

DST-INSPIRE INTERNSHIP SCIENCE CAMP - 2012

In association with



Department of Science & Technology
Govt. of India



Jagadis Bose National Science Talent Search,
Govt. of West Bengal

Science Camp Entitled:

“Learning, Not Education”

October 08 – 12, 2012

At JB Centre of Excellence for Student – Scientists



Jagadis Bose National Science Talent Search,

1300, Rajdanga Main Road, Kasba, Kolkata – 700 107

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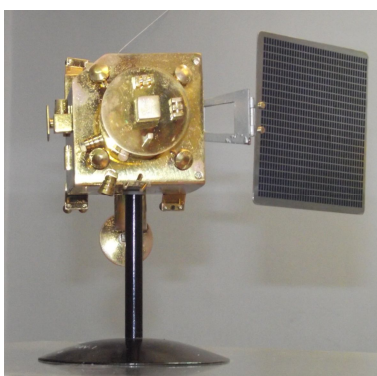
E-mail: jbnsts@gmail.com / jbnsts@vsnl.com; Website : <http://www.jbnsts.org>

About JBNSTS

Jagadis Bose National Science Talent Search (JBNSTS), Kolkata was conceptualized in 1958 by visionaries such as Dr. B C Roy, Sir J J Ghandy and others to commemorate the Birth Centenary Celebration of India's first modern scientist, Acharya J C Bose. The program was inaugurated by Pandit Jawaharlal Nehru. JBNSTS is an autonomous institute promoted by the Department of Higher Education, Government of West Bengal. It is administered by a Governing Body with representatives from the State Government, academia and industry. Since 1961, JBNSTS is awarding the prestigious Jagadis Bose Scholarships to selected group of undergraduate students of science, engineering and medicine.



In the last five decades, JBNSTS has grown to become a premiere institute of non-formal science education in the eastern and northeastern States of India with the objective towards pursuit of excellence through motivation, identification and nurture of young talented science students. It helps students to realize the importance of excellence in the scientific world and try to cultivate this in their own lives as students of science. JBNSTS also encourages students towards the learning of basic sciences and inculcates scientific spirit in the minds of young high school and undergraduate students. Focus has been given on unconventional and dynamic methods of non-formal accelerated learning through "out-of-class" activities, which have led to the recognition of intellectually sensitive and inquisitive minds. Since 2004, JBNSTS has launched an innovative middle school science Teachers Training Program which has brought into its ambit motivated teachers from the districts of West Bengal. JBNSTS has developed science kits and distributed to the teachers for demonstrating scientific principles to the middle school students in the classroom. The financial support for most of the activities of JBNSTS is provided by the Department of Higher Education & Department of Science & Technology, Government of West Bengal. In addition, Council of Scientific & Industrial Research (CSIR), Department of Science & Technology (DST), Government of India & Industries also collaborates with JBNSTS activities.



About DST-INSPIRE Program

Innovation in Science Pursuit for Inspired REsearch (INSPIRE) is an innovative programme being implemented by the Department of Science and Technology (DST), Govt. of India. The basic objective of INSPIRE is to communicate to the youth of the country the excitement of creative pursuit of science, attract talent to the study of science at an early age and thus build the required critical human resource pool for strengthening and expanding the Science & Technology System and Research & Development base. Under the INSPIRE project 'Scheme for Early Attraction of Talents for Science' (SEATS) is a program to inspire talented Science students (*top 1% performers in class-X board examination*) into basic science streams.



A striking feature of the programme is that it does not believe in conducting competitive exams for identification of talent at any level. It believes in and relies on the efficacy of the existing educational structure for identification of talent and builds on opportunities that can be derived within the systems.

Science camps are a great way for children to explore the principles and methods of scientific research and strive to get young people interested in science at an early age. They are based on concepts of facilitated self-learning, holistic education, group activities, exchange of cross-cultural ideas, motivation towards independent thought and action and forming life-long friendships with similar minded people and established scientists. Leadership, passion and appreciation of the nature around us are invaluable characteristics for future scientists, and the Science Camp activities strive to encourage these traits.



