

DST INSPIRE INTERNSHIP SCIENCE CAMP 2024

About INSPIRE

INSPIRE is one of the innovative program developed by the Department of Science and Technology (DST). The basic objectives of INSPIRE are to attract talented young students to undertake innovative research at an early stage and help to build the required critical human research and development base of our nation.

Highlights of the Science Camp

- Lectures related to all science streams by renowned professors and scientists
- Hands on experience in basic science laboratories
- Science quiz
- Article write-up competition
- Pre-dinner discussions by mentors
- Research lab, skill lab and product lab visit
- Cultural programs & sports event

Financial Support

- The entire program is offered at free of cost.
- All expenditures towards registration, travel allowance, accommodation and food for all students attending inspire science camp will be taken care of by DST INSPIRE program through respective camp organizers.

Eligibility

- Students currently pursuing science stream in XI standard are eligible to apply (cut-off percentage in X standard as follows)

State Board	CBSE	ICSE	Viswa-Bharathi
478 & above	A1 grade (or) 96% & above	97.83 % & above	97.44% & above

- The total number of students is restricted to 150.
- The selected students will be intimated through phone/e-mail

How to apply (Last Date: July 13, 2024)

Duly filled-in applications in the prescribed format signed by the Principal / Head-master of the school where the student is now studying along with the attested photocopy of the Class X mark statement should be sent on or before July 13, 2024 to the program Coordinator by Post / Courier or e-mail.

Important dates

Last date for application submission	: 13 th July 2024
Intimation of selected students	: 16 th July 2024
Confirmation by selected students	: 17 th July 2024
Science camp dates	: July 22 – 26, 2024 (5 days)

22 – 26 July 2024



Sponsored by
**Department of Science and
Technology Government of India**

Organized by
Department of Physics



Advisory Committee:

Dr Palanisamy C *Principal*
Dr Sivakumar K *Dean PDS*
Dr Senthil Kumar K L *Head Academics*
Dr Bharani Kumar R *Head Skill*

Head of the Department:

Dr Pongali Sathya Prabu N *Physics*

Program Coordinator

Dr Ashokan S
Assistant Professor in Physics
Bannari Amman Institute of Technology
Sathyamangalam – 638 401
Erode District, Tamil Nadu
Tel.: 99657 64819
Email: ashokan@bitsathy.ac.in,
dstinspire@bitsathy.ac.in



Programme web link:
<https://tinyurl.com/dstinspire>





INSPIRE INTERNSHIP SCIENCE CAMP

22 - 26 July 2024

DEPARTMENT OF PHYSICS

BANNARIAMMAN INSTITUTE OF TECHNOLOGY

(Autonomous Institution Affiliated to Anna University Chennai) Sathyamangalam



GENERAL INSTRUCTIONS FOR STUDENTS

1. The selected students should report to the respective hostels (boys and girls) on 21st July 2024 before 5:30 pm.
2. The registration for the science camp will close on 21st July 2024 at 7:00 pm.
3. Students have to stay in the BIT campus at Sathyamangalam for the entire duration of the camp as the camp is residential in nature.
4. Participation in the camp demands very high level of dignified conduct and discipline on the part of students. Students found violating any of these conditions shall be sent back immediately. The students are requested to wear formals and to conduct themselves with necessary discipline for the smooth conduct of the program. The students are required to be present in the halls till the end of every session.
5. The students are requested to wear their school uniform in the inaugural and valedictory function of the camp.
6. The students are requested to bring their school identity card. All the students are instructed to wear their ID cards throughout the program. Those who are not having identity cards are instructed to bring the bonafide certificate from the Principal/Headmaster.
7. There is no registration fee for attending the camp. For any queries regarding registration/certificates, Contact **Dr S Ashokan (99657 64819)**.
8. The free registration includes registration kit (Bag, Notebook, Pen, Pencil, Soap, Shampoo, Hair Oil, Hair Comb, Face Powder, Brush & Toothpaste), accommodation for five days (breakfast, lunch, dinner, tea/snacks). The mess timings are: Breakfast (7:00 - 8:15 a.m.) Lunch (12:45 - 1:30 p.m.) and Dinner (7:00 - 8:00 p.m.)
9. The students are instructed to adhere strictly to the timings as mentioned in the program schedule and they are advised to sign in the daily attendance sheet.



