



A MEGA SCIENCE FESTIVAL

# inSCIgnis

Explore | Intellect | Visualise

TEZPUR UNIVERSITY STUDENTS' SCIENCE COUNCIL



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**PREPARED AND PRESENTED BY-**

**INSCIGNIS OUTREACH TEAM, 2021**

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*“Science means constantly walking a tightrope between blind faith and curiosity; between expertise and creativity; between bias and openness; between experience and epiphany; between ambition and passion; and between arrogance and conviction – in short, between old today and a new tomorrow.”*

*– Henrich Rohrer*

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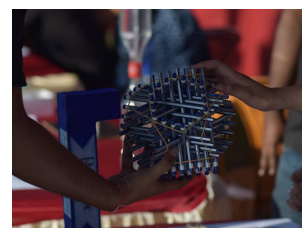
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# An Overview

inSCIgnis, one of the leading and the biggest science festivals in North-East India is the annual mega science fest of Tezpur University organized every year by the School of Sciences. This fest is celebrated on the occasion of National Science Day commemorating the contributions of the first Nobel Laureate in Physics for India, Sir C. V. Raman. inSCIgnis rejoices the spirit of science and innovation fostering scientific temper among masses. Throughout all these years, inSCIgnis has emerged as one of the leading platforms in North East India where science, in its true essence, is celebrated. First started in the year 2014, inSCIgnis has always come up with newer and better ways to popularize science among people. With its motto to promote extraordinary growth with science, The festival has always striven to be different and unique in this approach and always stand out as the most compelling science fest in the North East.



The word 'inSCIgnis' has been derived from the Latin word 'INSIGNIS' which means ushering in distinguished, remarkable or rapid mark making development in a particular field. Unveiling a mosaic of exhilarating and thrilling events, the festival stands as a unique platform for intensive workshops, quizzes, talks, experimentation and designing, fun games and many more. One of the major goals of inSCIgnis is to promote and encourage science within the community. Students from Tezpur University visit schools, specially the underprivileged ones to give them a proper exposure of Science. The prime target is to make them understand that learning science can be fun and interesting and that science is not just a subject of classroom study. We encounter basic scientific principles and examples in every moment of our day to day life and once we are familiar with the results, we can play around with them.





# Goals and Objectives

The foremost goal of inSCIgnis is to enthuse and inspire young people about science. It is committed to engage people with various aspects of science and technology. In the entire North-East region, inSCIgnis tries to identify areas where young and expanding minds can contribute to discussions for exchange of ideas and expertise. Varied events including workshops, quizzes, talks, experiments, panel discussions and even fun games with the core content of science and technology ingrains the attendees to think '**OUT OF THE BOX**' and instills a sense of innovation. Not only the attendees but also the organizers get benefited with the experience of camaraderie and accomplishment.



To know the world we live in, it is very essential to try to explain incidents from our day to day life with a scientific point of view. Keeping this in mind, inSCIgnis tries and helps to make science learning more interesting to the attendees. Celebrating and inspiring curiosity, it provides a spark among students to pursue science as a carrier and research in different areas of science. Breaking the very myths and misconceptions, which are barriers to understanding science, inSCIgnis helps in changing the typical perspective of students about science thus providing a scientifically enriching experience and environment.





# Evolution of inSCIgnis

Pioneered by the students and officials of Tezpur University, inSCIgnis, the annual mega science festival of Tezpur University, has been a phenomenal success so far. Unveiling a mosaic of exhilarating and fascinating events, the institution, with the joined efforts from the Tezpur University Students' Science Council (TUSSC) and the authority, celebrated the fiesta in the year 2014, for the first time, and since then it has witnessed an exponential mount, both in terms of eminence and enormity. Throughout these years it has emerged as a leading platform, where science, in its true essence, is celebrated and is regarded as one of the most compelling science fests in the entire North-Eastern region of the country.

