



**GAUHATI UNIVERSITY**

A NAAC 'A' GRADE INSTITUTION

GOPINATH BARDOLOI NAGAR, JALUKBARI  
GUWAHATI-781014 (ASSAM)  
WWW. GAUHATI.AC.IN



## SUPPORTING DATA

NAAC 4<sup>TH</sup> CYCLE OF ACCREDITATION  
PROVIDED BY-  
IQAC, GAUHATI UNIVERSITY

## CRITERION 3

Assessment term: 2018-2023

Sub criterion 3.3

*Innovation Ecosystem*



### दैनिक पूर्वोदय

## गौहाटी विवि में मनाया गया विश्व बौद्धिक संपदा दिवस

▲ पूर्वोदय संबाददाता  
मालीगांव, 26 अप्रैल। गौहाटी विश्वविद्यालय के बौद्धिक संपदा अधिकार कोष और असम सांस्कृतिक टेक्नोलॉजी एंड एनवायरनमेंट कंसेंट्रिस्ट (एस्पर्टीसी) के संयुक्त तत्वावधान में मंगलवार को विश्व बौद्धिक संपदा दिवस मनाया गया। इस वर्ष विश्व बौद्धिक संपदा दिवस का थीम था 'बौद्धिक संपदा और नए प्रक्रम: जन्म प्रक्रिया के लिए नवाचार'।

गौहाटी विश्वविद्यालय के कुलपति अध्यापक डॉ. प्रताप ज्योति साईके ने विश्वविद्यालय में आयोजित इस कार्यक्रम का शुभारंभ किया। विश्वविद्यालय के कुलपति डॉ.



प्रताप ज्योति साईके ने कहा कि नवाचार ही उन्नति की आधार है। इसलिए नवाचार में छात्र छात्राओं को अपनी समन क्षमता चाहिये

इस कार्यक्रम में एस्पर्टीसी के संचालक कोमने चणेशं प्रथम अतिथि रूप में उपस्थित थे। उन्होंने अपने भाषण में कहा कि उद्युक्त विकास

और सुंदर प्रक्रिया के लिए नवाचार के द्वारा परिवर्तन लाया होगा। देश को नई पीढ़ी हमारे देश के भविष्य निमाता है। अध्यापक डॉ. रंजित कुमार बर्मन ने अपने भाषण में बौद्धिक संपदा अधिकार के लक्ष्य और मॉरिक्का की विभिन्न पहलुओं पर प्रकाश डाला। उनके साथ गौहाटी विश्वविद्यालय की बौद्धिक संपदा अधिकार कोष की सम्न्वयक अध्यापक डॉ. प्रदीप फूजन उपस्थित थे।

इस कार्यक्रम में धर्मानंद वोरेसुई, कंगाली फूजन, देवप्रसाद हजारीका, रंजित चोथिया और मनोज कुमार दास को नवाचार के लिए सम्मानित किया गया।

## **Institution's Innovation Council (IIC) and Startup Activities in last 5 years:**

### **I. Kareng Technologies, Ugroshore, UrbanChang, Dima Hasao Eco Tourism:**

Pallab Jyoti Kakoti, a **Research Scholar** from the **Department of Applied Sciences** at G.U. and a resident of the **Babu Jagjivan Ram Research Scholar Hostel**, who has obtained his **B.S.-M.S. degree (Physical Science)** from **Gauhati University**, and it is Pallab's 12th year in the GU campus.

Since 2014, he has been a **Founder** of several startups alongside **G.U. students and alumni**. They are also incubatees of **Assam Startup: Cohort 1.0** with handholding support of **IIM Calcutta Innovation Park**, who saw their potential to showcase Assamese heritage and culture in a very organic and unique way.

Here are the ventures in which Pallab is Founder/Co-Founder:

1. **Kareng Technologies** (<https://karengtechnologies.com/>): Kareng Technologies, one of the foremost software companies with an aim to digitise **Education Sector in Assam**, was initiated in 2013 and it has been growing expeditiously with its **ERP softwares used in Colleges & Universities all over Assam**. Kareng started with a very aggressive and vigorous team with a vision to digitalize the workflows of an Education Institute nearly 7 years ago when digitalization was slowly making its roots among common masses. They have been providing **customised ERP systems to over 90+ Colleges and Universities (Cotton University & Dibrugarh University) in Assam** with hassle-free service.

2. **Ugroshore River Island Resort** (<https://www.facebook.com/ugro.shore/>): Ugroshore River Island Resort was founded in **September 2017, under the parent organization "Eastern Wave" by a group of Gauhati University graduates**, with the goal of connecting tourism and local development in the far-flung corners of North-East India. In this endeavour, they started this **Sustainable Shore-Tourism project (Ugroshore)** in a River-Island in Tezpur in December 2018 with support from **Assam Tourism Development Corporation (ATDC) and Department of Forest, Govt. of Assam**, which had a footfall of **50,000+ tourists** until June, 2021, and generated revenue of more than **30 lakhs** for the **Team & Department of Forest**.

3. **UrbanChang Bamboo Homes** (<https://www.urbanchang.com/>): UrbanChang is a venture started in December 2021, under the parent organization named "Eastern Wave", made possible through the collaboration of **Bamboo craftsman, architects, and engineers** whose aim is to add Bamboo Ethnic architecture in the city with all the modern conveniences through a fusion of urban and rural lifestyles. Urban Chang is one of the very first of its kind **Pre-fabricated modular bamboo cottage brand** that is remarkably International by design and functionality, yet distinctively vernacular by features and functions.

Because of its unique concept and execution, UrbanChang has gained widespread popularity. They have completed two Bamboo Resort projects in and around Guwahati. They are also designing a Bamboo Stall for the **Indian Institute of Entrepreneurship (IIE)**, which will be installed in the **Assam Secretariat** and will be **officially inaugurated by our Honourable Chief Minister, Dr. Himanta Biswa Sharma**. In addition, in the coming months, we will begin projects in Karnataka, Kerala, and Rajasthan.

4. **Dima Hasao Eco Tours** (<https://www.facebook.com/dhecotours>) : In Dima Hasao, they offer Tour Guides, Transportation, and Luxury Accommodations. In addition, they are the **IRCTC's &**

Indian Railway Official Tourism Partner, having been awarded Work Order under the parent organization "Eastern Wave" after a successful bidding process.



**OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY :: DIB**

NO. DU/RG/B-01.07/2021/4778

date: 16/12/2021

1 / 2

To

M/s Kareng Technologies  
H.No.-3, Nandanpur Path,  
Survey, Beltola, Guwahati  
Assam, Pin-781028

Ref: 1) e-Tender no (ID-2021\_DU\_22629\_1) DU/NIT-2021/ERP/69 dated 18.08.2021.  
2) Your quotation no.: Kareng/edu/du/260621/01 dated 26.08.2021

Sub: Order for Designing, Development and Implementation of Cloud Based ERP System for Dibrugarh University

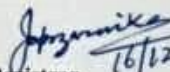
Sir,

In reference to the e-Tender and your quotation cited above, the undersigned would like to request you to execute the job of Designing, Development and Implementation of Cloud Based ERP System for Dibrugarh University as per the specifications mentioned in the Tender and the rates, Terms & Conditions etc. as stated in ANNEXURE-I.

**Terms & Conditions:**

1. Delivery : The Development and implementation of the ERP Cloud based system should be completed within 02 (two) years from the date of issue of this order in consultation with the University authorized officials.
2. Bill : All payments will be made after successful implementation of respective modules in a phased manner. Bills to be submitted in Triplicate addressing to the Registrar, Dibrugarh University along with Mandate Form and a cancelled cheque for RTGS payment.
3. Tax : Prices are exclusive of GST.

As per the tender, you are requested to execute a Contract Agreement with Dibrugarh University at the earliest prior execution of the awarded job.

  
16/12/2021  
Registrar  
Dibrugarh University  
Dibrugarh  
date: 16/12/2021

Memo no. DU/RG/B-01.07/2021/4778

Copy forwarded to:-

1. The Hon'ble Vice Chancellor, D.U. for kind information
2. The Joint Registrar (Admn.), D.U. for information
3. The Deputy Registrar (F&A), D.U. for information and requested to make the payment from the Head of Account, "2250: Computer, Networking, (Hardware and Software), E-governance etc. (Budget 2021-22)".
4. The Technical Officer, D.U. for information and requested to supervise the work.
5. The Programmer, D.U. for information and requested to supervise the work.
6. The P.I.L.O., D.U. for information and necessary action.
7. The Senior Accounts Officer, D.U. for information and requested to supervise the work.
8. The Store-in-charge, D.U., General Store for information and necessary action.
9. Office file

Registrar  
Dibrugarh University  
Dibrugarh





इंडियन रेलवे कटरिंग एण्ड टूरिज्म कॉरपोरेशन लिमिटेड

(भारत सरकार का उधम)

Indian Railway Catering & Tourism Corporation Ltd.  
(A Govt. of India Enterprise)

CIN - U74899DL1999GOI101707

Website -www.irctc.com,

email - info@irctc.com

LOA No. IRCTC/RO/GHY/HP/SPL Package/RFQ/21-22

Date: 16.12.2021

M/s. Eastern Wave,  
Gosai Chuck, Nagsankar,  
Sootea, Sonitpur,  
Assam-784189.

**Sub: Letter of Award for providing backend services to IRCTC.**  
**Ref: Your quoted rates, dated.10.11.2021.**

Vide reference cited above, Competent Authority has approved M/s.Eastern wave for providing backend services to IRCTC for various sector for a period of one-year i.e from 16.12.2021 to 15.12.2022.

The rates approved by IRCTC are given in *Annexure A* subject to complying with the terms & conditions mentioned in the RFQ documents dated 10.11.2021. You are requested to provide the best service to the clients booked through IRCTC system and avoid complaints/negative feedback.

Please acknowledge the receipt of this letter.

Encl: *Annexure A* (approved rates)

(Madhab Saha)

Regional Manager  
IRCTC Ltd., Regional office, Guwahati

**Regional Office, Guwahati:**

4-D Mandovi Apartment. GNB Road,  
Ambari. Guwahati – 781001. Assam.  
Tel: 0361-2737123. Fax: 0361-2737122

**East Zone:**

Old Koilaghat Buliding (Ground Floor),  
3 Koilaghat Street. Kolkata – 700 001.  
Tel: 033-22439045. Fax: 033-22439046

**Corporate Office:**

11<sup>th</sup> Floor, B - 148, Statesman House  
Barakhamba Road. New Delhi – 110 001.  
Tel: 011-23311263 / 64. Fax: 011-23311259



CIRCUIT No.1, BEAUTIFUL DIMA HASAO (4N/5D)	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	37800
02 PAX	26045
03 PAX	18160
04 PAX	13830
05 PAX	11616
06 PAX	9997

CIRCUIT NO.02, ONE DAY HAFLONG PACKAGE	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	18240
02 PAX	9300
03 PAX	7200
04 PAX	5610
05 PAX	4656
06 PAX	4020

CIRCUIT NO.03, WEEKEND HAFLONG PACKAGE (1N/2D)	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	21120
02 PAX	11220
03 PAX	7960
04 PAX	6180
05 PAX	5496
06 PAX	4900

CIRCUIT 04, WEEKEND HAFLONG PACKAGE (2N/3D)	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	32520
02 PAX	16560
03 PAX	11760
04 PAX	9030
05 PAX	7760
06 PAX	6800

CIRCUIT NO.5, WEEKEND AT ITANAGAR (2N/3D)	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	40440
02 PAX	22080
03 PAX	15680
04 PAX	13080
05 PAX	10752
06 PAX	9400

CIRCUIT NO.6, WEEKEND AT MAJULI (2N/3D)	
Rates quoted in Rupees (INR)	
OCCUPANCY	
01 PAX	30520
02 PAX	15560
03 PAX	11100
04 PAX	8530
05 PAX	7360
06 PAX	6470

*Handwritten signature and text: "Dm. Filadomaga"*



Department for Promotion of Industry and Internal Trade  
Ministry of Commerce & Industry  
Government of India

**CERTIFICATE OF RECOGNITION**  
**Department for Promotion of Industry and Internal Trade**

This is to certify that ***EASTERN WAVE*** incorporated/ registered as a ***Registered Partnership*** on ***31-08-2017***, is recognized as a startup by the Department for Promotion of Industry and Internal Trade.

