

# NIAS EVENTS AND ACTIVITES

**NATIONAL INSTITUTE OF ADVANCED STUDIES** INDIAN INSTITUTE OF SCIENCE CAMPUS, BANGALORE-12



NIAS was conceived and founded in 1988 by the late Mr. J. R. D. Tata, who sought to create an institution to conduct advanced multidisciplinary research. Housed in a picturesque green campus in Bangalore the Institute serves as a forum to bring together individuals from diverse intellectual backgrounds. The objective is to nurture a broad base of scholars, managers and leaders who would respond to the complex challenges that face contemporary India and global society, with insight, sensitivity, confidence and dedication.

### THE NIAS-IISC COLLABORATIVE PROGRAMME HELD ON 31 MAY 2017

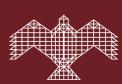
#### Coordinator: Prof Suba Chandran.

A collaborative research and teaching programme was officially initiated between NIAS and IISc when Prof Baldev Raj and Prof Anurag Kumar, the two Directors, signed an overarching Memorandum of Understanding (MoU) between the two institutions on 31 May 2017. Although there has always been a close link, both in terms of individual research collaborations and jointly taught teaching programmes, between the two institutions from early times, this MoU marks a new beginning to this valuable relationship.

Under the aegis of this Programme, NIAS and IISc would consider jointly fostering and developing ideas leading to research, teaching, training or outreach programmes that fall within the common interests of both institutions. Particular emphasis has been laid on joint-interest research programmes in terms of development of ideas and projects—particularly those with a significant component of policy-oriented research.



Moreover, it was agreed that the two institutions would provide academic supervision and even joint doctoral research guidance, if appropriate, for students involved in joint research programmes in areas that have already been identified by the two institutions as also expand such collaborations to other areas in which the two institutions have significant and complementary strengths, as, for example, water, energy, climate change, manufacturing, ecology and animal behaviour, or culture and heritage.



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NIAS NATURE CONNECT

Importantly, NIAS and IISc would provide doctoral, post-graduate and graduate students from both institutions opportunities to register for courses across the two institutions and receive credit for the same, as and when appropriate. In fact, we agreed that we would explore the possibility of initiating new courses at the different academic levels mentioned above in areas of mutual interest, potentially offered jointly by faculty drawn from both institutions, especially in the humanities and social sciences, history and philosophy of science, and in science studies.

Moreover, NIAS and IISc would consider organising inter-institution dialogues as well as discussion meetings, conferences and workshops in areas of mutual academic interest, with the participation of faculty, students and staff of both institutions.

Finally, it was agreed that this MoU would be an overarching one while certain research or teaching programmes and projects, which would be organised jointly, could also be subject to more focussed agreements, as, for example, the facility for cross-registering of courses by the students of the two institutions, which was also signed along with the overarching MoU.



### TALENT SEARCH WORKSHOP OF THE NIAS – MAIYA PRODIGY FELLOWSHIP PROGRAMME HELD DURING MAY 19 AND 20, 2017.

#### Gifted Education Team: Prof Anitha Kurup, Dr. Shalini Dixit and Mr. Ajay Chandra

The NIAS Gifted Education Programme, a national initiative and spearheaded by Dr. Anitha Kurup, Professor, Dean and Head of the Education Programme opens a new chapter with the collaboration with the NIAS-MAIYA PRODIGY FELLOWSHIP PROGRAMME. This is one of the unique initiatives in the country which has committed itself to train the next generation of global leaders, entrepreneurs, researchers, scientists and artists. In an attempt to increase its outreach, NIAS collaborated with collaborated with National College Basavangudi, lyengar Foundation and launched a talent search to identify excellence in the age group of 16-18 years and provide a platform for mentoring them. Consequently, 10 students were selected who were aspiring to excel in different fields of Arts, Humanities and Science. To provide these students with mentoring and future directions the NIAS-MAIYA PRODIGY initiated collaboration with mentors from areas of academia, science, technology, engineering and mathematics, arts, theatre, entertainment industry, business and industries.