Organizing Committee

Academic Committee:

Prof. (Dr.) Papiya Nandy, Hony. Director, JBNSTS
Dr. Paromita Roy, Dy. Director, JBNSTS
Dr. Abhijit Kar, Scientific Officer, JBNSTS
Dr. Smarajit Manna, Student Advisor, JBNSTS

Camp Coordinators:

Shri Joydip Das, Asst. Director (Admin), JBNSTS
Ms. Sucharita Kundu
Shri Prasenjit Chakraborty

Mentors

Dr. Kankan Bhattacharya
Director, IACS, Kolkata

Dr. D.P. Duari
Director, Research & Academics, M.P Birla Inst. of
Fundamental Research, Kolkata

Dr. Anjan Ghosh
Vice President,
Total Quality Management,
Exide Industries Ltd., Kolkata

Dr. Subhrangsu Aditya
School of Bio Science & Engineering and School of
Cognitive Science
Jadavpur University, Kolkata

Dr. Pinakpani Pal
Dept. of Electronics and Communication Sciences Unit
Indian Statistical Institute, Kolkata

Dr. Souvik Bhattacharyya
Vice Chancellor, Jadavpur University

Dr. Barun Chatterjee
Dept. of Physics, Bose Institute, Kolkata

Mr. Rupak Kr. Das
Education Officer, Science City

Dr. Sukhen Das
Dept. of Physics, Jadavpur University



Mr. T. K. Sengupta
Education Officer
BITM

Dr. Subhamoy Moitra
Applied Statistics Unit
Indian Statistical Institute, Kolkata

Dr. Hemanta Kumar Majumder
Infectious Disease and Immunology Division, Indian
Institute of Chemical Biology
Kolkata

Dr. Abhijit Kar
Scientific Officer, JBNSTS

Dr. Smarajit Manna
Student Advisor, JBNSTS

Dr. Soumen Kr. Roy
Professor, Department of Physics
Jadavpur University, Kolkata

Dr. Tapan Kr. Ghosal
Dept. of Electrical Engineering,
Jadavpur University, Kolkata

Dr. Paromita Roy
Deputy Director, Bose Institute,
Kolkata

Name of the participating schools:

- Chakdaha Basantakumari Balika Vidyapith, Nadia
- Chakdah Ramlal Academy, Nadia
- Krishnanagar Govt. Girls' High School, Nadia
- Bethuadahari J.C.M. High School, Nadia
- Krishnanagar Holy Family Girls' High School, Nadia
- Kabi Bijoylal Higher Secondary School, Nadia



- Katwa D. D. C. Girls' High School, Burdwan
- Katwa Kashiramdas Institution, Burdwan
- Katwa Bharati Bhaban, Burdwan
- Barasat P.C.S. Govt. High School, 24 Pgs. (N)
- R.K. Vivekananda Mission Vidyabhavan, 24 Pgs. (N)
- Belur High School, Howrah

CAMP RULES

Welcome to the Science Camp “Learning, Not Education”

Here you will have a unique experience of learning science through active interaction with great scientists and be encouraged to share your ideas with others. No test/grade – only learning science in a different way.

Please note the following points carefully:

1. The camp hours are from **09:30 a.m. to 7:30 p.m.** Evening sessions are not mandatory for non-residential candidates. In order to get Participation Certificate, you are required to attend all the sessions. You are to come in your school uniform.
2. You are required to submit an attested copy of your Xth Standard Board Examination Mark Sheet, held in 2012, during the morning registration on **9th October, 2012** at registration desk.
3. You are required to fill up the STUDENT'S INFORMATION SHEET & FEED BACK SHEET and submit it on **12th October, 2012.**
4. **TRAVEL BILL :**
Residential Students & Accompanying Teachers: Travel bills (bus, auto and / or train fare only) are to be submitted along with relevant documents (tickets) on **8th October, 2012** by the escorting teachers. Your reimbursement will be made on the **same day**. In case, any assistance / clarification are needed, you may contact our accounts section (Mrs. Swapna Dey : 2442 8270).
Non-residential Students: Travel bills (bus, auto and / or train fare only) are to be submitted on **10th October, 2012** during morning registration at registration desk. Your reimbursement will be made on **12th October, 2012 between 01.30 p.m. to 02.00 p.m.**
5. **BOOKGRANT : You will get a bookgrant of Rs. 1,500/-. For that you have to purchase books and submit the bills at JBNSTS office : -**
Residential Students: Book bill(s), authorized by respective Headmaster/ Headmistress, are to be submitted on **11th October, 2012** during morning registration at registration desk. Your reimbursement will be made on **the same day**.
Non-residential Students: Book bill(s), authorized by respective Headmaster/ Headmistress, are to be submitted on **11th October, 2012** during morning registration at registration desk. Your reimbursement will be made on **12th October, 2012 between 01.30 p.m. to 02.00 p.m.**
6. A very interesting contest awaits for you on **12th October, 2012.** On that day each group will be provided with some drinking straws, cello tape, threads, sheets of Newspaper and TWO eggs. The challenge is to construct an arrangement with these materials and put one whole raw egg in it in such a way that when the whole thing is dropped from a certain height and hits the concrete ground, the EGG WILL NOT BREAK! And oh, yes ! There will be a prize for the best contraption!
7. You will not be given any home work, but you are expected to interact freely with the experts, your group members and other groups.

On the last day i.e. **12th October, 2012** you will receive the Participation Certificate.

BRIEF INTRODUCTION TO THE EXPERTS

DR. PAPIYA NANDY

Dr. Papiya Nandy received her Masters degrees in Physics from University of Calcutta and University of California at Santa Barbara and Ph.D. on Liquid Crystals from Kent State University, USA. Her post-doctoral work was in Experimental Biophysics from Max Planck Institute, Gottingen, Germany. Later she was Associate Professor of Physics in University of Ulm, Germany. She joined Physics department in Jadavpur University and besides teaching for more than 30 years in the Science and Engineering faculties, she was and still is in charge of several research projects. Her field of research encompasses membrane biophysics, numerical analysis of DNA and protein sequences and application of Nanomaterials in ceramics and bio systems. She has more than hundred research publications in peer reviewed journals and 3 patent awards. She has guided several Ph.D. and Masters Thesis. She is currently the Emeritus Fellow of Jadavpur University and the Hony. Director of JBNSTS, of which she is a scholar from the first batch in 1960. Here her objective is to make JBNSTS a vibrant and dynamic institute and to motivate, identify and nurture young talented science students and establish the base of Scientific enquiry and culture of tomorrow.

DR. KANKAN BHATTARCHARYA

Dr. Kankan Bhattacharyya, is presently the Director at Indian Association for the Cultivation of Science and Chair Professor of the same institute. He did his Ph.D. from IACS in 1984 and went for Post-doc at Notre Dame University, USA and Columbia University, USA. Prof. Bhattacharyya joined IACS as a faculty and occupied in several positions like Senior Lecturer, Reader, Professor and Senior Professor. His current research interest includes Solvation dynamics, Femtosecond Up-conversion, Picosecond single photon counting, Proton/Electron Transfer, Confocal microscope and fluorescence life time imaging, etc.

DR. DEBIPRASAD DUARI

Dr. D P Duari is presently the Director, Research & Academic of M. P. Birla Institute of Fundamental Research, M. P. Birla Planetarium, Kolkata and Honorary Faculty, Physics Department, Presidency University. He did his B.Sc. & M.Sc. in Physics from Jadavpur University and Ph.D. from Inter University Centre for Astronomy & Astrophysics, Pune. He was a Post Doctoral Fellow of Tata Institute of Fundamental Research. He was associated with a number of distinguished academic institutions including Institute for Advanced Studies, Iran, University of Cambridge, U. K., and Manchester Institute of Science & Technology, U. K. He is a fellow of Royal Astronomical Society and a member of International Astronomical Union.