Date of Issue: 13-09-2018

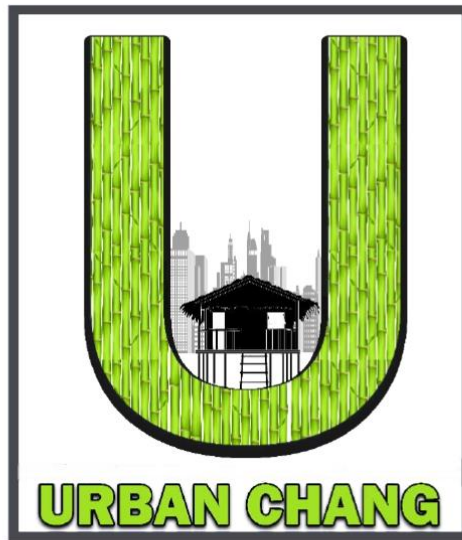
Place of Issue: New Delhi

The certificate shall only be valid for the entity:

- Up to ten years from the date of its incorporation/ registration and
- If its turnover for any of the financial years since incorporation/ registration has not exceeded Rs. 100 crores.

Note:

- **Authorities accepting this Certificate may check its validity on the Startup India portal (<https://www.startupindia.gov.in/>)**
- This certificate is not the Certificate issued by the Inter Ministerial Board and is NOT VALID for availing Tax benefits
- This is a system generated certificate and hence does not require physical signature
- If such recognition is found to have been obtained without uploading the relevant documents or on the basis of false information, DPIIT reserves the right to revoke the recognition certificate immediately without any prior notice or reason.



**SUSTAINABLE LIVING. HIGH THINKING!**

**A Venture of:**



**FIRM REGISTRATION NO:** RF/KAM(M)/173/Y/119 OF 2017-2018

**UDYAM REGISTRATION NUMBER:** UDYAM-AS-25-0000079

**START-UP INDIA CERTIFICATE NUMBER:** DIPP27696

**INCUBATEE OF:**



Assam Startup

Assam Unicorns (1<sup>st</sup> batch)



IIM CALCUTTA  
INNOVATION PARK





**EASTERN  
WAVE**



**FIRM REGISTRATION NO: RF/KAM(M)/173/Y/119 OF 2017-2018**

**START-UP INDIA CERTIFICATE NUMBER: DIPP27696**

**UDYAM REGISTRATION NUMBER: UDYAM-AS-25-0000079**

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The COVID pandemic and resulting lockdown have generated disruptive trends that have impacted people's personal and professional lives across sectors in recent months. The desire for a multi-functional, spacious, and personally tailored **Bamboo Cottage** as an extension of their home has arisen as a result of the need for individual space to accommodate pleasant extended indoor time in a family home.

That's where we come in!

**UrbanChang** is a venture made possible through the collaboration of bamboo craftsman, architects, and engineers whose aim is to add bamboo ethnic architecture to your city with all the modern conveniences through a fusion of urban and rural lifestyles.

In a world where everyone is looking for sustainability, architects are using eco sustainable materials to design their homes. Bamboo is one such environmentally friendly alternative! Bamboo, which was once considered to be a poor man's construction material, is now being used more often in all styles of architecture. Because of its sustainable properties and features, it is now being used to create beautiful and majestic structures such as homes, resorts, offices that are still environmentally friendly. It has a higher compressive strength than concrete or timber, and matches the tensile strength of steel. And we've put together a catalogue of stunning bamboo-built homes that demonstrate how sustainability, comfort and luxury can all coexist! You don't need to give up one to get the other.



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## USP of UrbanChang Bamboo Homes:

UrbanChang Bamboo Housing Solutions is an alternative ethnic bamboo housing solution for recreation or generating income by using it as homestay for tourists.

- Bamboo that has been processed and has a life expectancy of 30 years or more, with tensile strength comparable to steel.
- Traditional Low-Cost Housing Solution in comparison to Brick-Cement Homes
- Withstand Harsh Weather Conditions such as Earthquake, Wind, and Rain
- Ethnic Architecture with Hint of Modern Amenities
- Traditional Stilted Architectural Design for Flood Protection
- Thatching of Hay as Roof, which is a natural insulator in Hot and Cold Weather.
- Designed & Ambience set by experienced Architects and Interior Designer.
- Portable and ready to deploy
- Listing of UrbanChang as Homestay with leading tourism aggregators and Hospitality Training for Owners
- Promotion of Sustainable Living Culture with Reduced Carbon Footprint.

UCH-001

## DWARF PRISM



A Bamboo cottage of triangular shape with Built-up Area of 150 sft and Total Area of 210 sft with 1 studio room, enough to accommodate 2 small beds and a sitting area, developed with the concept of Sustainable space.

It is suitable for guest stays.

It can house 2 to 3 people .

Keep it in your garden with concrete foundation or directly assemble on your terrace.

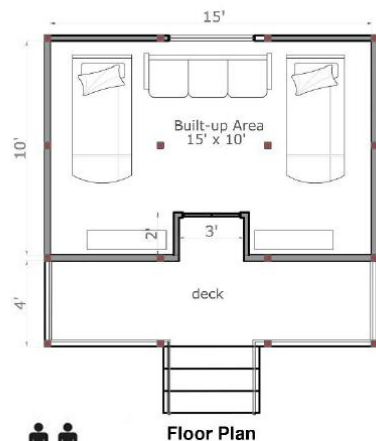
Construction Material

Structure = Bamboo

Floor = Bamboo

Roof = Bamboo

Price: 2,80,000 INR



Floor Plan



Front View



Right-Side View



Back View



Left-side View



UCH-002

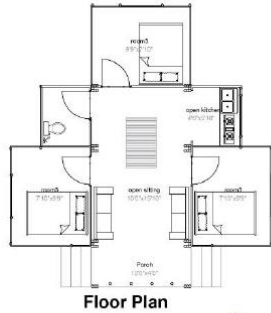
## COLLOSAL CONVEX



A 3 bedroom Bamboo cottage with Total Area of 524 sft with 3 bedrooms (63 sft each), 1 kitchen, 1 toilet and a common sitting area, developed with the concept of Sustainable space. It is suitable for house parties or small get-togethers or guest stays. It can house upto 6 people. Keep it in your garden with concrete foundation or directly assemble on your terrace.

Construction Material  
Structure = Bamboo  
Floor = Bamboo  
Roof = Bamboo

Price= 5,60,000 INR



Floor Plan



Front View



Right View



Left View



Back View



UCH-003

# ELAN CHALET



Indoor View



Front View



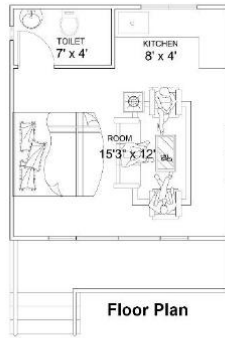
Right Side SECTIONAL View



Left Side SECTIONAL View



Back Side SECTIONAL View



**1 Bedroom Bamboo cottage**  
Total area- 300 sft  
with 1 bedroom, 1 kitchen , 1 toilet  
and a porch  
developed with the concept of Sustainable space.  
It is suitable for individual resort rooms or just for guest stays.  
It can house up to 2-3 people.  
Keep it in your garden with concrete foundation  
or directly assemble on your terrace

**Construction Material**  
Structure= Bamboo  
Floor=Bamboo  
Roof = Hay  
Price = 3,70,000 INR





**UCH-004**

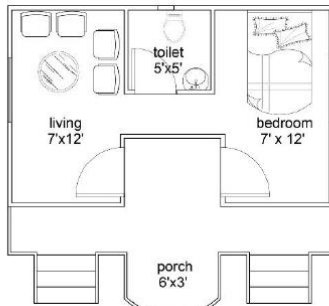
## **MEDIUM PRISM**



A Bamboo cottage of triangular shape with Built-up Area of 300 sft and Total Area of 360 sft with a living room, one bedroom and a toilet, developed with the concept of Sustainable space. It is suitable for resort or home stays. It can house 2 to 3 people. Can be installed directly on ground or can be assembled on terrace or RCC floors too.

Construction Material  
Structure = Bamboo  
Floor = Bamboo  
Roof = Bamboo

Price: 3,80,000 INR



Floor Plan



perspective view



Right-Side View



Back View



Left-side View



UCP001

## GAZEBO-01



A Bamboo Gazebo for outdoor retreat.  
with Built-up Area of 50 sft to transform your boring outdoor into a comfortable and affordable entertainment.

It is suitable for outdoor dining or casual sit-out or romantic getaways.

It can house 6 to 8 people .

Now enjoy outdoor dining even when the sun is baking or clouds roll in. The white curtain drapes help to diffuse sunlight and add drama.

You can also add chandeliers for nighttime dining.

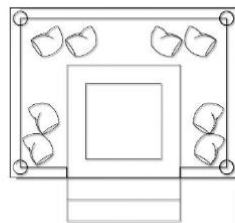
Construction Material

Structure = Bamboo

Floor = Bamboo

Roof = Straw

Price= 90,000 INR



Floor Plan



Front View



Right-Side View



Back View



Left-side View



## II. DSRL:

It is a start-up initiated by the Incubation Cell GUIST, involving a group of students, alumni, and teachers:



### **ABOUT US**

A team of Scientists, Researchers, Engineers, and Management professionals passionate about exploring frontiers in different dimensions and producing utility desired products for the masses. DSRL is the brand name for Da'Spatio Rhotique Laboratory Pvt. Ltd with CIN U72502AS2021PTC021388, which is a deep tech startup for developing autonomous systems and other technologies.

The spirit of innovation and deep rooted patriotism go hand in hand among us in order to find answers and provide solutions to real time problems of the nation.

DSRL hopes to solve some of the burning problems of humanity that has for long time disturbed the peace of the mankind as well as our nation and has hindered its economic growth. Thus, with a strong vision it will continue to usher with technological breakthroughs to solve societal problems. DSRL hopes to align likeminded passionate people from the academia nationally and globally, which will not only stop the brain drain, but also usher a new dawn towards an advanced nation.

### **MISSION**

- To niche robots on the planet to heal and liberate humanity from its sufferings
- To establish robust health, sustainable living through the practice of technology
- To create a new order to tune with nature's grand design.

### **VISION**

Our vision is to create a close-knit passionate pool of individuals and align its forces for the collective good of all the living beings on the planet through science and technology.