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10. All the selected students will be provided a suitable accommodation on room sharing basis and hospitality for all five days of the camp in BIT campus at Sathyamangalam. For any queries regarding accommodation, kindly contact **Dr S Ashokan – 9965764819 (both boys & girls)**.
11. Separate accommodation for boys and girls will be provided.
12. The students have to report to the respective hostels immediately after dinner. After dinner the volunteers will guide you to the hostels. Attendance will be taken in the hostels every day after the dinner.
13. Staying on the BIT campus for the accompanying parent/ guardian is not allowed. Your Parents may drop you on 21st July 2024 and pick you on 26th July 2024. Teachers accompanying more than ten students will be allowed to attend the camp.
14. Students possessing mobile phones in the campus will have to keep it safe under your own responsibility.
15. Certificates will be issued to the Students on 26th July 2024 after the valedictory function.
16. Feedback forms for the whole camp will be distributed to the students on 25th July 2024 and the filled in forms are to be submitted on 26th July 2024 after the morning session without fail.

With thanks and warm regards,



Dr S Ashokan

Coordinator - DST Inspire Science Camp

Assistant Professor

Department of Physics

Bannari Amman Institute of Technology

Sathyamangalam

Erode District, Tamil Nadu, India

Phone: 9965764819

Fax: 04295 - 226666



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Important Information

Dear Students,

Greetings. Please think yourself any one of these topics of national importance mentioned as follows for creating your knowledge and innovative ideas to be expressed during the Camp. The scientific writing competition on the key areas of priority will be conducted on 23rd July 2024. This is an essential item for attending the camp as desired by DST.

The following are some of the key areas of priority:

- ✓ *Green revolution*
- ✓ *Renewable and non-Renewable energy*
- ✓ *Clean energy*
- ✓ *Natural resources utilization for sustainability*
- ✓ *Make in India*
- ✓ *Swatch Bharat & Ganga Rejuvenation*
- ✓ *Energy conservation efficiency and sustainability*
- ✓ *Harnessing modern technology for second green revolution*
- ✓ *Dairy and Livestock Sector*
- ✓ *Solid & Liquid Waste Management*
- ✓ *Recycling & processing of waste to conserve resources*
- ✓ *E-waste management*
- ✓ *Biodiversity for sustainable development*



DEPARTMENT OF SCIENCE AND TECHNOLOGY

Govt. of India, New Delhi

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INSPIRE INTERNSHIP SCIENCE CAMP

22 - 26 July 2024

REGISTRATION FORM

1. Name of the Applicant	:	_____	<div style="border: 1px solid black; padding: 5px; text-align: center;">Affix the Recent Passport Size Photo</div>
2. Gender (Male / Female)	:	_____	
3. E-Mail	:	_____	
4. Father's Name	:	_____	
5. Class	:	XI Standard	
6. % of marks in class X (Attach xerox copy of the mark sheet)	:	_____	
7. Scheme of study & year of passing: (SSLC / CBSE / ICSE)	:	_____	
8. Name & address of the school	:	_____ _____ _____	
Phone Number (School)	:	_____	E - Mail:
Mobile (School)	:	_____	
9. Residential address	:	_____ _____	
Mobile (Student/Parent)	:	_____	E - Mail:

Date:

Signature of the Student

This is to certify that the above facts are true as per the school records and to our best information. Further, I recommend that the student can be permitted to attend the DST INSPIRE Science Camp during 22 – 26 July 2024 at Bannari Amman Institute of Technology.

Date:

Signature of the Principal with Seal

* Please send the filled in application form to the coordinator on or before 13 July 2024.

* Photocopies of the registration form can be used for individual registration.



**Department of Science and Technology
Ministry of Science and Technology
Government of India**

**GUIDELINES
FOR ORGANIZING INTERNSHIP SCIENCE CAMPS**

of

**INSPIRE Internship
Component**

Under



**Innovation in Science pursuit for Inspired Research
(INSPIRE)**

This document provides INSPIRE Internship implementation guidelines under the INSPIRE Scheme of the Department of Science and Technology (DST).

The Department of Science and Technology (DST) reserves the right to review and modify these guidelines as and when required.

Guidelines

“**Innovation in Science Pursuit for Inspire Research (INSPIRE)**” is a scheme of the Department of Science & Technology for attracting young talent to science. The objective of INSPIRE scheme is to communicate to the youth population of country the excitements of creative pursuit of science and attract them to study science at an early stage and build the required critical human resource pool for strengthening and expanding the Science & Technology system and R&D base of the country.

INSPIRE Internship a component under INSPIRE Scheme aims to provide exposure to students who are among top one percent in their X Board Examination and pursuing science in standard XI, by organizing Science Camps either during summer or winter which provides opportunity to them to interact with Science icons from India and abroad, including Nobel Laureates, to experience the joys of scientific pursuit. These science camps nourish the curiosity of students in science, help them to think out-of-the box and attract students at an early age of 16-17 years to choose science subjects for further studies and pursue research as career.

