
Self-Introduction

1 Nov, Sat  m:  The Teacher as Practitioner of Human Relationships
and Facilitator of Change: Workshop
Sudhakar S Nayak, MAHE, Manipal
WEEK II

3 Nov, Mon  m:  Viruses and Our Fight Against Them  
Soumitra Das, IISc, Bangalore

Consciousness in Humans and in Animals  
Anindya Sinha, NIAS

a:  Issues in Globalisation and the WTO  
Chiranjib Sen, IIMB, Bangalore

Self-Introduction

4 Nov, Tue  m:  A Brave New World: Modern Genetic Technologies  
Panel Discussion

Animal Experimentation  
Ravindranath Nayak, IISc, Bangalore

Human Cloning  
K P Gopinathan, IISc, Bangalore

Bioethical Issues  
V Ravi, NIMHANS, Bangalore

a:  Role of Tradition in Science and Literature  
M G Narasimhan, NIAS

Self-Introduction

5 Nov, Wed  m:  Frontiers of Non-linear Dynamics  
Prabhakar G Vaidya, NIAS

Contemporary Issues in Indian Social Anthropology  
A R Vasavi, NIAS

a:  Self-introduction

Brain and Behaviour: Interdependencies  
Shobini L Rao, NIMHANS, Bangalore

6 Nov, Thu  m:  Adolescent Mental Health  
Malavika Kapur, NIAS

Data Mining for College Teachers  
R Uma Shaanker, UAS, Bangalore

a:  Archaeo-metallurgy: An Emerging Interdisciplinary Frontier  
Sharada Srinivasan, NIAS

Project

7 Nov, Fri  m:  A Re-look at Gandhian Thinking  
Samir Banerjee, Bangalore

The Present Revolution in Astronomy  
G Srinivasan, RRI, Bangalore

a:  Role of Nuclear Weapons in International Politics  
Arvind Kumar, NIAS
Project

8 Nov, Sat  Visit to Nrityagram, Hesarghata, Bangalore
WEEK III

10 Nov, Mon m:  Philosophy and Common Sense
Sundar Sarukkai, NIAS

Reason and Mechanism for Cellular Compartmentalisation
Satyajit Mayor, NCBS, Bangalore

a:  Samvaada: Psychology of Dialoguing in Indian Thought
Sangeetha Menon, NIAS

Project

11 Nov, Tue m:  Information and Communications Technologies (ICTs) for Social Change
Panel Discussion

ICTs and Social Change: Possibilities and Prognosis
Anita Gurumurthy, IIMB, Bangalore

ICTs and Primary School Education
J Shankar, Azim Premji Foundation, Bangalore

The Dimension of Intellectual Property Rights
Sunil Abraham, Mahiti, Bangalore

a:  Security and Reliability on the Internet
Priti Shankar, IISc, Bangalore

Project

12 Nov, Wed m:  From Green Revolution to Gene Revolution: Frontiers in Indian Agriculture
P K Shetty, NIAS

Gender, Education and Occupation
B K Anitha, NIAS

a:  Contributions of Ancient Science to Today's Technology: Some Perspectives
H K Anasuya Devi, NIAS

Project

13 Nov, Thu m:  Ancient India’s Contribution to Astronomy
S Balachandra Rao, NIAS

Gender and Governance
N Shantha Mohan, NIAS

a:  Ritual Art Forms of the southern West Coast of India
Balan Nambiar, Bangalore

Project

14 Nov, Fri m:  Hindustani Classical Music: A lecture-demonstration
Aditi Upadhye, Bangalore

Project

15 Nov, Sat m: Valedictory