"To think Science in nature, to revive Science" is what the council believes in. Embarking on a journey to rejoice the spirit of science and innovation with an objective to nurture and encourage scientific approaches amongst the masses, inSCIgnis'14 as organized on the occasion of National Science Day commemorating the contributions of the Nobel Laureate in Physics for India, Sir C. V Raman, with a well thought out theme "FOSTERING SCIENTIFIC TEMPER", reflecting and unifying the objectives of the event.

Throughout this rewarding and noteworthy journey, inSCIgnis has evolved beyond a mere science fest. Inquisitive minds, young and matured alike, look forward to this yearly science festival with substantial enthusiasm every year. Illuminating minds with the vision for science has always been the foremost intent of the event. Thus, carrying forward the legacy of disseminating

scientific zeal all over, every year this fiesta has been organized with great ardour. Perhaps it is the only science festival in the country where the National Science Day is observed with such pomp and gaiety. Over the years, inSCIgnis has achieved remarkable achievements. With the count of sponsors, partners, participants and well-wishers multiplying tremendously every succeeding year, the recent editions have seen significant advancement.

inSCIgnis' 20, the seventh edition of this yearly phenomenon, stood up to its preceding editions and even exceeded in majority of the aspects, turning out to be one of the largest editions with the highest footfall of people, recording an audience of more than 2000 school and college students. The 2020th edition achieved several milestones in the history of inSCIgnis. For the first time in inSCIgnis, a record total of 155 plant saplings were gifted to participants, visitors and guests of honour by the organizing team. Free lunch was provided to a total of 1860 participants throughout the duration of the festival. Most notably, the annual souvenir of inSCIgnis took the form of a full-fledged magazine called '**ANUNAAD**' and is now officially the annual magazine of the School of Sciences.

The future of inSCIgnis looks promising and propitious with renewed energy and anticipation among the school authorities and students. With a plethora of new, creative and compelling events, the eighth edition of inSCIgnis' 21 is on the threshold of taking the shape as one of the most leading and appealing science festivals of the country.



# Outreach Programs

*"There are two ways of spreading light: to be the candle or the mirror that reflects it" -Edith Wharton*

The school outreach program is one of the very promising and inspiring event held under inSCIgnis every year. This outreach program is a combined effort to reach out to students especially the underserved students and encourage them to explore more in the amazing field of science. The students and members of Tezpur University reach out to various schools and introduce them to various events like quizzes, educational games, scientific documentaries, handmade scientific models, scientific discussions etc., trying to spread all the scientific facts and theories in a fun and exciting way. Our prime objective lies in making these children realize how important science is in our day to day life and also how science can be fun and not only restricted to text books as a subject. Outreach Programs are conducted keeping in mind that more and more students are benefited with it.



The School students (the one who are the attendees of Outreach Programs) are benefited a lot by this program.

- a) The programs generate much-needed excitement and interest in Science among students and provide a scientific atmosphere.
- b) Provides the spark to pursue science as a carrier and research in different areas of science.
- c) Breaks Myths about Natural Phenomenon and thus explain the underlying scientific concept.
- d) Enables students to think out of the box and channels the creativity of young mind in an innovative and proper direction.
- e) Breaks the very rules of classroom education and thus makes science learning more interesting.
- f) Channels the creativity of young mind in a proper direction.
- g) Creates a scientific atmosphere.

To the University students it brings a sense of accomplishment, camaraderie, and community. It is a great way to gain a deeper understanding of science and its application. The University students are the beneficiaries that learn a lot of skills related to teaching and communicating.

Throughout the years, we have been conducting these outreach programs to schools in and around the University premises. It has been solely possible due to the efforts shown by the Headmasters and Teachers-in-Charge of the respective schools who have believed wholeheartedly in our initiative.