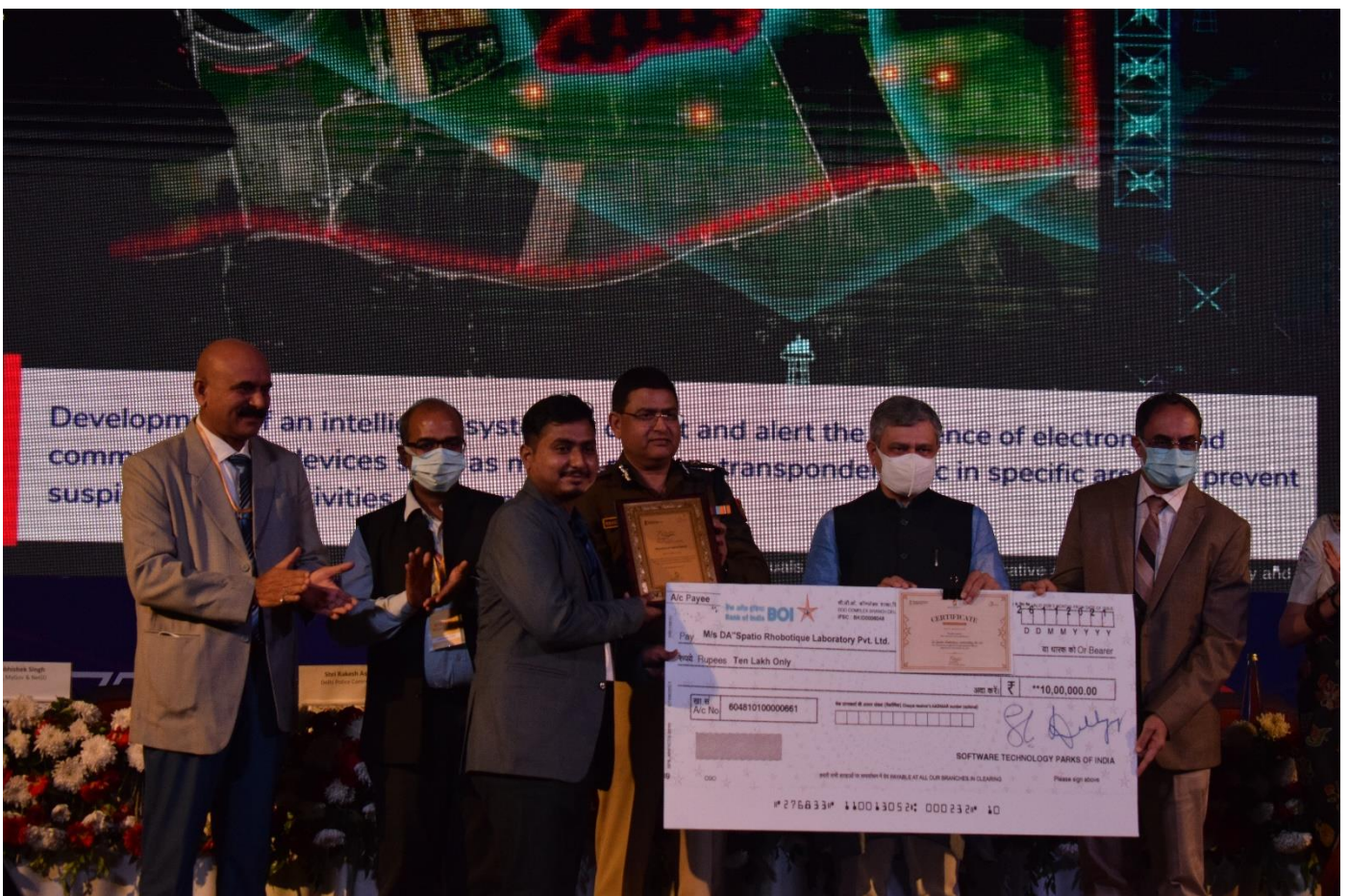
### **OUR PRODUCTS**



## 1. Ground Penetrating RADAR

Ground penetrating radar (commonly called GPR) is a high resolution electromagnetic technique that is designed primarily to investigate the shallow subsurface of the earth, building materials, and roads and bridges.

Our GPR is specifically designed to suit the needs of the Border Security Force.



"Azadi ka Amrit Mahtosav" organised by Government of India, and awarded by the Hon'ble Minister of Electronics and IT, Shri Aswini Vaishnaw; Border Security Force; Rakesh Asthana, Delhi Commissioner of Police; Ajay Prakash Sawhney, Secretary; Bhuvnesh Kumar Jt. Secretary to MoS, Gov. of India; Nirvuti Rai, Country head Intel.



## 2. WELLNESS AND HYGIENE

ZAPMINI: PORTABLE UVC SYSTEM with a range efficient enough to disinfect a normal room of size 12ft\*12ft at one go, making it applicable for clinics, offices, rooms, households, institutions, etc.

NEELKANTH MANUAL: Portable UV system that can be used in large spaces to disinfect surface microbes. It can be maneuvered by a human operator, protected inside a transparent cabin.

The system is highly useful for Airplanes, Railways, Public transportation, Industries, etc.

ZAPMACH: Portable and rechargeable UVC SYSTEM with suction fans to quickly disinfect the air and surface inside Ambulances, Airplanes, vehicles, etc.

TANK 254: It is similar to a biosafety chamber that can be used to disinfect goods in presence of human.

NEELKANTH: is a disinfection robot that is highly powerful and has a very high dosage and range, specially designed for large halls, Operation Theatres, Quarantine centres, etc. It has two product lines one which is a wheeled mobile robot and the other a trolley to be pushed manually. The robot and the trolley is designed as per customer needs and constraints. It has a lot of advanced features and is designed as per international standards at an unmatched price and high quality.

### NEELAKANTH DISINFECTANT ROBOT FROM DSRL



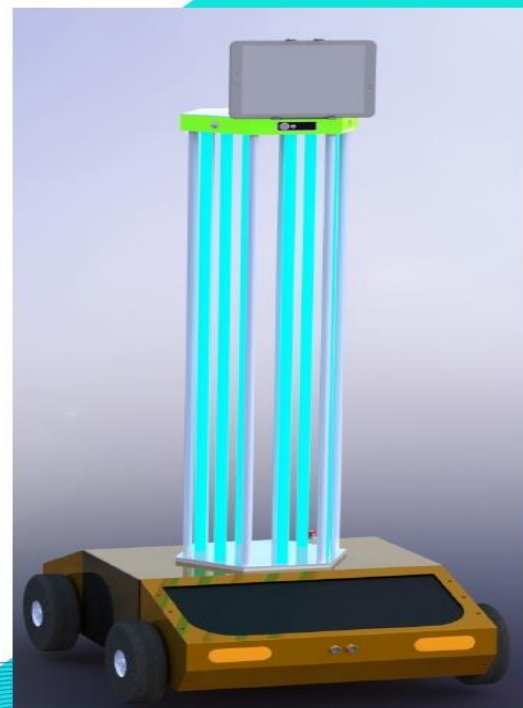
DSRL's 'Nilakanth' is capable of disinfecting wide range of surface as well as airborne virus, bacteria and microorganisms in a large area at the rate of 4.5 cubic metre per 20s . High intensity ultraviolet radiation is emitted in all directions to deactivate the pathogens by decomposing their DNA structures with an efficiency of 99.99%.

#### Prime features

- Wireless control with a friendly user interface and visual output
- Semi-autonomous equipped with human safety sensors
- 360 degree coverage for safe & efficient disinfection
- User interface works as search engine
- Works as portable/mobile video-conferencing solution.

Video link: <https://youtu.be/hTf1WXj7YzY>

Website: [dsrl.tech](http://dsrl.tech)  
Contact: 9678380817



Incubated by



Made in India

# ZAPMAC

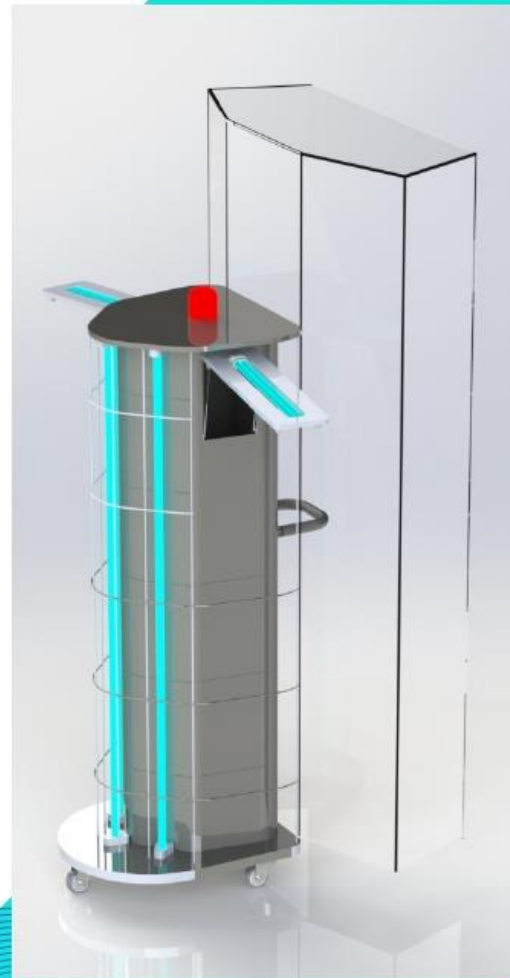
## DISINFECTANT TROLLEY FROM DSRL



DSRL's 'ZAPMAC' is a portable UV system that can be used in large spaces to disinfect surface microbes. It can be maneuvered by a human operator, protected inside a transparent cabin. The system is highly useful for Airplanes, Railways, Public transportation, Industries, etc.

### Prime features

- Wireless switching with remote control
- Adaptive Telescoping wings
- 360 degree coverage for safe & efficient disinfection
- High maneuverability in tight spaces
- Protective cabin for human operator
- Wheel caster with braking mechanism.



Website: [dsrl.tech](http://dsrl.tech)  
Contact: 9678380817

Incubated by



Made in India

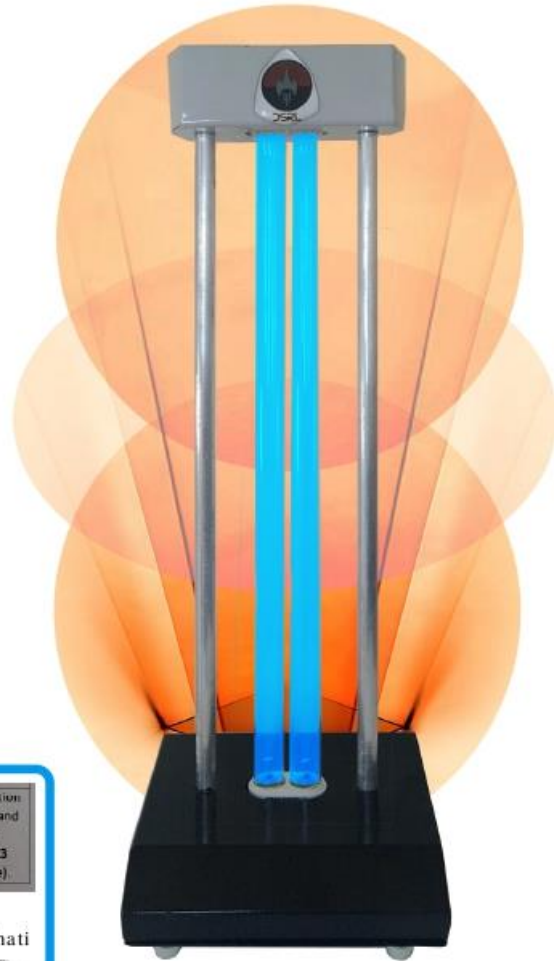
# 'ZAPMINI'

UV Disinfectant lamp from  
DSRL



## THE ULTIMATE WEAPON AGAINST CORONA VIRUS

DSRL's 'Zap mini' destroys harmful Viruses, Bacteria and other harmful micro organisms by breaking down their DNA structure with the help of UVC light. The lamp when lit for 1 minute, deactivates the virus within a range of 6 meter effectively. It comes with a beautiful wireless remote which can be operated from a range of 20 meters so as to protect the operator from harmful UV rays. An app is also made which comes with added features compared to the remote and the customer has the freedom to choose between the two. This piece of art will not only keep you and your loved ones safe from the virus but also add aesthetic beauty to your room with its futuristic light.