DR. ANJAN GHOSH

Dr. Anjan Ghosh, a JBNSTS Scholar of 1970, got the Senior Cambridge degree from Calcutta Boys' School in 1969. He did his B.Sc. with Physics honors and B.Tech. in Instrumentation and Electronics Engineering from Jadavpur University and M.B.A. from Indian Institute of Social Welfare and Business Management. Then he turned into science journalism. He was the author of the science column of the Sunday Miscellany supplement of The Statesman. He is presently the Vice President, Total Quality Management, Exide Industries Limited, Kolkata.

DR. SUBHRANGSU ADITYA

Subhrangsu Aditya, M.B.B.S., senior JBNSTS scholar (1995) is currently pursuing his research at School of Bio Science & Engineering, Jadavpur University. Besides, he is associated with School of Cognitive Science (formerly Center of Cognitive Science), Jadavpur University as a research assistant and guest faculty for the M. Phil. course in Cognitive Science. He is also associated with various workshops, seminars and other activities conducted by Center for Counselling and Studies in Self-Development Skills, Jadavpur University (CCSSS-JU). He is an associate member of SAMIKSHANI Centre for Psychoanalytical Studies and Mental Therapy (since 2009). He has publications in various international journals (such as *International Journal of Artificial Intelligence and Soft Computing*, 2012; *International Journal of Computational Vision and Robotics*, 2009) and conference proceedings (such as *2010 IEEE Students' Technology Symposium*; *International Joint Conference on Artificial Intelligence: IJCAI – 07*, 2007; *International Workshop on Spatial Issues in Language and Vision: SLIV - 05*, 2005) and book chapters (such as "Ethical Issues in Mental Health Services from Consumers' Perspective" published in the book *Ethical Issues in Mental Health Services*, 2009; "Determinants of Perception: A Neurophysiological Perspective" published in the book *Determinants of Perception*, 2009). He participated as a resource person in the UGC Sponsored Refresher Course "Art and Science of Mechatronics and its Application in Robotics" held at Electrical Engineering Department, Jadavpur University. He was invited to present a paper entitled "Protecting Children in Cyberspace" presented at the *Institute of Engineers (India)*, West Bengal State Centre, on the *World Telecommunication and Information Society Day*, May 17, 2009. His current areas of interest are Cognitive Neuroscience, Artificial Intelligence, Bio signal processing, Psychological Counselling, Stress Management, Cyber-relationship, Jealousy etc.

DR. PINAKPANI PAL

Dr. Pinakpani Pal graduated from Calcutta University, pursued Masters Degree at South Gujarat University and obtained his PhD from Jadavpur University. Before joining Indian Statistical Institute (ISI) in 1999 as a faculty member, he was in the software industry for few years. Presently he is an Associate Professor at ISI, Kolkata. His research interest is mainly application in various fields - Image Processing, Pattern Recognition, Simulation of Clinical Trials, Cryptography etc. He teaches various programming languages, Database and Software Engineering in MTech and MStat courses at ISI, Kolkata. He also acts as an external expert/examiner and Guest Faculty at various Universities and Govt. Organizations.

DR. SOUVIK BHATTACHARYYA

Dr. Bhattacharyya is presently the Vice Chancellor of Jadavpur University. He completed his MS and Ph.D from University of Connecticut and Texas. Prior to his present role, he was in mechanical engineering department in Indian Institute of Technology, Kharagpur. He has spent his formative years (1976 to 1981) as a student of the Jadavpur University before moving to the USA for further studies. His research area includes Thermal science, Natural refrigerant based transcritical heating cooling systems, Thermodynamic optimization, Natural circulation loops (NCLs) & Energy Engineering. He was also the Fellow of Indian National Academy of Engg (2006). He has several research publications in national and international journals.