We have been conducting these outreach programs for the last few years and these school students always surprise us. They possess immense talent that remain hidden and desperately need our attention. We are stunned at their eagerness to attempt and answer even the most critical questions. Their questions possess so much depth that sometimes these sweep us off our feet and leave us scratching our heads. This makes us both happy and sad at the same time. Happy because they possess so much talent, and sad because they are not getting the attention they deserve. We discuss these things with their principals and most of them have more or less, the same thing to say, "They are helpless." We invite the schools to our science fest, inSCIgnis. Their talent is justified by the fact that even during the festival

they are the ones who are bagging most of the prizes. Although we have seen much more improvements in these schools throughout these years, yet some problems still exist, some classrooms are yet made of bamboo, during a heavy wind, the walls collapse and classes do not run for several days, in some classes, the lighting is not sufficient and it is not ideal for students to learn in low lit rooms. In some of the schools, sufficient number of teachers are not present. These problems need to be tackled quickly since the young minds need better nurturing and support. Our program has been able to identify these issues in some small region but many are still there in the entire North East region. Hopefully, in the coming years, we will be able to spread our outreach even further and reach newer horizons.





# inSCIgnis 2021

The Covid-19 pandemic has brought with it an era where home is the new workplace and internet is the new meeting room. It disrupted what we humans had built and acquired over hundreds of years; everyone has suffered some way or the other. But as it is said, we learn the most when situations are the worst and hence, we at Tezpur University too are resolved to not let any scope for scientific discussion go wasted and make it prosper. Therefore, we are ready to host the mega science festival, inSCIgnis from **26 - 28 February**.

## Theme

This year, continuing the tradition we present the online version of the annual science fest inSCIgnis with the theme -

**"VIGYANAHA PRADHANAM UTTARAM".**

To be inquisitive is in the very nature of man. The world we live in is so fascinating that humans are not to blame, for questioning every thing happening around. All that exists in this universe has a reason behind it and that reason can only be found out with science. With the evolution of human being we saw the evolution of science. From the time when Galileo was put under house arrest for proposing the sun as the center of our solar system to the time India sent it's first Mars Orbiter Mission.

As goes the saying 'Necessity is the mother of invention', the ongoing pandemic has coerced scientists to collectively work towards finding a cure of the virus in the form of vaccines, whose foundation as a defense from diseases was determined by Sir Edward Jenner. All these works from various scientists from centuries helped our world to move forward.



**"Science is the answer to everything"** as the theme aims to inculcate the idea of having a scientific perspective towards the world. Such a perspective will pave way for more scientific development and discussion in the future because somewhere something incredible is waiting to be known.



# Objective of Online inSCIgnis



***Why conduct inSCIgnis in such hard times?  
Why take the pain when it can be easily  
postponed or not be conducted at all?***

The prime purpose of inSCIgnis is to instill a sense of scientific awareness in all the sections of the society, to inspire and spark curiosity in the young minds and to motivate the youth towards the fields of research. The world needs a more scientific approach in all aspects, more motivated researchers, more curious minds and more dedicated followers of science, now, than ever before.

In the present scenario, it is inescapable for the lay men to get manipulated by the already existing myths and misconceptions. Lack of scientific temperament is evident within the larger segment of the society. Thus, scientific awareness is the need of the hour. Therefore, giving up on the science festival is out of the question. About the concern of postponing the fest, the future is uncertain. So we better act in

the present. inSCIgnis'21 may be an ordeal in many parts, however, it is a necessary ordeal.

The plethora of events offered by the fest which direct people to think 'out of the box' and induce a scientific approach in general everyday activities and topics, may help a sea of people to survive the current situation. The outreach programs shall benefit the deprived and underprivileged section of the society of our country.

The students from the rural background will stand a chance to gain the knowledge imparted by the genius minds during the events. inSCIgnis'21 will also provide a reason for the people to look forward to, during these tough times. The ongoing pandemic has demonstrated the interconnected nature of our world. Only by acting in solidarity and having faith in science, can we save lives and overcome the catastrophic impacts of the present circumstances.