Glimpses of the various interactions at the Talent search workshop organised at NIAS

The NIAS-MAIYA PRODIGY initiative strongly believes that Mentoring is a key component in developing the talent and is strongly committed to draw on distinguished mentors as part of its database. As part of the initiative, a two day mentoring workshop was scheduled on 19th and 20thMay, 2017 at the National Institute of Advanced Studies, IISc Campus, Bangalore. The workshop was driven by the motto of providing "Mentoring to accelerate individual youth achievement in promoting development of India's gifted young". The list of distinguished people who came to interact with student and be their mentors included- Dr. K Kasturirangan, Former IRSO Chairman; Dr. Baldev Raj, Director, NIAS; ; Dr. Anitha Kurup, Dean & Professor at National Institute of Advanced Studies; Dr. Rama Rao, President, The National Education Society of Karnataka; Dr. S.S. lyengar, Director SCIS, Florida International University, USA Dr. P Balaram, Former Director, IISC; Prof. Sundar Sarukkai, NIAS; Dr. K.J. Rao, Emeritus Professor, IISC; Dr. Vijeth Iyengar, Presidential Management Fellow at ACL, USA; Dr. Sadananda Maiya, Director at Maiyas beverages and foods private limited; Ms. Myrian Herlle, Academic Advisor, Florida International University, USA; Dr. K.R. Venugopal, Principal, UVCE; Dr. Jagadeesha Chinagudi, Indian Space Research Organisation; Dr. Srinivas Bhashyam, Dr. Dinesha KV, Indian Institute of Information Technology, Bangalore; Dr. N. Balakrishnan, Professor, IISC, SERC and Dr. Hosur, Adjunct Faculty, NIAS. The mentors delivered lectures about their areas of expertise including the frontier areas of research in their respective domains, the role of mentoring in their personal lives and drew examples of several leading scientists and social scientists who have built great careers in their lives. Students engaged with the experts leading to highly interactive sessions.





The selected students posing with the mentor group

The selected ten students also made presentations about their domains of interest which spread across a wide range, such as molecular biology, automobile technology, nanotechnology, cardiology, literature and Neuroscience to name a few. Some projects that these students have been working on are- using Non-Newtonian fluids to improve driving efficiency in cars, conservation of natural resources, and introducing a new DNA into pre-living organisms to extend life expectancy etc.

A well designed interactive session facilitated by Prof. Anitha Kurup led to the organic matching of the mentees to potential mentors. The process of mentoring and the broad guidelines was discussed among the mentors and mentees.

The Director of NIAS, Prof. Baldev Raj and Prof. Anitha Kurup wished the children every success and invited them to engage with professors at NIAS when they require guidance and support in pursuing their endeavours. The two-day workshop ended on a highly energetic and inspiring feedback from participants.

### NATIONAL CONSULTATION ON SOCIAL TECHNOLOGICAL SOLUTIONS FOR MAJOR WATER CHALLENGES FACING INDIA (MAY 12, 2017)

#### Coordinator: Prof N Shantha Mohan and Musarrat Parween

A National Consultation on "Evolving sustainable solutions for critical drinking water issues in India" was organised at the National Institute of Advanced Studies (NIAS) on May 12, 2017 in order to share and discuss the important findings of the pan-India project titled "Technological and Social Solutions to Major Drinking Water Challenges facing India" funded by the DST, Govt. of India. The consultation was followed by the project partners' meet on May13, 2017 for the consolidation of recommendations for dissemination of findings to the government, both central and states, policy makers, NGOs and other stakeholders.

This DST supported consultation provided a sustained discourse in addressing problems concerning drinking water issues in India and evolving solutions with a multidisciplinary approach and involvement of all stakeholders. The consultation provided a platform for interaction of the project partners and the NIAS water programme team with the members of the project advisory committee, the DST, experts and stakeholders.

This project is unique and innovative as it adopts a multidisciplinary perspectives and multi-stakeholder approach in addressing and seeking solutions to drinking water challenges that are local specific to diverse regions across the country. Prioritised issues have been selected by the seven sub-projects in various zones within the country, namely, the North, South, East, West, Northeast, and Jammu and Kashmir with the help of the Zonal Water Partnerships which were established by the NIAS-Water Programme.