DR. BARUN CHATTERJEE

Dr. Barun Kumar Chatterjee is presently the Senior Professor at Dept. of Physics, Bose Institute, Kolkata. He did his B.Sc. from Presidency College and M. Sc from Calcutta University. He completed his MS & Ph.D from University of Pittsburgh. His research area includes: Superheated drops and superheated drop detector & Ejection of stylet from jellyfish nematocysts. He is the Member of the Indian Physics Association, Indian Physical Society, Indian Science News Association and the Kalpana Chawla Centre for Space and Nano Sciences.

MR. RUPAK KUMAR DAS

Mr. Das is presently associated with Science City, Kolkata as Education Officer.

DR. SUKHEN DAS

Dr. Sukhen Das is presently Reader, Department of Physics Jadavpur University, Kolkata. He did his B.Sc, M.Sc, MBA and Ph.D from Jadavpur University. He visited several places such as University of Virginia, USA, North Virginia Community College, USA and New York University, USA as visiting professor. In his distinguished academic career, Dr. Das occupied the positions Scientist-B & Scientist-C at Central Glass & Ceramic Research Institute (CGCRI), Kolkata. His research interest includes the fields: Nano science, X-ray Crystallography, Glass and Ceramic material development and characterization and Biophysics (Biological membrane). Dr. Das has 45 publications in national and International Journal and Seven patents (US and Indian).

MR. T.K. SENGUPTA

Mr. Sengupta is presently associated with Birla Industrial and Technological Museum, Kolkata as Education Officer.

DR. SUHBAMOY MOITRA

Subhamoy Maitra received his Bachelor of Electronics and Telecommunication Engineering degree in the year 1992 from Jadavpur University, Calcutta and Master of Technology in Computer Science in the year 1996 from Indian Statistical Institute, Calcutta. He completed Ph.D from Indian Statistical Institute in 2001. Currently he is a Professor at Indian Statistical Institute. His research interests are in Cryptology and Security.

DR. HEMANTA KR. MAJUMDER

Dr. Hemanta K. Majumder, Scientist G (Director Grade Scientist), is presently the Head of Infectious Diseases & Immunology Division, IICB, Kolkata. He did his Ph.D from Calcutta University in 1975. His current research interests include Biochemistry of DNA Topoisomerases of *Leishmania donovani*, Cloning and characterization of the genes of Type I and Type II DNA Topoisomerases of *L. donovani*, Functional domain organization of the genes of DNA Topoisomerases, Programmed cell death in unicellular parasite *L. donovani*, Development of therapeutic agents targeted against DNA Topoisomerases and Molecular Biology of Kinetoplast DNA.

DR. ABHIJIT KAR

Dr. Abhijit Kar received his PhD (Science-Chemistry & Material Science) from Jadavpur University. Dr. Kar carried out his post doctoral research in different parts of the world e.g., South Korea, Switzerland etc. He has also worked as visiting scientist at Ruhr Universität, Germany. His current research interest includes application of nanotechnology for micro-electronics, thin film and nanomultilayer structure for advanced materials. He has expertise on different materials characterization using electron microscopic techniques and simulating materials property. He has published 33 research papers in SCI Journals and authoring book chapter on Transmission Electron Microscopy. He serves as reviewer of many International Peer Reviewed Journals. He is also the recipient of National Scholarship He has been honoured as most distinguished person by Marquis Who's Who in the world, USA-2008. He is currently working as Scientific Officer of JBNSTS and looking after different academic and research activities and laboratory set up of JBNSTS.

DR. SMARAJIT MANNA

Dr. Smarajit Manna is currently the Student adviser, JBNSTS. He got his Ph. D degree from Jadavpur University. His area of research interest is biophysics more precisely the dynamics of cell membranes including ion channels. He has six research publications in international journals. He loves to pursue research as well as to interact with the students.