# TUSSC Outreach Programs 2021

## 1. PANEL DISCUSSION

- TOPIC OF DISCUSSION: COLONIZING MARS
- PANELISTS FROM **TEZPUR UNIVERSITY, COTTON UNIVERSITY, GAUHATI UNIVERSITY, DIBRUGARH UNIVERSITY, ASSAM AGRICULTURAL UNIVERSITY**
- **OPEN FOR ALL**
- ORGANISED ON 13 FEBRUARY, 2021 AT 11 AM ([CLICK HERE TO VIEW THE VIDEO](#))

## 2. PANEL DISCUSSION

- TOPIC OF DISCUSSION: MANUFACTURING SUSTAINABLE PRODUCTS
- PANELISTS FROM **ASSAM JATIYA VIDYALAYA, ARMY PUBLIC SCHOOL, DON BOSCO SCHOOL, RAMANUJAN SECONDARY SCHOOL, SALT BROOK ACADEMY**
- **OPEN FOR ALL**
- ORGANISED ON 14 FEBRUARY, 2021 AT 11 AM ([CLICK HERE TO VIEW THE VIDEO](#))

**For any queries you can reach us at -**



+91 - 7896594624 / +91 - 8876699069 (Nayanjyoti Boro / Santanu Sarmah)



[outreachinscignis2021@gmail.com](mailto:outreachinscignis2021@gmail.com)



# inSCIgnis Events 2021

## GENERAL EVENTS

### 1. NERLSE (SCIENTIFIC EXHIBITION)

STANDARD 9 - 12 (CATEGORY I)  
STANDARD UG - PG (CATEGORY II)

### 2. YOUDLE (DOODLE COMPETITION)

OPEN FOR ALL

### 3. CODEWAR (CODING)

OPEN FOR ALL

### 4. ONLINE TREASURE EVENT

OPEN FOR ALL

### 5. CALOTYPE (PHOTOGRAPHY)

OPEN FOR ALL

### 6. CEREBRUM (QUIZ)

OPEN FOR ALL

### 7. BEST FROM WASTE

OPEN FOR ALL

### 8. 2020: A SCIENCE VIEW

OPEN FOR ALL

TOPICS:

**A) BEYOND DIHING PATKAI** (SCIENTIFIC VIEW AS A JUNIOR ENVIRONMENTALIST)

**B) A LETTER TO CORONA** (DEALING VIA SCIENTIFIC PERSPECTIVES)

**C) WHAT IF? BAGHJAN INFERNO** (DEALING VIA SCIENTIFIC ADVANCEMENTS)

### 9. RUBIK'S CUBE

OPEN FOR ALL

### 10. TRASH CHALLENGE (CLEANLINESS DRIVE)

OPEN FOR ALL

### 11. TALK SESSIONS

OPEN FOR ALL

### 15. SCI FI WRITING

OPEN FOR ALL

*For more details: [inSCIgnis Event Details 2021](#)*

*To register for any events visit [www.inscignis.in](http://www.inscignis.in)*



**13. WHAT IF (ASTRONOMY PRESENTATION)**

STANDARD 9 - 12 (CATEGORY I)  
STANDARD UG - PG (CATEGORY II)

**15. THALAMUS (QUIZ)**

STANDARD 8 - 12

**14. SCI-Q-LIMBIA (SCIENCE MEME QUIZ)**

STANDARD 8 - 10 (CATEGORY I)  
STANDARD 11 AND ABOVE (CATEGORY II)

**16. SCIENTIFIC ESSAY**

STANDARD 9 - 12

## **DEPARTMENT OF CHEMISTRY**

**1) QUIMIQA 2.0 (CHEMISTRY QUIZ)**

STANDARD 9-12

**3) CHEM'X'TRACT (CHEMISTRY**

STANDARD 8 -12 (CATEGORY I)  
STANDARD UG - PG (CATEGORY II)