Z1-Z3	Virus kept in range of 5m, 4m, 3m under the exposure of 36watt UVC lamp in an exposure time of 60sec respectively on individual basis	No DNA degradation observed for Z1 and Z2, DNA well degraded for Z3 (1min exposure).
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\*Z3 marks the coverage area of 6m dia for Zapmini.  
Please refer to Annexure for test results performed at Guwahati Biotech Park, IIT-G and verified by Gauhati University(IST), Bioengineering & Technology department

Video URL: [https://youtu.be/lktGuCd\\_T64](https://youtu.be/lktGuCd_T64)

Website: [dsrl.tech](http://dsrl.tech)  
Contact: 9678380817

Incubated by



GUIST-IIC

Made in India



# TANK 254

## DISINFECTANT CHAMBER FROM DSRL



DSRL's 'Tank 254' is capable of disinfecting wide range of virus, bacteria and microorganisms on various objects. This is done by degrading the DNA of the germs with high intensity UVC radiation. Within a span of 30 seconds the deactivation of the virus takes place.

The objects placed inside undergoes 360 degree sanitation with the help of a specially designed mount. It also has slabs for placing small things like mobile, keys, etc. With the help of wheels placed below, it can be transferred easily like a trolley.



C1-C3	Virus kept in range of 1m under the exposure of 16watt UVC lamp inside the chamber in an exposure time of 15sec (with reflector), 15sec (without reflector) and 60sec (without reflector) respectively on individual basis	DNA degradation observed, with most degradation in C1
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\*C1-C3: Different test samples under different conditions. Can achieve > log 3 reduction (FDA/WHO specification desired) in 1-3 min, depending on the surface & microbe.

Please refer to Annexure for test results performed at Guwahati Biotech Park, IIT-G and verified by Gauhati University (IST), Bioengineering & Technology department

Website: [dsrl.tech](http://dsrl.tech)  
Contact: 9678380817

Incubated by



Made in India

### AWARDS & ACHIEVEMENTS

- India's top 30 in DRDO robotics competition (represented N.E India).
- India's top 100 in KPIT sparkle competition for future mobility and energy (out of 22000+ participants) 1st prize in Startup India Yatra
- Finalist DRDO Kalam Dare to Dream 2019, Section Robotics and AI
- Top 600 globally in International start-up challenge by Singapore Govt.
- Selected in International Science Festival, Kolkata.
- Selected in top 50 in TiECON Kolkata Selected for Defexpo
- Awarded MASI by Assam Govt.
- Incubated at Assam Startup Presently incubated at IIMCIP



- Top 50 NERES by IIE Guwahati and Northeastern Council
- Principal Investigator at ASTEC (DST funded project), Assam
- Awarded Meity EIR fellowship
- Semi-finalist at Swadeshi Microprocessor Challenge, MeitY
- Top 3 in BSF Bhumi, 2021, and Project commissioned, MoA signed.



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 MASI: ASP/KMP/SP/00063

## Startup Profile

### **Awards & Achievements**

- India's top 30 in DRDO robotics competition (represented N.E India).
- India's top 100 in KPIT sparkle competition for future mobility and energy (out of 22000+ participants)
- 1st prize in Startup India Yatra
- Finalist DRDO Kalam Dare to Dream 2019, Section Robotics and AI
- Top 600 globally in International start-up challenge by Singapore Govt.
- Selected in top 8 in OIL start-up scheme.
- Selected in International Science Festival, Kolkata.
- Selected in top 50 in TiECON Kolkata
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- Awarded MASI by Assam Govt.
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- Principal Investigator at ASTEC(DST funded project), Assam
- Awarded Meity EIR fellowship
- Selected at AWE, a cohort by White house led entrepreneurship program, US department of women

*In response to Covid 19 the innovations done by us, we have been selected by Government of India and UN twice, consecutively:*

- Top 20 Samadhan (hackathon for Covid 19) by MHRD(G.O.I)
- Top 10 ideathon (hackathon for Covid 19) by AICTE,MHRD(G.O.I)

## AWARDS IN RESPONSE TO COVID 19 THE INNOVATIONS DONE BY US:

- Top 20 Samadhan (hackathon for Covid 19) by MHRD(G.O.I)
- Top 10 ideathon (hackathon for Covid 19) by AICTE, MHRD(G.O.I)
- Selected by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany
- Selected at AWE, a cohort by White house led entrepreneurship program, US department of women.



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MASI: ASP/KMP/SP/00063

### Startup Profile

#### Incubated by



MASI: ASP/KMP/SP/00063

#### Fellow



### Team

Arnab Kr. Barman  
Founder & Principal Investigator, DSRL  
Fellow, MeitY

Abdur R. Fayjie  
AI & Sensors lead, DSRL  
Doctoral Student, K.U Leuven , Belgium

Kishalay Chakraborty  
Electronics & Power Systems lead, DSRL  
Doctoral Student, Gifu University, Japan

Kaustabh K. Deka  
CAD and Analysis lead, DSRL

Pankhi Kashyap  
Embedded system, DSRL

Hriday J. Ojha  
Operations, DSRL

Niharika Barman  
Biotech, DSRL

Dr. Eeshankur Saikia  
Academic Consultant  
Professor, Gauhati University

Kishore Kashyap  
Academic Consultant  
Assistant Professor, Gauhati University

# Media coverage



গুৱাহাটী বিশ্ববিদ্যালয়ত 'অভ্যুদ্ভাবিক' ৰবট মুকাৰ্ণ

Published on 30 Dec 2020, 7:37 pm IST



গুৱাহাটী বিশ্ববিদ্যালয়ৰ বিজ্ঞান আৰু প্ৰযুক্তিবিদ্যা শাখাৰ সহকাৰকৰ্তা আনুৱৰ্তকভাৱে এই সফুল্য তিনিবিধ মুকাৰ্ণ কৰা হৈছে। নিউজ, টেলিভিছন আৰু ইণ্টাৰনেটত ইয়াৰ উল্লেখ কৰা হৈছে। গুৱাহাটী বিশ্ববিদ্যালয়ৰ প্ৰযুক্তিবিদ্যা শাখাৰ সহকাৰকৰ্তা আনুৱৰ্তকভাৱে এই সফুল্য তিনিবিধ মুকাৰ্ণ কৰা হৈছে। নিউজ, টেলিভিছন আৰু ইণ্টাৰনেটত ইয়াৰ উল্লেখ কৰা হৈছে।

## Product launch event organised at GU

STAFF REPORTER

GUWAHATI, Dec 30: Gauhati University Vice-Chancellor Prof Pratap Jyoti Handique inaugurated a product launch event at the GUIST Building today.

Hosted by Prof Manoh Deka, Director GUIST, the programme exhibited three accomplished surface microbial disinfecting gadgets developed by the Innovation Cell of the institute in collaboration with DSRL, a startup formed by GU alumnus Anshu Barman and his team.

The performance of the three products has been tested in the laboratories of the Biotech Park, IIT Guwahati, and validated by Dr Debajit Bishtya, Head of the Department of Bioprocessing and Technology, Gauhati University.

The products - Nilokanth, a state-of-the-art smart robot with 5-in-1 features apart from the proven disinfecting capabilities; Zapsini, a remote-controlled UVC light and Tank 254, a rotating UVC chamber - have been proven effective against a DNA virus named Lambda Phage, which happens to be much more complex than the structural configuration of the coronavirus.

While Nilokanth is going to be most effective for sanitising big complexes such as cinema halls, shopping malls, commercial complexes, office spaces, restaurants, academic institutions, hospitals, airplanes, trains, etc., Zapsini and Tank 254 would prove to be quite handy for individual households, shop owners, clinics, goods and passenger carriers, cars, etc.

"The path-breaking modelling done in deciding on the UVC dose to be used in these products and the design specifications enable them to disinfect surfaces in only about one minute up to a distance of 3 metres. This may get extended to five metres in case of bacterial or other microbial disinfection. The R&D team responsible for these creations includes students, alumni, research scholars and faculty members from Gauhati University, who, in a collaborative effort produced the finished products in about nine months," a GU statement said.

### Links

- <https://www.etvbharat.com/assamese/assam/state/kamrup-metropolitan/robot-launched-at-guwahati-university-by-ex-student/assam20201230193721035>
- <https://www.youtube.com/watch?v=ENzI2enZ0dQ>
- <https://youtu.be/HNQJFCZQW>
- <http://www.assamtribune.com/scripts/sp.asp?id=2020/dec3120/BigPage5.jpg>
- <http://www.newsassam.com/node/14282>
- <https://www.etvbharat.com/assamese/assam/state/kamrup-metropolitan/robot-launched-at-guwahati-university-by-ex-student/assam20201230193721035>



"I am grateful to Government of Assam, Industries & Commerce department, and Assam Startup for awarding us with the MASI grant. We worked without a pause during the pandemic to innovate product solutions to counter the current crisis, three of which – Neelkanth, ZapMini, and Tank 254 – have been launched recently. Senior scientists from the US have also endorsed our products."

- Arnab Barman  
Founder, Defence & Space Robotics Laboratory



## How this tech startup from Assam is changing lives with innovative robotics solutions

26-year-old Arnab Barman hopes to take the technology culture to even greater heights by "creating more advanced robots that celebrate scientific mindset and technology"

Pritisha Borthakur

Published on : 20 Dec, 2020 , 4:45 pm



Technology and innovation are two sides of a coin. Together, they represent an ever-growing industry, and are responsible for revolutionising the way we do things and view the world. Technology has influenced cultures and lifestyles in no small measure. Even societal processes and the business world have felt the impact of its wand. Today, it has become the backbone of every sector about human existence. Several innovators and founders have taken up the baton to lead the change and pioneer the revolution we see in this technological age.

Riding on this new reality, 26-year-old tech enthusiast, Arnab Barman founded the Defense and Space Robotics Laboratory (DSRL). Barman and his team of engineers are leaders in the field of robotics and automation. With several game-changing ideas and innovations, Barman has been able to raise the bar in areas like space robotics, robots in defence, robots in healthcare, service robots, agricultural automation, and robots for disaster reasons and crisis management.

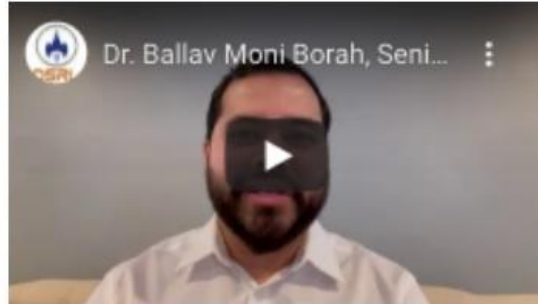


## Endorsements



<https://youtu.be/G-25e91bEc8>

**Mr Caustoooh Kashyap Bezbaruah,  
Senior Scientist, Texas Instruments,  
US.**



<https://youtu.be/mlG4MFJTQtk>

**Dr. Ballav Moni Borah, Senior  
Scientist, Abbott Rapid Diagnostics,  
Auburn, New York, US**

## LittleMachines Private Limited

CIN: U31900AS2018PTC018643

Registered Address: House#23, Solapara, Opp Landmark Hotel, B.Barooah Road  
Ulubari Guwahati, Kamrup(M), Assam, India, PIN:781007

Phone: 9101228085/8638724878 e-mail: littlemachines\_ceo@zoho.com



## WHO WE ARE?

With over a dozen brands operating for over 20 years, digital tele pathology is still a very small segment. This is largely due to its high-cost and resource in implementing such systems. We at LittleMachines, have a combination of hardware and software ecosystem that will be affordable and saleable for the 85 per cent of India's small to medium sized diagnostic labs of which there are around 150,000 across the nation. Our software ecosystem is based on Open source and is resource-light with basic features conduct pathology scan, view/edit the image, share and also hold LIVE conference for second opinion, all without having to transport the sample from one place to another. Our digital slide scanner will have a large built-in touch display for interacting with the device and is designed keeping in mind the fact that most Indian diagnostic lab technicians are poorly trained and would want an easy-to-use interface just like their smartphones. Image processing, networking, cloud computing, open-source technologies are being employed in this ecosystem to make the process of scanning a slide, viewing/editing the image, and sharing it online very easy and quick. Our focus would be on image processing and optimizing networking to allow large sized image files can be uploaded and download relatively quickly considering India's less than decent Internet infrastructure.