The main objectives of the consultation on May 12, 2017 were:

- 1. Presentation of findings from each zone
- 2. Identification of probable solutions that could address each of the issues
- 3. Critical analysis of these solutions

4. Evolving socio-technological solutions that could be piloted and tested for their acceptability, viability and sustainability

**Prof. N. Shantha Mohan**, Professor and Anchor, NIAS water programme, and also the PI of the NIAS-DST project welcomed the eminent participants of the consultation and presented the objectives of the consultation. Emphasizing on the uniqueness of the project she elaborated that the methodology adopts a multidisciplinary perspective integrating science and technology, social sciences and the civil society approaches for various prioritized issues identified at the zonal level. The project is being funded by the DST, Govt. of India under the Water Technology Initiative program which promotes R&D activities aimed at providing safe drinking water at affordable cost and in adequate quantity using appropriate Science and Technology interventions evolved through indigenous efforts and taking into account the socio-economic context and civil society perspectives.



She listed out the objectives, gave a detailed account of the methodology adopted in the project and provided an outline of the sub-projects conducted by the six zones as well as by NIAS. The project covers a vast study area spread over 10 states across India included in the seven sub projects of the North, South, East, West, Northeast, and Jammu and Kashmir zones with the active engagement of the Zonal Water Partnerships and the NIAS Water Programme team. Studies conducted by each of the sub-project is carried out by a three member team comprising of a scientist, social scientist, and a civil society representative drawn from the Zonal Water Partnership.

The studies also aimed at exploring viable and sustainable solutions for the various challenges pertaining to drinking water problems with active involvement of the civil society at every stage of the study integrated right from the planning to the conclusion of the project.

**Prof. Baldev Ra**j, Director, NIAS and an eminent scientist, reckoned the fact that science alone has not yet been able to meet the needs of critical issues concerning water and that there is an exigent need to bring together scientists, social scientists, policy makers and the civil society in order to arrive at a practically applicable solution to such problems. Technological know-how alone is not sufficient to solve crucial problems pertaining to drinking water. The other sectors need to be engaged actively in coordination with technologists to make efficient and practicable use of technologies. Multidisciplinary studies of such kind are the way forward to solving the crisis in the water sector. This consultation is a great move in this direction as it reflects the diversity in the field of the participants who have joined hands in contributing through their expertise and suggestions for the common cause of water crisis. NIAS is one of the best platforms for such studies and dialogues. NIAS offers strong support and commitment to interdisciplinary research, informed debate and advocacy on issues of national importance.

**Dr. Sanjay Bajpa**i, Associate Head, Technology Mission Division, Department of Science and Technology, Govt. of India, with his active support, both financially and technically, has played a major role in accomplishment of the goals of this project. He specified that Department of Science and Technology supports multidisciplinary approaches in research, as real life problems can be solved only in a practicable and integrated manner. He advocated the need of integrating perspectives of the science and the social science on one hand and the amalgamation of technical/academic approaches with the civil society approaches on the other in order to arrive at solutions that are viable, acceptable and sustainable. The Department of Science and Technology is deeply committed to promote research of similar kind which integrates disciplines or perspectives and adopts multi-stakeholder approaches.



Special Address by **Shri. H. K. Patil**, *the Honorable Minister of Rural Development and Panchayat Raj, Govt. of Karnataka* underlined that multidisciplinary studies are imperative to solving the problems at massive levels. The amalgamation of disciplines is the need of the hour. Experts from various fields and researchers from reputed institutions do have the potential of providing solutions to grave issues such as that of drinking water.

The problems related with water are massive in Karnataka, especially in the rural regions. The state government is committed to providing safe and adequate water to all. There have been several initiatives taken by the state in order to meet the needs of drinking water in rural Karnataka. He expressed the exigency of water literacy in the current scenario. Participatory management systems are being evolved in Karnataka by involving the local panchayats, co-operatives & communities in setting up and managing the water purification and dispensing units. Models, such as the Gadag model whereby "Shuddha Neeru units" have been installed for providing safe drinking water at affordable prices are running successfully in the state. The state is also exploring the alternatives for water security with the help of uncharted natural resources such as the self-recharging water veins. However, rain water harvesting has been the best technology that should be extensively used.

He also said that this consultation is a great forum for interaction and sharing of knowledge among experts from diverse fields and institutions working together for the cause of water. It is therefore expected that solutions to the water problems can be shared among the states coupled with technology transfer. Technologies that are tested for their efficiencies and implemented successfully can also be replicated in similar conditions.

There was an active interactive session between the Hon. Minister Shri. H. K. Patil, and the distinguished participants of the consultation. Several issues that are crucial in the water sector were discussed. Problems and solutions concerning drinking water in various all across the country were discoursed.