**2) PERIODICA (PERIODIC TABLE QUIZ)**

STANDARD 9-12

## **DEPARTMENT OF ENVIRONMENTAL SCIENCE**

**1) REUSE TO AMUSE (RECYCLING PRODUCTS / ECO FRIENDLY PAINTING)**

OPEN FOR ALL

*For more details: [inSCIgnis Event Details 2021](#)*

*To register for any events visit [www.inscignis.in](http://www.inscignis.in)*



## **DEPARTMENT OF PHYSICS**

### **1) CROSSICS (CROSSWORD)**

STANDARD 8-11

### **3) JAM (JUST A MINUTE) (PHYSICS EXTEMPORE SPEECH)**

STANDARD 8-12

### **2) E'R''R'O'R' (MEME VIDEO QUIZ ON PHYSICS)**

STANDARD 8 - 12 (CATEGORY I)  
STANDARD UG - PG (CATEGORY II)

## **DEPARTMENT OF MBBT**

### **1) VERITATES (A QUIZ OF MISCELLANY)**

STANDARD 8 - 10 (CATEGORY I)  
STANDARD 11 - UG (CATEGORY II)

### **3) THE GREAT DOODLER'S BIONANZA (ON SPOT BIOLOGICAL DOODLING)**

STANDARD 8 - 10 (CATEGORY I)  
STANDARD 11 - PG (CATEGORY II)

### **2) BIOCIPHTRIX (BIOLOGICAL CROSSWORD)**

STANDARD 8 - 12

## **DEPARTMENT OF MATHEMATICS**

### **1) MATHELETISMO (MATHEMATICAL RELAY)**

STANDARD 8 - 12 (CATEGORY I)  
STANDARD UG - PG (CATEGORY II)

### **3) PLAYING WITH NUMBERS (DESCRIBING NUMBERS WITH MATHEMATICAL OPERATIONS)**

STANDARD 9 - 12

### **2) CHESS-E-MATICS (MATH APPLIED IN CHESS)**

STANDARD 8 - PG

*For more details: [inSCIgnis Event Details 2021](#)*

*To register for any events visit [www.inscignis.in](http://www.inscignis.in)*



## LETTER OF INVITATION

To  
The Head of the Institution,

Date: 17-02-2021

**Subject:** Invitation to inSCIgnis 2021, the annual science fest of Tezpur University

Respected Sir/Madam,

Greetings and warm regards from Tezpur University.

It gives us immense pleasure to inform you that like the previous years, this year too, the Students' Science Council of Tezpur University is organizing **inSCIgnis**, the annual science fest of Tezpur University, on the occasion of the National Science Day. The 8th edition of this mega science fest, **inSCIgnis 2021** will be celebrated from **26 February 2021 to 28 February 2021**.

inSCIgnis 2021 will comprise of a plethora of events involving workshops and presentations concerning the repercussions of our present day atrocities towards nature. Also several talks by our guests of eminence, captivating workshops, brain storming quizzes, a grand North East Regional Level Science Exhibition (NERLSE), fascinating astronomy events, departmental events, interactive panel discussions, debates and many other reveling events will comprise this three day event.

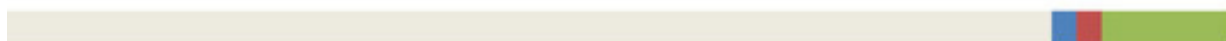
The science fest has been gaining gradual success since its inception and this has been possible due to the large scale participation of the students from schools and colleges across the state. It would, therefore, be a great privilege for us if you could be a part of this auspicious occasion and help us in this ardent venture of promoting scientific temperament.

Tezpur University and inSCIgnis 2021 look forward to an unequivocal and large hearted response from your institution.

Further details of the fest can be found in our website [www.inscignis.in](http://www.inscignis.in)

Thanking You.

Sincerely,  
Team inSCIgnis 2021



*For any queries, you can reach us at-*



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# GALLERY