### 2016-17

Researched & Conceptualized by Ravi Chakravorty, later selected as residential cohort by 2020Startups, NY, US for acceleration for 5 Months

### 2018

Incorporated as Private Limited Company

Finalist at NRL Ideation

Winner at UDGM by IIT-GUWAHATI

### 2020

STARTUPS

.NYC

### 2017

Ideated & initial hardware development by Ravi Chakravorty, Tech head, later joined by Krishnanga Kalita as co-founder

Developed the Proof-of Concept Prototype

FINALIST at Nation Biotechnology Entrepreneurship Competition





## 2020

Received NIDHI-EIR (Entrepreneur in Residence) financial support by Department of Science & Tech, Govt. of India via Venture Capitals

Selected as Top 20 Start-up at TIE Kolkata

Recognised as Start-Up by the Govt. of Assam under Assam Start-up Policy

Runners-Up in Start-up India Yatra

Received 5Lakhs Proof-Of-Concept (PoC) Grant by Assam Govt.

## 2022

Selected as Residential Start-Up at MedTech CoE, Sanjay Gandhi Postgraduate Institute of Medical Sciences for development of MVP version of MICROCAM



## 2019

Recognised as a start up by the Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India

Incubated Under IIMCIP, Kolkata & Assam Start-up under Assam Start-up Policy



## 2021

Co-Developed the Preliminary Production Report with Predictable Designs LLC, USA

Applied for Provisional Patent

Developed a semi-working look-alike prototype

Increased company's authorized share capital

Dr. Jeet Patwari, joined in as third co-founder & Chief Finance Officer



Dr. Indrajit Kalita, Head of Department, Dept. of Pathology, Apollo Hospitals joined in as Chief Scientific Advisor



**1. Challenged faced:**

An ambient atmosphere in the campus to enable incubate innovative ideas leading to products and services. Even some guidance, hand-holding and liaising with industries and concerned govt agencies for product validation, certification, and scaling up may help the innovative minds.

**2. Facilities Expected for Initiating Startup & Innovation Centre:**

An integrated set-up in the campus which will not only facilitate state-of-the-art design and fabrication of a gadget using latest tools and platforms, but also help in connecting with prospective business collaborators, certifying agencies, corporate houses, and foreign collaborators, through adequate technical, administrative, and financial hand-holding and conducive eco system.

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## Report of the Intellectual Property Right (IPR) Cell, Gauhati University

(Period of Report: April, 2020 to March 2021)

Intellectual Property Right Cell of Gauhati University (GUIPR Cell) was established in 2009 with the help of Assam Science Technology and Environment Council (ASTEC) to promote human resource of Gauhati University by providing assistance in various activities of Intellectual Property Right management. The activities of this cell are supported by ASTEC and the Department of Science and Technology (DST), GOI. The objective of this IPR cell is to create awareness and provide guidance to all the members of Gauhati University and students on various issues related to IPR. Since its inception, this IPR cell is working to create understanding among the faculties, staff and students of this university and affiliated colleges about various forms of IPR such as Patents, Copyrights, Trademark, Geographical Indications, Plant Varieties etc. This Cell has a provision of legal counsel with the help of the Patent Information Center, ASTEC Guwahati in terms of IP issues and policy matters to all the members within the institute. This cell also organizes workshop, lecture programmes for creating awareness among the members of the University.

### Patent Filled during this period

	Name of Faculty	Title of invention	Indian / International	Application No & Date of Filing
1.	<p>Prof. Mohan Chandra Kalita and Rantumoni Sharma (Dept. of Biotechnology)</p> <p><u>Inventors from other Institutes</u></p> <p>Dr. N. C. Talukdar, BhaswatiKashyap, SimantaBharadwaj, Sagar Barge, BarshaDeka, Yunus Sheikh, Seydur Rahman, AparajitaGhoah, ParthaPratim Dutta, RaghuramKandimalla, Dr. Jagat C. Borah, DeepsikhaSwargiary (IASST, Guwahati)</p> <p>Dr. Sanjay K. Benerjee (Translational Health Science Institute, Faridabad)</p>	<p>A herbal composition from Premnaerbacea, useful for prevention of obesity and type 2 diabetes and a method for its extraction.</p> <p>International patent no: WO 2020/115767 A1</p> <p>Date of publishing: 11 June 2020</p>	International	<p>WO 2020/115767 A1</p> <p>Date: 11.06.2020</p>
2.	<p>Mr. Kumaresh Sarmah, Mr. Sivaranjan Goswami, Ms. Angana Sarma, (Dept. of Electronics and Communication Technology),</p>	<p>ZnS Nano particle thin film deposited metamaterial antenna for notch</p>	International	<p>PCT/IN2020/000020</p> <p>Date :29.09.2020</p>

	Prof. Kandarpa Kumar Sarma (Dept. of Electronics and Communication Engineering) <u>Inventors from other Institutes</u> Prof. Sunandan Baruah (Don Bosco University)	frequency application		
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## Patent Granted during this period

	Name of inventors	Title of Invention	Indian / International	Patent No and Grant Date
1.	Dr. Prodeep Phukan, Mr. Subhasish Roy, Mr. Manas Jyoti Sarma, Mr. Bishwapran Kashyap, (Dept. of Chemistry)	A copper catalyst for C- N and C-S bond forming reactions and process for its manufacture	Indian	Patent No. 336241 Dated 16.11.2015 Date of Grant 29.04.2020
2.	Dr. Bimal Kumar Sarma, Mr. Pradhyut Rajkumar, Mr. Bikash Sarma (Dept of Physics)	An improved azo sputtering target for manufacturing transparent conducting film and the method thereof	Indian	Patent No. 339332 Dated 19.06.2018 Date of Grant 25.06.2020
3.	Ms. Novonita Baruah, Dr. Alak Chandra Deka, Prof. M.C. Kalita, (Dept. of Biotechnology) Prof. J.C. Kalita (Dept. of Zoology)	Bioformulation of penicillium purpurogenum and process for preparation thereof	Indian	Patent No. 347214 dated 30.03.2011 Date of Grant: 21.09.2020

## Workshop / Lecture programs organized by the cell

A Short Term Programme (ONLINE) on “Intellectual Property Rights” was organized by IPR Cell, GU in collaboration with UGC-Human Resource Development Center (HRDC) of Gauhati University, and Patent Information Centre (PIC) of ASTEC Govt. of Assam during February 1-7, 2021. The programme was held in line with the objectives of the Department of Science and Technology (DST) New Delhi for one-week ( 6-working days) duration with 4-interactive sessions per day in an online, direct communication mode. The aim of this event was to sensitize the participants about Intellectual Property and share about the information related to IPR (such as Copyrights, Patents, Geographical Indicator, Trademark, Industrial design Trade Secrete etc.), Traditional Knowledge, Research ethics and related issues. The target participants are the teachers and officials of the colleges, universities, innovators, researchers and students. About 70 participants, all are from different colleges and universities from across the nation have participated the course. Resource Persons across the country as well as from abroad have delivered lectures and interacted with the participants during the course. Eminent personalities like Prof. Raj S. Dave (President, Davé Law Group, LLC, Virginia, USA, Chair Professor, Gujarat National Law University, & Chairman, Experts Group on Patent Facilitation Programme, DST, Govt. of India), Prof. Prabudha Ganguli (CEO, VISON-IPR, Visiting Professor, IIT Kharagpur, & IIT, Jodhpur Consultant to the World Intellectual Property Organization for IPR capacity building), Dr. Yashawant Dev Panwar (Scientist-F & Head PFC-TIFAC, DST, Govt. of India, New Delhi), Shri Chinnaraja G. Naidu (Deputy Registrar of Geographical Indications, Intellectual Property Office Building, G.S.T Road, Guindy, Chennai – 600 032), Dr. Vinay Thakur (IP Attorney, Cantor Colburn LLP, Hartford, CT 06103, USA), Dr. V. Sattigeri (Head, CSIR-Traditional Knowledge Digital Library Unit, New Delhi) and many others delivered lectures and interacted with the participants.

Prof. Prodeep Phukan  
Coordinator-GU IPR Cell  
Gauhhati University



Prof. Prodeep Phukan (Coordinator, GU-IPR cell), Dr. Arup Misra (Director, ASTEC, Assam) and Dr. Shyamanta Chakraborty (Director (i/c), UGC-HRDC, GU) during the Inauguration Ceremony of the Short Term Programme



Prof. Prodeep Phukan, Coordinator, GU-IPR cell, Dr. Mausumi Borthakur (Chief Consultant, Neurophysiology & Clinical Epilepsy GNRC Hospitals, North Guwahati) and Dr. Shyamanta Chakraborty (Director (i/c), UGC-HRDC, GU) during the Valedictory Function of the Short Term Programme



## Intellectual Property Right (IPR) Cell, Gauhati University

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Workshop / Lecture programs organized by the cell

### Faculty Development Programme On “INTELLECTUAL PROPERTY RIGHTS AND ENTREPRENEURSHIP DEVELOPMENT” during April 20-26, 2022

The Gauhati University IPR Cell and IQAC-GU organized a **Faculty Development Programme** on “**Intellectual Property Rights and Entrepreneurship Development**” during **20-26 April, 2022** in collaboration with Patent Information Centre, ASTEC, Govt. of Assam. The Programme was organized in hybrid mode (both Online and Offline mode) and of one-week duration with 4-interactive sessions per day, direct communication mode. The Programme is basically designed for the teachers of Universities, Colleges, and Schools to create opportunity to learn and interact on the topic which is very important in the current scenario of globalization. However, this course was kept open to individuals from any other academic or research institutes and disciplines. The aim of this event was to sensitize the participants about Intellectual Property and share about the information related to IPR (such as *Copyrights, Patents, Geographical Indicator, Trademark, Industrial design Trade Secrete* etc.), Traditional Knowledge, Research ethics and related issues. Resources persons across the country as well as from abroad are joining to deliver lectures and interact with the participants during the course. As a part of the programme another special event was organized to celebrate the World IP day on 26th April, 2022.