The Hon. Minister assured the sharing and exchange of knowledge and technology across the states in this session. He was also appreciative of the initiatives taken by NIAS in addressing issues of national importance and seeking solutions with the integration of disciplines and stakes. He looked forward to the association of NIAS with the state government in relation to crucial water related issues, especially in the state of Karnataka.

Mr. Bilal Ahmad, South Asian Volunteers Association of Environmentalists, Srinagar, Prof. Ashok K. Ghosh, Mahavir Cancer Sansthan & Research Centre, Patna, and Dr. Nupur Bose, A. N. College, Patna, Prof. M. S. Rathore, Centre for Environment and Development Studies, Jaipur, Prof. K. S. Rajan, IIIT Hyderabad and member, Society for Participatory Development, Mr. L. Jelshyam Singh and Dr. Bijen Meitei, Wangjing Women and Girls Society, Manipur, Mr. S. K. Bordoloi and Mr. Simon Bordoloi, Rural Women Upliftment Association of Assam, Guwahati, Prof. Vijay. P. Paranjpye, Gomukh Environmental Trust for Sustainable Development, Pune and Dr. Musarrat Parween, NIAS Water Programme, represented the different zones of the country and also presented the findings of their study addressing the various water related issues.

Prof. V. S. Ramamurthy (Chairperson), NIAS and Prof. Mohan Kumar, IISc, highlighted the merits of each of the sub-project and overall, the methodology of this project. They emphasized on the importance of each of the studies. They also recommended and underlined on the need for the study conducted in each zone to be taken to the next level with the support of DST.

The consultation concluded with the vote of thanks which was proposed by Dr. Musarrat Parween.



### THE 5TH SUMMER WORKSHOP CONDUCTED BY NIAS GIFTED EDUCATION IN COLLABORATION WITH AGASTYA INTERNATIONAL FOUNDATION DURING MAY 9 - 11, 2017

#### Coordinator: Dr. Shalini Dixit and Ms. Ashwini

The NIAS Gifted Education Programme has 70 students enrolled in the programme. Summer and winter workshops is a part of the mentoring programme along with one to one mentoring where the Indian Institute of Science students are part of the mentors network. NIAS Gifted Education Programme organized its 5th Summer workshop "EXPLORING EXCELLENCE WITH NATURE, SCIENCE AND ART" in collaboration with Agastya International Foundation from 9th to 11th of May, 2017 at Agastya Creativity Campus, Kuppam, Andhra Pradesh.

The workshop aimed at providing enriched learning opportunities to the children with advanced learning abilities in the age group of 4 to 15 years. The theme of the workshop revolved around exploring scientific innovations, sparking insights through theatrics, expression in form of art/craft activities, and exploring career aspirations with the children.

#### **Diverse Sessions for Various Needs of Children**

During the three days' workshop, there were activities that gave an opportunity for the children to sharpen their skills and challenge their intellect. The workshop was attended by a pool of 18 children, parents and by NIAS Prodigy team.

#### Ecology Walk

A stroll amidst the lush landscapes of the vast campus, stormed with factual of thelocal flora and fauna.Each morning a new cup of knowledge to be instilled, the children were eager, curious, and they had numerous questions posed at the guide.



Exploring Science in Nature through Ecology Walks



Innovators in the Making

Career Development

#### Innovation Hub

A space to strike a chord of their own; here children got the opportunity to work in cross age groups and identify their areas of interest to bring up innovative ideas and constructive scientific models. Water supply issues, security system and better irrigation facilities were the explored areas in the activity.

This session explored the career aspirations of each child. They were asked to choose a profession and were advised on how to lay out their plans. One of the 15 year old participant proposed his work to find the solution to the unsolved prime number problems in mathematics.

Intra and Interpersonal Development through Forum Theatre

This activity used theatre as a medium to cognize the social issues in the society. Here children were directed to find social problems and their imagined solutions preparing them in the form of statues. The activity aimed to foster the existence of great responsibility with great talent.



Exploring Self and others with Forum Theatre



Nurturing Creativity

#### Media and Art Lab

Exploring the art and aesthetic development of children, a platform created for the creativity to blossom. Children were organized in random groups and given a topic to create their own story books.