DR. SOUMEN KUMAR ROY

Dr. Soumen Kumar Roy is presently the Professor at Physics Department at Jadavpur University.

DR. TAPAN KUMAR GHOSHAL

Dr. Ghoshal is presently the Honorary Emeritus Professor at Dept. of Electrical Engineering Jadavpur University. He has completed his B.E.E and M.E.E. from Jadavpur University in 1966 and Ph.D. in Flight Engineering and Flight Control from Cranfield, U.K. in 1976. He has vast experience in Teaching and Research, consultancy related to missile and aircraft control systems and industrial employment. He was also the faculty and head of the Electrical Engineering department, Jadavpur University from 1967. Dr. Ghoshal has received several awards and honours such as Fellow, Indian National Academy of Engineers, 2003, Academic Excellence Award of Defence Research & Development Organisation 1998 for contribution in the Guidance of PRITHVI & NAG Missiles, Corps of Engineers Medal 1998 and Certificate of Merit in 1980 & 1996 awarded by IE (India) for research Publication, Tata Rao Prize 2003, Commonwealth Fellowship in UK (1973-1976), & Jagadish Bose National Science Talent Search Scholarship in 1961. He has several research publications in national and international journals. His research interest includes the fields : Control Systems, Aerospace, Real Time Software Engineering, Software QA, IV&V and Safety, Education Technology etc. As Principal, Joint Principal and Co-Investigators, he has carried out successfully more than 20 research projects worth about Rs. 60 Million, sponsored by different agencies, including DRDO, Ministry of Defence. He has guided 8 Ph.D. (Engg.) Thesis and 40 Masters Degree Theses. At present 4 Ph. D (Engg) work are in progress. He is also the Member of System Society of India, Fellow, Astronautical Society of India.

DR. PAROMITA ROY

Dr. Paromita Roy did her Bachelors in Psychology (with special paper in family counseling), and Masters in Industrial Psychology and Organizational Behavior from Delhi University. She received her PhD from Delhi University in Clinical Psychology and worked in the field of cognitive deficits in schizophrenia from Delhi University. Dr. Roy has extensive field experience in the area of clinical psychology. Her expertise is in educational psychology, soft skill training, human resource development, curriculum planning, strategy development, pedagogy, teacher training and student counseling. She has been with JBNSTS since 1993 and presently is the Deputy Director of the same institute. Her focus is on educational paradigms with a socio-holistic view. With her long experience with creative science students and teachers, she has been instrumental in designing tailor made science enrichment programs.

Day to Day Program

Day 1 : Monday, October 8, 2012

10:00 a.m. – 11:00 a.m.	Registration
11:00 a.m. – 11:30 a.m.	Orientation
11:30 a.m. – 12:00 noon	Welcome Address by the Director, JBNSTS
12:00 noon – 01:00 p.m.	Inaugural Lecture Dr. Kankan Bhattacharya , Director, Indian Association for the Cultivation of Science and Chair Professor (on lien), Department of Physical Chemistry, Indian Association for the Cultivation of Science, Kolkata
01:00 p.m. – 02:00 p.m.	Lunch & Interaction
02:00 p.m. – 03:30 p.m.	“Astronomy and Astrophysics : Concepts and Challenges” Dr. D. P. Duari , Director, Research & Academics, M.P Birla Inst. of Fundamental Research, Kolkata, West Bengal
03:30 p.m. – 05:00 p.m.	“Teamwork” Dr. Anjan Ghosh , Vice President, Total Quality Management, Exide Industries Ltd., Kolkata