#### Speakers of the FDP

Sl. No.	Name	Address
1	Dr Sanjeev Kumar Majumdar	Manager (IP) National Research Development Corporation 20-22, Zamroodpur Community Centre Kailash Colony Extn. New Delhi - 110048
2	Mr. Achintya Kumar Baruah	Chief Programme Coordinator Indian institute of Entrepreneurship, Guwahati
3	Dr. Bula Choudhury	Senior Scientist, Guwahati Biotech Park North Guwahati
4	Dr. H. Purushotham	DPIIT-IPR Chair Professor at Andhra University Visakhapatnam and Former CMD, NRDC
5	Mr. Chinnaraja G Naidu	Deputy Registrar of Geographical Indications, Intellectual Property Office Building,

		G.S.T Road, Guindy, Chennai – 600 032
6	Mr. Sudip Jyoti Sahu	Deputy Controller of Patents & Designs, Patent Office, Kolkata
7	Ms. Dipamoni Baishya	Project Scientist, PIC, ASTEC
8	Dr. Jupi Gogoi	Associate Professor National Law Univ and Judicial Academy, Assam
9	Dr. (Mrs.) Viswajanani J Sattigeri	Head, CSIR-Traditional Knowledge Digital Library Unit 14, Satsang Vihar Marg, New Delhi - 110 067
10	Prof. Sanjay Kumar Singh	Department of Library and Information Science, Gauhati University
11	Dr. Rajib Lochan Goswami	Sr. Principal Scientist Material Science and Technology Divn. CSIR-NEIST, Jorhat
12	Ms. Gargi Sarma	Assistant Professor Dept of Plant breeding and genetics AAU, Jorhat
13	Dr. Arindam Adhikari	Director Aonomy Speciality Polymers Private Limited, Navi Mumbai - 400614 and Adarsh Innovations, Pune-411045
14	Mr. Siddhartha Debnath	Patent Information Center ASTEC, Guwahati
15	Dr. Sachindra Patil	Director, Kanashi Biotech Pvt Ltd H-Block, MIDC, Pimpri, Pune-411018
16	Dr. Sanjib Kr Paul	Scientist, Business Development and Research Management CSIR-IICT, Hyderabad
17	Mr. Surajit Roy	Project Officer Finance and Accounts Section; Project Cell Gauhati University
18	Dr. Ranjit Kumar Barman	Former Head, S&T Division, ASTEC
19	Dr. Hemen Kumar Kalita	Assistant Professor Department of Physics, Gauhati University

## **Celebration of World IP Day 2022**

### **PIC-ASTEC and Gauhati University IPR Cell to felicitate patentees on World IP Day 2022**

The Gauhati University Intellectual Property Right Cell (GUIPR-Cell) and Patent Information Centre-ASTEC (PIC-ASTEC) would celebrate the “World Intellectual Property Day 2022” on 26<sup>th</sup> April, 2022 at Gauhati University. The World IP Day event was established by the World

Intellectual Property Organization (WIPO) in 2000 to raise awareness of how patents, copyright, trademarks and designs impact on daily life and to celebrate creativity, and the contribution made by creators and innovators to the development of societies across the globe. This year, the World IP Day theme is “*IP and Youth: Innovating for a Better Future*”. In this event, the participants shall be students, faculty, young innovators and other distinguished people from various places of the country. The event would also be streamed live. This year, for the first time in the history, the state inventors who had received patent grant in the year 2021-22 with the support of PIC-ASTEC, would be felicitated to recognize their innovative work and contribution to the society and also to showcase their achievement in the common platform. The event would be presided over by the Hon’ble Vice Chancellor of Gauhati University Prof. P. J. Handique as the Chief Guest and Smt. Kimnei Changsan, ACS, Director-ASTEC as the Guest of Honour along with the other dignitaries. The event would also mark the end of the ongoing national level Faculty Development Programme on “Intellectual Property Rights and Entrepreneurship Development” being organized by the GUIPR-Cell and IQAC of Gauhati University in collaboration with PIC-ASTEC since 20<sup>th</sup> April, 2022.

#### LIST OF PATENTEES FOR FELICITATION AT WORLD IP DAY 2022

Sl. No.	Name	Address	Contact	Granted IPR
1.	Dharmananda Bormudoi	P.O. Ellengi Satra, Vill. Balitika, Gohpur, Dist- Sonitpur, Pin- 784168, Assam	9365026232 dharmanandaa7@gmail.com	Patent No.388073; <i>Sediment Return Ground Based Multi-Stage Water Filter</i> ; Grant- 31/01/2022
2.	Manoj Kr. Das	Abhaypur, Hajo, Dist.-Kamrup, Assam, Pin-781102	8474824531 manojkd75@rediffmail.com	Patent No.384647; <i>Concreting Over Bamboo Splits</i> ; Grant- 20/12/2021
3.	Bornali Phukan & Debaprasad Hazarika	Arya Nagar, Behind Arya Vidyapeeth College, Guwahati, Assam, Pin-781016	9864092040 debaprasad_hazarika@yahoo.com	Patent No.384540; <i>Gravity And Buoyancy Actuated Reciprocating Power Generating System</i> ; Grant- 17/12/2021
4.	Ranjit Chetia	Vill No. 1, Tengahula,	9435488515 ranjitagrootech@gmail.com	Patent No.376603; Nag

		Sarupathar, Dist- Golaghat, Assam, Pin -785601		<i>King Chilli Dryer</i> Grant- 07/09/2021
5.	Manoj Kr. Das	Abhaypur, Hajo, Dist.-Kamrup, Assam, Pin-781102	8474824531 manojkd75 @rediffmail.com	Patent No.373964; <i>Bamboo Reinforced Cement Concreting</i> Grant -06/08/2021



**Professor Sudeshna Bhattacharjya**, HoD, Department of Sanskrit, Gauhati University is a Mentor of IKS, National Body- <https://iksindia.org/expert-list.php>

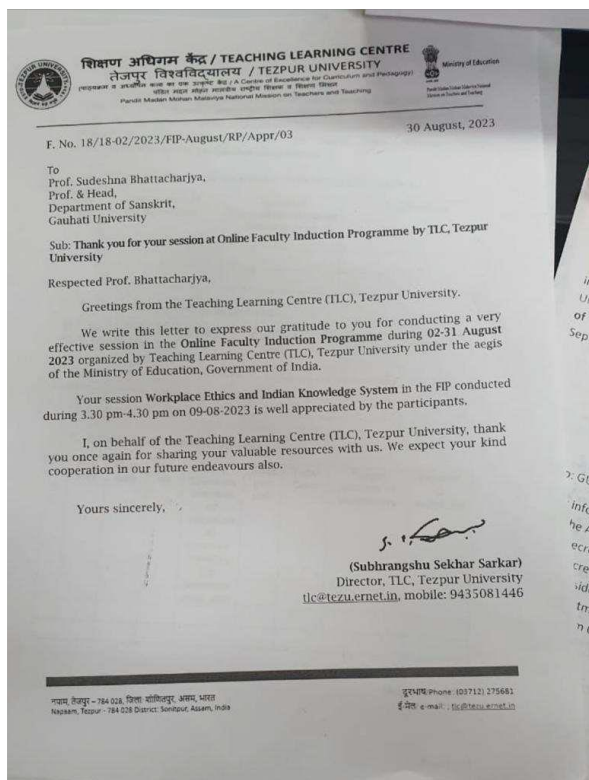


On the list- <https://iksindia.org/iks-internship.php>, she has two projects under her mentorship, viz., "Folk culture and Folk lore of Assam" and "Amalgamation of Seminal Ideas Reflected in the Ancient Indian Shastras as the Principal Ingredients of the Course Material for Mass communication & Journalism, for Political Science & Public Administration, for Psychology ,Holistic Lifestyle & Stress Management and for Botanical Study & Gardening in connection with NEP,2020 : Making of an Indic Curriculum in Graduation Level."

9	Folk culture and Folk lore of Assam	Sudeshna Bhattacharjya	Honourary Vice President, SERF; Professor, Dept of Sanskrit, Gauhati University, Assam
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56	<p>Amalgamation of Seminal Ideas Reflected in the Ancient Indian Shastras as the Principal Ingredients of the Course Material for Mass communication &amp; Journalism, for Political Science &amp; Public Administration, for Psychology, Holistic Lifestyle &amp; Stress Management and for Botanical Study &amp; Gardening in connection with NEP, 2020: Making of an Indic Curriculum in Graduation Level.</p>	Prof. Sudeshna Bhattacharya	Shankardev Education and Research Foundation
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Professor Sudeshna Bhattacharjya has delivered **more than 20 lectures on IKS** on different institutions.





**UGC-HUMAN RESOURCE DEVELOPMENT CENTRE**  
**GAUHATI UNIVERSITY: GUWAHATI – 781 014**



**Faculty Induction Programme (FIP-08)**  
**(From 13 September to 13 October, 2023)**  
**(Blended Mode)**

From :  
Prof. Shyamanta Chakroborty &  
Dr Tabassum Rizvi  
HRDC, Gauhati University, Guwahati – 781 014  
Course Coordinators  
e-mail: [hrdcgu@gauhati.ac.in](mailto:hrdcgu@gauhati.ac.in)  
[tabassumrizvi777@gmail.com](mailto:tabassumrizvi777@gmail.com)  
Phone no: 7002612435 / 9401183684  
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To  
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**Prof. Sudeshna Bhattacharjya,**

Dear Madam,

We have the pleasure to invite you to act as a Resource Person for the UGC sponsored Faculty Induction Programme organized by UGC-HRDC, Gauhati University from 13<sup>th</sup> September to 13<sup>th</sup> October and to interact with the participants according to the following Schedule:

<b>Date</b>	<b>Time</b>	<b>Suggestive Topic</b>
20-09-2023	<b>1.30pm to 3 pm</b>	Indian Knowledge System

There are following few lines for your kind attention:

1. The participants are College/University teachers (Asst. Professor level ) across the country. You may kindly design your presentation in both content and method to suit the topic according to their needs. LCD projection facilities are available and lecture presentation material may be brought in pen drive.
2. As per the directives of University Grants' Commission, we are required to give reading materials to each of the Participants in the form of gist of lectures delivered by each Resource Person. I request you to send a brief write up of your presentation in hard copy or soft copy in advance so that it can be distributed among the participants well ahead of your session.
3. A token honorarium of Rs. 1500/- per lecture-session will be paid to the Resource Person. *As per the directive of UGC, as a part of cashless payment, Resource persons are requested to submit bank account details to the undersigned for payment through NEFT/RTGS..*
4. Your TA/DA would be admissible as per the Guidelines of UGC, HRDC (2019)
5. All Sessions will be held at the UGC-Human Resource Development Centre, Gauhati University.  
*I shall be grateful if you could kindly confirm your acceptance and send us your brief Bio-data and a summary of your Lecture at the earliest in the above mails.*

With regards,

Yours sincerely,

**Shyamanta Chakroborty**  
**Tabassum Rizvi**



**UGC-MALAVIYA MISSION TEACHER TRAINING CENTRE**  
(UGC-MM-TTC)  
(UGC-HUMAN RESOURCE DEVELOPMENT CENTRE)  
OSMANIA UNIVERSITY (NAAC WITH A+)  
HYDERABAD, TELANGANA STATE



Prof. Smita C. Pawar  
Director, UGC-MMTTC, OU &  
Dept. of Genetics & Biotechnology, OU

No. RP/MMTTC/HRDC/OU/2023

Date: 6.10.2023

**CERTIFICATE OF APPRECIATION**

This is to certify that Prof. Sudeshna Bhattacharjya, Professor and Head, Dept. of Sanskrit, Gauhati University, Assam has delivered a Lecture(s) to the Participants of the Online NEP Orientation and Sensitization Programme organized by the UGC-Malaviya Teacher Training Centre (Formerly known as Human Resource Development Centre), Osmania University, Hyderabad from 3.10.2023 to 11.10.2023 on the following topic(s) on 5<sup>th</sup> October 2023.

Topic(s):

Indian Knowledge System (Vocabulary of IKS)



  
DIRECTOR  
UGC-HRDC (Human Resource Development Centre)  
Osmania University Hyderabad 500007







Office of the Director  
UGC-UGC Malaviya Mission Teacher Training Centre,  
Manipur University (MMTTC MU)  
Canchipur, Imphal - 795003



To,  
Prof. Sudeshna Bhattacharjya  
Department of Sanskrit  
Gauhati University

Date : 4/12/2023

Subject: Request to be a resource person of the NEP – Orientation and Sensitization Program (NEP-OSP) organized by the UGC MMTTC MU during Dec. 16-30, 2023

Dear Sir/Madam,


The UGC MMTTC, MU (formerly known as UGC HRDC MU) is organizing NEP – Orientation and Sensitization Program (NEP-OSP) on the eight chosen themes of the New Education Policy during Dec. 16-30, 2023 with the undersigned as the Program Coordinator. The program will be organized in online mode.

Keeping in view your exposure to the specified themes under the NEP and expertise in the subject domain, I, as the program Coordinator would like to request you to be a resource person and deliver lecture of 90 minutes duration via power point (60 minutes presentation and 30 minutes for question and answer) on the date and time indicated below. The structure of the presentation should strictly be as per the UGC guidelines available in the [www.mmc.ugc.ac.in](http://www.mmc.ugc.ac.in) also under the HRDC portal of [www.manipuruniv.ac.in](http://www.manipuruniv.ac.in). As a resource person, you are to share the session plan and 5 MCQs with four options with the right answer with [director.hrdc@manipuruniv.ac.in](mailto:director.hrdc@manipuruniv.ac.in) and [sudhirbam4@gmail.com](mailto:sudhirbam4@gmail.com) well in advance.