Valedictory Address and Feedback Session

The workshop ended up with the valedictory address by Dr. Shalini Dixit. She put forth the importance of conducting such workshops with holistic activities, where children get to explore the personal and social aspects of life with their specific subject interests. The session invited feedback from parents which was positive as per their experience in the workshop. The feedback also involved some points about conducting subject specific workshops, like robotics in which children are not yet familiar with. The involvement of arts and aesthetics in the workshops with science and mathematics was cherished.

### BOOK RELEASE AND DISCUSSION OF PROF SISIR ROY'S "DECISION MAKING AND MODELLING IN COGNITIVE SCIENCE" HELD ON MAY 30, 2017

National Institute of Advanced Studies (NIAS) released Prof Sisir Roy's new book "Decision Making and Modelling in Cognitive Science" on 30 May 2017 at Lecture hall, NIAS. Prof Baldev Raj, Director, NIAS gave a welcome address followed by the initial remarks from Prof Sisir Roy. Prof Narendar Pani, NIAS, Prof Anindya Sinha, NIAS and Prof R.Srikanth, Poornaprajna Institute of Scientific Research gave a brief talk on the new release book and joined the panel discussion followed with the question and answer session.

The book discusses the paradigm of quantum ontology as an appropriate model for measuring cognitive processes. It clearly shows the inadequacy of the application of classical probability theory in modelling the human cognitive domain. The chapters investigate the context dependence and neuronal basis of cognition in a coherent manner. According to this framework, epistemological issues related to decision making and state of mind are seen to be similar to issues related to equanimity and neutral mind, as discussed in Buddhist perspective.



# **NIAS PUBLIC LECTURES**

#### **PUBLIC LECTURES**

Lt Gen Prakash Menon (Retd) Adjunct Professor, NIAS L'Affaire Human Shield – What Does It Signify? May 30, 2017

#### WEDNESDAY DISCUSSION MEETINGS

Prof Malavika Kapur Visiting Professor, NIAS Whose Right To Education (RTE) Is It Any Way?" May 31, 2017 Dr Shoibal Chakravarty Assistant Professor, NIAS India's Demographic Transition May 24, 2017

Mr Posina Venkata Rayudu Research Fellow, NIAS Neuronal Adaptations to Environmental Change May 17, 2017

Dr VV Binoy Assistant Professor, NIAS Forbidden Knowledge: Understanding Martial Arts May 3, 2017



Dr VV Binoy



#### Lt Gen Prakash Menon (Retd)



Dr Shoibal Chakravarty



Mr. Posina Venkata Rayudu



Prof Malavika Kapur

### **NIAS OUTREACH**

#### **NIAS Faculty Outreach**

#### **Prof Malvika Kapur**

Delivered a lecture at the Bangalore International Centre on the topic "Child care in the Indian Indigenous Health systems' on May 5th at the TERI complex, Domlur, Bangalore.

#### Dr Mayilvaganan

Presented a paper titled "Understanding India's Maritime Strategy and Naval Aspirations in the Indian Ocean," at the International Conference on India and Indian Ocean, organised by the Centre for Indian Ocean Studies, Osmania University, Hyderabad, May 8, 2017.

#### Dr. Hippu Salk Kristle Nathan

Seminar Talk– "Rural lighting through Solar PV – A supply-side analysis of home lighting systems in Karnataka, India", Organized by Environment and Sustainability Institute, University of Exeter, Exeter, UK, May 19, 2017.

Seminar Talk – "On human development index (HDI) - the old, the new, & the elegant", Organized by Department of Economics and Department of Social and Policy Science, University of Bath, Bath, UK, May 17, 2017.

Seminar Talk – "Dying in Silence: A Study on Mortality-Morbidity Gap in India", (a paper with Dr. Tulika Tripathi) Organized by Faculty of Education and Humanities, University of Northampton, Northampton, UK, May 15, 2017.

Meeting for Research Collaborations – A meeting with Dr. Anupama Sen of Oxford Institute for Energy Studies for research collaboration in Energy research in India and South Asia, 12th May 2017.

India Observatory Seminar – "Energy Poverty: Concepts, Measurement and Impacts on Quality of life", Organized by India Observatory, May 10, 2017 (http://sticerd.lse.ac.uk/\_new/events/IO\_Events.asp).