These camps are organized at various universities/colleges/academic/research institutes within country and are residential in nature except in metropolitan cities. **Selection Criteria:** Selections to be made among the top one percent rankers in their X Board Examination and pursuing science in standard XI. **Duration of the Summer/Winter Camp:** 5 days (excluding the days of Journey)

Students Eligibility Criteria:

- a. Top one percent ranking in their X Board Examination
- b. pursuing science in standard XI and
- c. should not have attended a similar camp earlier
- d. participating students shall be from the same state or UT

Note: In case the number of top 1% students for a science camp is more than the allocated number of INSPIRE interns, top rankers will be selected for INSPIRE internship science camp provided they had applied for the same. The list of the cut-off percentage for various State and Central Education Boards class X examination is available at Table 1.

Eligibility Criteria for INSPIRE INTERNSHIP Science Camp Organizers:

- a. University/College or Academic/Research institute should have the required infrastructure of related Science Laboratories for holding INSPIRE Internship Science Camps.
- b. Availability of auditorium with well equipped sound system and LCD projectors.
- c. Availability of Guest House, Hostel for Girls and Boys, with requisite holding capacities.
- d. University, College or Academic/Research institute shall owe the administrative and financial responsibility for the organization of INSPIRE Internship Science Camp.
- e. Organizing institute has to provide an undertaking that they will participate in the monitoring of the camp whenever they are asked to do so. DST will provide only boarding and Lodging for attending the monitoring meeting.

Schedule of the Program

Each day the schedule of the program should comprise of at least two lectures cum discussion of one and a half hour in the first half of the day (i.e., 0930Hrs to 1300hrs) followed by hands on experience in the second half (i.e., 1400Hrs to 1730hrs). Since the camps are residential in nature, coordinator should engage students in the thinking process on the issues of national importance by way of organizing sessions of interns for writing on new and innovative ideas. The following are some indicative areas:

- ❖ Agriculture and Food Security
- ❖ Energy Science and Green technologies
- ❖ Clean energy
- ❖ Climate Change and Natural Resources Rejuvenation/utilization
- ❖ Make in India
- ❖ Swachh Bharat
- ❖ Personalized Health care: Prevention and Control
- ❖ Digital Services including Artificial Intelligence and Machine Learning
- ❖ Pollution and its control
- ❖ Waste Management and Garbage Disposal

Program Coordinator can organize pre-dinner interactive session with the students on the first day and initiate the discussions about the role of science and technology in the development of nation. Out of 5 days of camp on 2nd or 3rd day the camp organizer shall organize a session with the participating interns on writing the new and innovative ideas on the above areas. Organizer shall evaluate the idea write ups through the external mentors present during the 4th or 5th day and select the best ten write-ups in the raking of 1st 2nd 3rd 10th. The interns whose write-ups will be selected for 1st -10th rank will be awarded during the valedictory function. Program coordinator has to submit these ten write-ups in soft Copy to DST immediately after the completion of science camp as well as along with completion report.

Considering the queries raised by the camp organizer to have Nobel Laureate participation in more camps, it is agreed that each visiting Nobel Laureate has to interact with the students of two camps, if the camps are being organized during the same period. This will help in more number of INSPIRE Interns interacting with the Nobel Laureate.

2. Also, Registration and Feedback forms duly filled in by the participating students including a photograph of the student, identity proof, cut off marks, courses pursued in the XI standard and a declaration that he/she has not attended a similar camp earlier needs to be retained by Camp Organizer.

Table - 1

**State & Central Boards Top 1% Percentage Cut-off Marks in class X
Year 2023– Eligible to participate in the INSPIRE Internship Camps**

Sl. No.	Name of Board	CGPA/Top 1% Percentage Cut-off Marks
1.	Andhra Pradesh	96.83
2.	Assam	88.67
3.	Bihar	86.40
4.	Chhattisgarh	89.33
5.	Goa	95.33
6.	Gujarat	89.33
7.	Haryana	94.6
8.	Himachal Pradesh	95.71
9.	Jammu & Kashmir, Ladakh	98
10.	Jharkhand	90.60
11.	Karnataka	96.64
12.	Kerala	98.62
103.	Madhya Pradesh	91.6
14.	Maharashtra	93.40
15.	Manipur	89
16.	Meghalaya	81.50
17.	Mizoram	86.8
18.	Nagaland	93.67
19.	Orissa	88.33
20.	Punjab	94
21.	Rajasthan	92.33
22.	Telangana	Data Awaited
23.	Tamil Nadu	95.6
24.	Tripura	91.20
25.	Uttar Pradesh	88.83
26.	Uttarakhand	89.40
27.	West Bengal	90.71
28.	CBSE	96.0
29.	ICSE	97.83
30.	Viswa-Bharathi	97.44
31.	AMU Board	96.40
32.	Banasthali Vidyapith Board	96.75

$$[\% \text{ - Marks} = \frac{\text{Marks obtained}}{\text{Maximum Possible Marks}} \times 100]$$