Lecture Schedule			
Date	Time	Title of the Lecture	Broad Area/ Theme
26/12/2023	1pm-2.30pm		IKS-I
26/12/2023	1pm-2.30pm		IKS-II

Thanking you in anticipation,

With regards

  
Prof. H. Sudhir Kumar Singh  
[Sudhirbam4@gmail.com](mailto:Sudhirbam4@gmail.com)  
9612701275

UGC-HRDC, Manipur University, Canchipur, Imphal – 795003  
Phone No. 0385-2435136; E-mail: [director.hrdc@manipuruniv.ac.in](mailto:director.hrdc@manipuruniv.ac.in)



Office of the Director  
UGC-UGC Malaviya Mission Teacher Training Centre,  
Manipur University (MMTTC MU)  
Canchipur, Imphal - 795003



To,  
Prof. Sudeshna Bhattacharjya  
Department of Sanskrit  
Gauhati University

Date : 1/12/2023

Subject: Request to be a resource person of the NEP – Orientation and Sensitization Program (NEP-OSP) organized by the UGC MMTTC MU during Dec.4 – 15, 2023

Dear Sir/Madam,


The UGC MMTTC, MU (formerly known as UGC HRDC MU) is organizing NEP – Orientation and Sensitization Program (NEP-OSP) on the eight chosen themes of the New Education Policy during Dec. 4-15, 2023 with the undersigned as the Program Coordinator. The program will be organized in online mode.

Keeping in view your exposure to the specified themes under the NEP and expertise in the subject domain, I, as the program Coordinator would like to request you to be a resource person and deliver lecture of 90 minutes duration via power point (60 minutes presentation and 30 minutes for question and answer) on the date and time indicated below. The structure of the presentation should strictly be as per the UGC guidelines available in the [www.mmc.ugc.ac.in](http://www.mmc.ugc.ac.in) also under the HRDC portal of [www.manipuruniv.ac.in](http://www.manipuruniv.ac.in). As a resource person, you are to share the session plan and 5 MCQs with four options with the right answer with [director.hrdc@manipuruniv.ac.in](mailto:director.hrdc@manipuruniv.ac.in) and [sudhirbam4@gmail.com](mailto:sudhirbam4@gmail.com) well in advance.

Lecture Schedule			
Date	Time	Title of the Lecture	Broad Area/ Theme
9/12/2023	1pm-2.30pm		Indian Knowledge System – I
9/12/2023	3pm-4.30pm		Indian Knowledge System – II

Thanking you in anticipation,

With regards

  
Prof. H. Sudhir Kumar Singh  
[Sudhirbam4@gmail.com](mailto:Sudhirbam4@gmail.com)  
9612701275

UGC-HRDC, Manipur University, Canchipur, Imphal – 795003  
Phone No. 0385-2435136; E-mail: [director.hrdc@manipuruniv.ac.in](mailto:director.hrdc@manipuruniv.ac.in)

VACHASPATI TRIPATHI Anandan Das Ananya Roy Aoyana Buragohain Banarsi Saikia Barnali Doley Layout

Participants (46)

TEZPUR UNIV... Host, me

Sudeshna Bhatta Cohost

TLC Cohost

TLC,TU Cohost

Anandan Das

Ananya Roy

Aoyana Buragoh

Banarsi Saikia

Barnali Doley

Bhaskar Borah

Bristy Borgohain

Chandni

Mute all Unmute all

Sudeshna Bhattacharjya's scre... - 43% +

Workplace Ethics & Indian Knowledge System.

Presented by: Sudeshna Bhattacharjya, Department of Sanskrit, Gauhati University, Guwahati.

Unmute (Ctrl + M), or press and hold the Spacebar to temporarily unmute

मि.संख्या 18-33/2023(CXB Seminar)

भारत सरकार  
वैज्ञानिक तथा तकनीकी शब्दावली आयोग  
शिक्षा मंत्रालय (उच्चतर शिक्षा विभाग)  
GOVERNMENT OF INDIA  
COMMISSION FOR SCIENTIFIC & TECHNICAL TERMINOLOGY  
(Ministry of Education) Department of Higher Education

कोश./फ़. : 126105211-011  
011-20867170  
011-20867172  
वेबसाइट: www.cstt.gov.in  
[www.cstt.education.gov.in](http://www.cstt.education.gov.in)

पश्चिमी ब्लॉक VII, रामकृष्णपुरम,  
West Block VII, R. K. Puram,  
नई दिल्ली /New Delhi-110066  
दिनांक-30.08.2023

सेवा में,  
Prof.Sudeshna Bhattacharya  
Professor & Head, Dept. of Sanskrit,  
Gauhati University

विषय-दिनांक 22-23 सितम्बर 2023 को चंद्र कमल वेजवरुआ कॉलेज, टोक, जोरहाट (असम) में आयोजित होने वाली संगोष्ठी में व्याख्यान देने के संदर्भ में।

महोदय,  
आपको विदित होगा कि वैज्ञानिक तथा तकनीकी शब्दावली आयोग, भारत सरकार द्वारा विभिन्न विषयों की परिभाषित शब्दावली का निर्माण कार्य कर रहा है। आयोग अब तक अनेक विषयवार सूक्ष्म शब्द-संग्रह तथा परिभाषा-कोशों का निर्माण एवं प्रकाशन कर चुका है। आयोग द्वारा निर्मित शब्दावली /परिभाषा कोश का प्रचार-प्रसार करने तथा भीड़के प्राप्त करने के लिए संगोष्ठी/सम्मेलन/कार्यशाला/परिस्थापक कार्यक्रमों का आयोजन भी किया जाता है। ये आयोजन विभिन्न विश्वविद्यालयों/कोलेजों/तकनीकी संस्थानों आदि में किए जाते हैं। इसी उद्देश्य से चंद्र कमल वेजवरुआ कॉलेज, टोक, जोरहाट (असम) से प्राप्त प्रस्ताव के आधार पर दिनांक 22-23 सितम्बर 2023 को उक्त संस्थान में "असमिया भाषा एवं संस्कृति में तकनीकी शब्दावली" नामक विषय पर आयोग द्वारा एक संगोष्ठी का आयोजन करने का निर्णय लिया गया है। इसमें आपको व्याख्यानदाता (Resource Person) के रूप में आमंत्रित किया जाता है। संगोष्ठी के लिए पंजीकरण 22 सितम्बर 2023 को प्रातः 9:00 चंद्र कमल वेजवरुआ कॉलेज, टोक, जोरहाट (असम) में प्रारंभ होगी। अपने व्याख्यान का लिखित प्रति व्याख्यान के उपरान्त अभीहस्ताक्षरी को देने का आग्रह कर रहे हैं। तकि आयोग द्वारा UGC CARE Listed परिकल्पना गरिमा सिद्धि में प्रकाशित किया जा सके।

कार्यक्रम में भाग लेने हेतु सभी व्याख्यानदाता को मानदेय रु. 3000 प्रति व्याख्यान की दर से दिया जाएगा। बाहरी व्याख्यानदाता को यात्रा-भत्ता अधिकतम 2 दिवस ए.सी. का रैक किराया (टिकट की फोटो प्रति देने पर), हवाई जहाज का किराया दिया जाएगा। हवाई जहाज का टिकट भारत सरकार द्वारा अनुमत ट्रेवल्स एजेंसी से ही बुकिंग किया जाए जो निम्न है: (i) M/s Balmer Lawrie & Company Limited (BLCL) (ii) M/s Ashok Travels & Tours (ATT) (iii) Indian Railways Catering and Tourism Corporation Limited (IRCTC) तथा स्थानीय याहन भत्ता व दैनिक भत्ता केटीय सरकार के नियमानुसार (अधिकतम रु. 5400 के समकक्ष) प्रतिपूर्ति (Reimbursement) किया जाएगा। TA/DA व मानदेय आदि का भुगतान नियमानुसार ECS/PFMS के द्वारा कार्यालय से कार्यालय (post facto) किया जायेगा। इसके लिए निरस्त चेक (Cancelled Cheque) संलग्न करना अनिवार्य है।

संगोष्ठी से संबंधित जानकारी हेतु स्थानीय संयोजक डॉ. दीपक कुमार शर्मा, राजनीति विज्ञान विभाग, चंद्र कमल वेजवरुआ कॉलेज, टोक, जोरहाट (असम) 9854489751 पर संपर्क किया जा सकता है। पंजीकरण के समय यह पत्र कृपया प्रस्तुत करें। पंजीकरण के लिए आयोग द्वारा कोई भी शुल्क नहीं लिया जाता है।

अथदीय,  
श. शाहजद अहमद अंसारी  
सहायक निदेशक  
मोबाईल-8802469124  
Shahzadansari.cstt@gmail.com

She had also arranged for a brainstorming session on Project Proposal and Other Academic Programmes Funded by the Division of Indian Knowledge System Under Ministry of Education, Govt. of India, where the National Coordinator of IKS visited the department of Sanskrit, Gauhati University and delivered his lecture.

**Interaction & Brainstorming Session on  
Project Proposal and Other Academic Programmes  
Funded by the Division of Indian Knowledge System  
Under Ministry of Education, Govt. of India**

**Organized by  
Department of Sanskrit, Gauhati University  
In Collaboration with  
Kumar Bhaskar Varma Sanskrit & Ancient Studies University.**

**Resource Person: Prof. Ganti Suryanarayan Murthy, National Coordinator, IKS Division**

**Date: 12.09 2022 Venue: Seminar Hall, New Academic Building, Gauhati University Time: 11 am**

*Certificate of Participation*

Interaction & Brainstorming Session on Project Proposal and Other Academic Programmes  
Funded by the Division of Indian Knowledge System Under Ministry of Education, Govt. of India

**Organized by Department of Sanskrit, Gauhati University  
In Collaboration with Kumar Bhaskar Varma Sanskrit & Ancient Studies University.**

*This is to certify that Prof./ Dr./ Sri/Srimati.....  
of ..... has participated actively in the Interaction and  
Brainstorming Session organized by the Department of Sanskrit, Gauhati  
University in collaboration with Kumar Bhaskar Varma Sanskrit and Ancient  
Studies University in Seminar Hall, New Academic Building, Gauhati  
University on 12th September, 2022“We wish him/her all success in life*

Prof. Suryanarayan Murthy  
“National Coordinator“IKS Division  
“Ministry of Education“Govt of India“

Prof. Pralhad R. Joshi  
“Vice Chancellor“  
Kumar Bhaskar Varma Sanskrit and  
Ancient Studies University“

Prof. Sudeshna Bhattacharjya  
Professor & HOD, Sanskrit, G.U  
Coordinator



IPR Cell and IQAC  
GAUHATI UNIVERSITY



FACULTY DEVELOPMENT PROGRAMME  
ON  
“INTELLECTUAL PROPERTY RIGHTS  
AND  
ENTREPRENEURSHIP DEVELOPMENT”  
&  
CELEBRATION OF WORLD IP DAY

Theme

**IP and Youth: Innovating for a Better Future**

April 20-26, 2022

Organized by IPR cell and IQAC of Gauhati University  
in collaboration with  
Patent Information Centre, ASTEC, Govt. of Assam

Venue: Gauhati University

Mode: Hybrid (both online and offline)

**Organizers**

**Prof. Prodeep Phukan**  
Coordinator, GU-IPR cell  
Programme Coordinator

**Dr. Hemen Kr. Kalita**  
Asst. Professor, Physics  
Programme Joint-Coordinator



## About the program:

The Faculty Development Programme on “Intellectual Property Rights and Entrepreneurship Development” will be of one-week duration with 4-interactive sessions per day in a hybrid (both online and offline), direct communication mode. The programme is basically designed for the teachers, researchers, students and administrators of Universities, Colleges and Schools to create opportunity to learn and interact on the topic which is very important in the current scenario of globalization. However, the course is also open to individuals from any other academic or research institutes, business enterprises and disciplines as well. Resource persons across the country as well as from abroad are joining to deliver lectures and interact with the participants during the course. The event has been conceived by the Intellectual Property Right (IPR) Cell of Gauhati University and Internal Quality assurance Cell (IQAC) of Gauhati University in association with the Patent Information Centre (PIC) of ASTEC Govt. of Assam in line with the objectives of the Department of Science and Technology (DST) New Delhi.