Seminar Talk – "Energy access and energy poverty: Some Concepts and insights on measurement", Organized by Center of Development Studies, University of Cambridge, UK, May 02, 2017.

### NIAS OUTREACH

#### **Prof Baldev Raj**

Attended Book Release Function "Decision Making and Modelling in Cognitive Science by Sisir Roy", 30 May 2017

Attended as a Member, 31st Meeting of the Expert Advisory Committee, ONGC Energy Centre, 26 May 2017

Attend as Member, Council of Management, Indian Statistical Institute, Kolkata at Delhi office, 25th May 2017

Chaired, Review Committee of CSIR Projects under Energy, Environment and Advanced Materials at CSIR Science Centre, Delhi, 24 May 2017

Attended as Member, Brainstorming meeting on "Emerging scenario for Nano-Electronics" under Chairmanship of Dr R Chidambaram, PSA to Gol to take into view, the opinion of experts and stakeholders for the next phase of R & D efforts, including the maintenance of the excellence already achieved, industry interaction and develop a road-map in this important field, 23 May 2017

Talent Search Program Workshop: Mentoring to Accelerate Individual Youth Achievement in Promoting Development of India's Gifted Young. Organized by NIAS & Maiya Pradigy, 19th May 2017 at NIAS

Attended as Member; Meeting of the Outcome Review of National Laboratories Scheme of CSIR at CSIR Science Centre, New Delhi, 18 May 2017

Attended as Member; Council of Management meeting of Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) 16 May 2017

Chaired Director Selection Committee meeting of Academy of Scientific and Innovative Research (AcSIR), New Delhi, 15 May 2017

Valedictory Address at the National Welding Meet & Weld Tech Expo-2017 at MS Ramaiah University of Applied Sciences, Bangalore organized by The Indian Institute of Welding-Bangalore Branch on 13th May 2017

First Consultation Meeting on Archaeoastronomy, National Institute of Advanced Studies, Bangalore, 12 May 2017

Chaired meeting of the "Indigenization of the various kinds of Steels being used in the Power Sector" organized by Office of the Principal Scientific Adviser to the Government of India at NIAS, 11 May 2017

# NIAS OUTREACH

Attended as a Member; Review of International Division Schemes of Department of Science and Technology at JNCASR, 8 May 2017

NIAS-DST National consultation meeting of "Social Technological Solutions for Major Water Challenges Facing India" at NIAS, 8th May 2017

Chaired NIAS Annual Academic Review Meeting, 4-5 May 2017

Attended as Member; Second meeting of the Over-Arching Committee of R&D project for Development of Advanced Ultra Super-Critical (AUSC) Technology for Thermal Power Plants in India under the Chairmanship of the Principal Scientific Adviser, Government of India, Delhi, 3 May 2017

Round table meeting of "Role of Space in India's Foreign Policy", organized by NIAS, Indian Research Space Organisation (ISRO) and the Ministry of External Affairs (MEA) at NIAS, 1st May 2017

#### Prof Srinivasa Ranganathan

Invited as a Guest of honour at the Expo on National Technology Day at the 5th Bharatiya Vigyan Sammelan and Expo (BVS), a flagship program of Vijnana Bharati 11 May 2017.

Delivered a plenary lecture on Civilization In India- the Material Dimension and also arranged a parallel session with several renowned scholars on the confluence of traditional and modern metallurgical sciences at the 5th Bharatiya Vigyan Sammelan and Expo (BVS), a flagship program of Vijnana Bharati was organised in association with Government of Maharashtra and Deccan Education society at Fergusson College, Pune, 12 May 2017

#### Prof Anindya Sinha

Animal Behavioural Ecology, Three-Credit Teaching and Field Course Postgraduate Program in Wildlife Biology and Conservation at National Centre for Biological Sciences, Bengaluru, February–May 2017

Invited Lecture and Discussions on Primate Worlds: From Complex Communities to Simple Minds with High School Student Awardees at Jagadis Bose National Science Talent Search, Kolkata, May 6, 2017

Invited Member at Institutional Ethics Committee, Institute of Public Health, Bengaluru, May 2017 onwards

Joint Coordinator at Doctoral Coursework, Nature Conservation Foundation, Mysuru, May 2017 onwards

# NIAS NATURE CONNECT



Pictures captured by : Bharath Chandra BK