Day 2 : Tuesday, October 9, 2012

09:30 a.m. – 10:00 a.m.	Registration (Submission of attested copy of Xth Standard Board Examination Mark Sheet)
10:00 a.m. – 11.30 a.m.	“How to choose your career?” Dr. Subhrangsu Aditya , School of Bio Science & Engineering and School of Cognitive Science, Jadavpur University, Kolkata
11:30 a.m. – 12:30 p.m.	“Can a computer recognise patterns?” Dr. Pinakpani Pal , Electronics and Communications Unit, ISI, Kolkata
12:30 p.m. – 01:30 p.m.	Lunch & Interaction
02.00 p.m. – 03:00 p.m.	“Motivational Lecture” Dr. Souvik Bhattacharyya , Vice Chancellor, Jadavpur University
03:00 p.m. – 05:00 p.m.	“Amazing Liquids” Dr. Barun Chatterjee , Dept. of Physics, Bose Institute, Kolkata

Day 3 : Wednesday, October 10, 2012

09:30 a.m. – 10:00 a.m.	Registration
10:00 a.m. – 01:00 p.m.	“How to Use Common Hand Tools at JBNSTS Laboratory” Mr. Rupak Kr. Das , Education Officer, Science City & Dr. Sukhen Das , Dept. of Physics, Jadavpur University, Kolkata
01:00 p.m. – 02:00 p.m.	Lunch & Interaction
02:00 p.m. – 06:00 p.m.	“Workshop on Chemistry and Mathematics at JBNSTS Laboratory” Mr. T. K. Sengupta , Education Officer, BITM
07:00 p.m. – 07:30 p.m.	CD Show

Day 4 : Thursday, October 11, 2012

09:30 a.m. – 10:00 a.m.	Registration (Submission of travel bill for NR students & Book bill for all)
10:00 a.m. – 11:30 a.m.	“Quantum Information” Dr. Subhamoy Moitra , Applied Statistics Unit, ISI, Kolkata
11:30 a.m. – 01:00 p.m.	“Great Discoveries in Biological Sciences” Dr. Hemanta Kr Majumder , Infectious Disease and Immunology Division, IICB, Kolkata
01:00 p.m. – 02:00 p.m.	Lunch & Interaction
02:00 p.m. – 06:00 p.m.	“Spectroscopy, Microscopy, Properties of Fundamental Elements” – Hands on activity at JBNSTS Laboratory Dr. Abhijit Kar & Dr. Smarajit Manna

Day 5 : Friday, October 12, 2012

09:30 a.m. – 10:00 a.m.	Registration
10:00 a.m. – 11:30 a.m.	“Events that led to the birth of quantum mechanics” Dr. Soumen Kumar Roy , Department of Physics, Jadavpur University, Kolkata
11:30 a.m. – 12:30 p.m.	Valedictory Lecture Dr. Tapan Kr. Ghosal , Dept. of Electrical Engineering, Jadavpur University, Kolkata
12:30 p.m. – 01:00 p.m.	Distribution of Certificates
01:00 p.m. – 02:00 p.m.	Lunch & Interaction (Submission of Information cum Feedback sheet, reimbursement of Travel Bill)
02.00 p.m. – 05:00 p.m.	EGG Dropping Contest for participating students & Parent Counseling – by Dr. Paromita Roy , Dy Director, JBNSTS

A DST-JBNSTS Science Camp

“Learning, Not Education ”
(October 8 -12, 2012) JB Centre of Excellence for Student-Scientists,
1300, Rajdanga Main Road, Kasba, Kolkata 700 107

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Student's information sheet

Name of the student (in block letters):

Permanent address:

Contact Number: Landline -

Mobile -

E-mail (mandatory):

School's name (in block letters) & Address with pin code, phone no & email-id:

Percentage of marks obtained in the 10th standard Board examination held in 2012:

Percentage of marks obtained in science subjects:

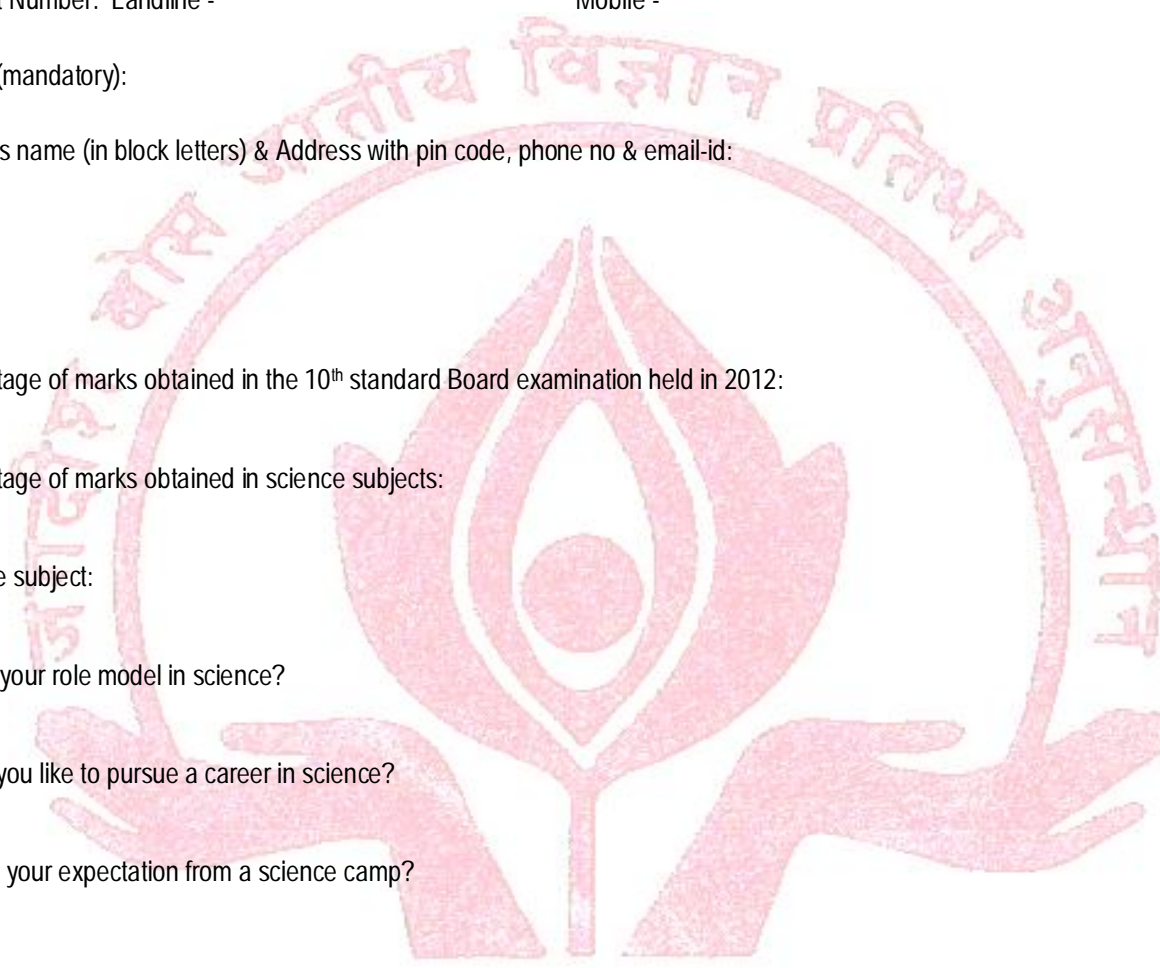
Favorite subject:

Who is your role model in science?

Would you like to pursue a career in science?

What is your expectation from a science camp?

Have you heard about JBNSTS before the camp? How?



“Learning, Not Education”

(October 8 - 12, 2012) JB Centre of Excellence for Student-Scientists,
1300, Rajdanga Main Road, Kasba, Kolkata 700 107

Feedback sheet

Name of the student (in block letters):

School's name (in block letters) & address with pin code, phone no. & email-id:

What is your opinion about this science camp? Which of the sessions have you enjoyed more and why? How does it motivate you to pursue your career in science?

स जीवति मनो यस्य मननेन हि जीवति

Your comments on how the science camp could have been made better?

Signature of Student