Intellectual property rights are the rights given to persons over the creations of their minds. They usually give the creator an exclusive right over the use of his/her creation for a certain period of time. In the present context, it is utmost important to make people understand about the rights about their invention, traditional knowledge and other intellectual elements. The aim of this event is to sensitize the participants about Intellectual Property and share about the information related to IPR (such as Copyrights, Patents, Geographical Indicator, Trademark, Industrial design Trade Secrete etc.), Traditional Knowledge, Research ethics and related issues. The target participants are the teachers and officials of the Universities, innovators, researchers and students.

### Organizing Committee

Prof. P. J. Handique, Vice Chancellor, GU

Smt. Kimnei Changsan, ACS, Director ASTEC

Prof. Madhurjya P. Bora, Director, IQAC, GU

Prof. Prodeep Phukan, Coordinator, GU IPR Cell

Dr. Hemen Kr. Kalita, Dept. of Physics, GU

Dr. Jaideep Baruah, Head I/C, Science & Technology Divn., ASTEC

Dr. Bimal Kr. Sarma, Dept. of Physics, GU

Mr. Siddhartha Devnath, Scientist C, PIC-Assam, ASTEC

Dr. Manas Das, Dept. of Zoology, GU

Dr. Bulbuli Khanikor, Dept. of Zoology, GU

Chairman

Advisor

Advisor

Programme Coordinator

Programme Joint-Coordinator

Member

Member

Member

Member

Member

**Who can Apply**– Teachers, researchers and students from University, College, School; interested person, researchers, innovators and entrepreneurs from other institute/organization can apply through Online

**For details and Registration kindly visit** - <https://iqac.gauhati.ac.in/events>

### **Address for Correspondence**

**The Coordinator**

**GU-IPR Cell, Gauhati University**

**Guwahati-781014, Assam, India**

**E-mail: [guipr.cell@gauhati.ac.in](mailto:guipr.cell@gauhati.ac.in)**

**Phone: P. Phukan– 94351-11114; H. K. Kalita – 70027-56113**

# দৈনিক অসম

গুৱাহাটী আৰু ডিব্ৰুগড়ৰ প্ৰকাশিত



৭ ফ্ৰান্সফলত খেলি-মেলিৰ অভিযোগ

ছু কীক পাঁচ বছৰৰ কাৰাদণ্ড ১০



টাটাৰ গাড়ীৰ দাম আকৌ বাঢ়িল ৯

১২ মাদ্ৰিড অ'পেনত নেথেলে দ্বিয়াটেকে

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DAINIK ASAM, Guwahati, Thursday, April 28, 2022

দৈনিক অসম, গুৱাহাটী, বুধস্পতিবাৰ, ২৮ এপ্ৰিল, ২০২২

## ■ গুৱাহাটী বিশ্ববিদ্যালয়ত বিশ্ব বৌদ্ধিক সম্পদ দিবস উদ্‌যাপন ■ উদ্ভাৱনেই উন্নতিৰ মূল : উপাচার্য

মহানগৰ বাতৰি সেৱা

গুৱাহাটী, ২৭ এপ্ৰিল : গুৱাহাটী বিশ্ববিদ্যালয় বৌদ্ধিক সম্পদ অধিকাৰ কোষৰ উদ্যোগত আৰু অসম বিজ্ঞান-প্ৰযুক্তি আৰু পৰিবেশ পৰিষদ (এ এছ টি ই চি)ৰ সহযোগিতাত বিশ্ববিদ্যালয়ত কালি বিশ্ব বৌদ্ধিক সম্পদ দিবস পালন কৰা হয়। এই বৰ্ষৰ বিশ্ব বৌদ্ধিক সম্পদ দিবসৰ মূল বিষয় হৈছে, 'বৌদ্ধিক সম্পদ আৰু নৱপ্ৰজন্ম : উৎকৃষ্ট ভৱিষ্যতৰ বাবে নৱ উদ্ভাৱন'। অনুষ্ঠানৰ শুভাৰম্ভ কৰি বিশ্ববিদ্যালয়ৰ উপাচার্য অধ্যাপক ডঃ প্ৰতাপজ্যোতি সন্দিকৈয়ে ছাত্ৰ-ছাত্ৰীসকলক ন-উদ্ভাৱনৰ ক্ষেত্ৰত গুৰুত্ব দিবলৈ আহ্বান জনায়। তেওঁ কয় যে উদ্ভাৱনেই উন্নতিৰ মূল। সেয়েহে, শিক্ষাত গুৰুত্ব দি নৱ-উদ্ভাৱনৰ বাবে ছাত্ৰ-ছাত্ৰীসকলে সময় অতিবাহিত কৰা উচিত। অনুষ্ঠানত এ এছ টি ই চিৰ সঞ্চালক, কিমেই চাংচেই বিশেষ অতিথি হিচাপে অংশগ্ৰহণ কৰে। তেওঁ কয় যে উপযুক্ত বিকাশ আৰু সুন্দৰ ভৱিষ্যতৰ বাবে উদ্ভাৱনৰ জৰিয়তে পৰিৱৰ্তন



আনিব লাগিব। দেশৰ নৱপ্ৰজন্ম হ'ল ভৱিষ্যৎ নিৰ্মাতা। বিশ্ব বৌদ্ধিক সম্পদে শিক্ষাৰ্থীক তেওঁলোকৰ লক্ষ্য ভেদ কৰাত সহায় কৰে আৰু বিভিন্নজনৰ বিচাৰধাৰাক বাস্তৱায়িত কৰে। সভাত বিশ্ববিদ্যালয়ৰ বৌদ্ধিক সম্পদ অধিকাৰ কোষৰ সমন্বয়ক অধ্যাপক ডঃ প্ৰদীপ ফুকনে আদৰ্শী ভাষণ দিয়ে। বিশ্ব বৌদ্ধিক দিবসৰ লগত সংগতি ৰাখি বৌদ্ধিক সম্পদ অধিকাৰৰ লক্ষ্য

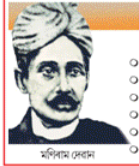
আৰু মৌলিকতা সম্বন্ধে মূল বক্তৃতা দিয়ে এ এছ টি ই চিৰ বিজ্ঞান আৰু প্ৰযুক্তিবিদ্যা বিভাগৰ প্ৰাক্তন মুৰব্বী ডঃ ৰঞ্জিত কুমাৰ বৰ্মনে। অনুষ্ঠানত এই বৰ্ষৰ ৰাজ্যৰ মুঠ পাঁচগৰাকী উদ্ভাৱকক তেওঁলোকৰ নৱ-উদ্ভাৱনৰ বাবে লাভ কৰা 'পেটেন্ট'ৰ বাবে সম্বৰ্দ্ধনা জনোৱা হয়। তেওঁলোক হ'ল— ধৰ্মানন্দ বৰমুদৈ, বৰ্ণালী ফুকন, দেৱপ্ৰসাদ হাজৰিকা, ৰঞ্জিত চেতিয়া আৰু মনোজ কুমাৰ দাস।

অংশগ্ৰহণ কৰে সঞ্চালক হাজ ডায়েবেটিছ নে ঘা বা আঘাত চলাই আছে ত দাঙি ধৰে। ডা ডায়েবেটিছ নে বিভিন্ন ৰোগে ল'ব পাৰে আ আৰু অজ্ঞানত একোখন বহুমে পোলাবলগীয়া বিষয়ে ব্যাখ্যা সভাপতিত্ব ক পাঠকে। সন্ধি চৌহদত বস্তু

## ফলা

মহানগৰ বাত আজাৰা, ২৭ পৰীক্ষাৰ ফল স্বাভাৱিক ঘট





সুপ্ৰভাত

আজিৰ দিনটোতে—

- ১৫২৬ত মেগল শাসক বাৰে দিল্লীৰ সন্ন্যাসী।
- ১৭৯১ত টেলিগ্ৰাফৰ আৱিষ্কাৰক হেল্মহোল্ট ক্ৰিষ্টাফ শ্বিভেৰে।
- ১৮০৩ত মুক্তি যুঁজাৰ মৰিচাম দেৱানৰ জন্ম।
- ১৯০৮ত লণ্ডনত চতুৰ্থ ক্ৰীড়া সমাবেশ আৰম্ভ।
- ১৯১৪ত ভাৰত-চীন-তিব্বতৰ মাজত ছিমলা চুক্তি স্বাক্ষৰ।
- ১৯৯৪ত ভাৰতৰ এটা স্বক্ৰমে কেৰাচীও উপৰে উৎসৰ্পন পদ্ধতি মুকলি।

মণিদাস দেৱা

স্বদেশ আৰু স্বজাতিৰ সেৱাৰ দৃঢ় সংকল্পৰে

# নিয়মীয়া বাৰ্তা

## বিশ্ববিদ্যালয়ত বৌদ্ধিক সম্পদ দিবস উদ্‌যাপন

গুৱাহাটী, ২৬ এপ্ৰিল : গুৱাহাটী বিশ্ববিদ্যালয় বৌদ্ধিক সম্পদ অধিকাৰ কোষ আৰু 'অসম ছায়েন্স টেকন'লজী এণ্ড এনভায়ৰনমেণ্ট কাউন্সিল (এএছটিচি)ৰ সহযোগত বিশ্ববিদ্যালয়ত 'বিশ্ব বৌদ্ধিক সম্পদ দিবস, ২০২২'ৰ আয়োজন কৰা হৈছে। এই বৰ্ষৰ বিশ্ব বৌদ্ধিক সম্পদ দিবসৰ মূল বিষয় হৈছে, বৌদ্ধিক সম্পদ আৰু নৱপ্ৰজন্ম উৎকৃষ্ট ভৱিষ্যতৰ বাবে নৱ উদ্ভাৱন। গুৱাহাটী বিশ্ববিদ্যালয়ত আয়োজিত এই অনুষ্ঠানৰ শুভাৰম্ভণি কৰে

বিশ্ববিদ্যালয়ৰ উপাচার্য অধ্যাপক ড° প্ৰতাপজ্যোতি সন্দিকৈয়ে। অনুষ্ঠানত ভাষণ দি ছাত্ৰ-ছাত্ৰীসকলক ন-উদ্ভাৱনৰ ক্ষেত্ৰত গুৰুত্ব দিবলৈ তেওঁ উৎসাহ জনায়। অনুষ্ঠানত (এএছটিচি)ৰ সঞ্চালক, কিমেই চাংচেই বিশেষ অতিথি হিচাপে উপস্থিত থাকে। সভাত গুৱাহাটী বিশ্ববিদ্যালয়ৰ বৌদ্ধিক সম্পদ অধিকাৰ কোষৰ সমন্বয়ক অধ্যাপক ড° প্ৰবীণ ফুকনে সভাৰ আদৰ্শী ভাষণ দিয়ে। বিশ্ব বৌদ্ধিক দিবসৰ লগত সংগতি ৰাখি বৌদ্ধিক সম্পদ অধিকাৰৰ লক্ষ্য

আৰু মৌলিকতা সম্বন্ধে মূল বক্তব্য আগবঢ়াই (এএছটিচি)ৰ বিজ্ঞান আৰু প্ৰযুক্তিবিদ্যা বিভাগৰ প্ৰাক্তন মুৰব্বী ড° ৰঞ্জিত কুমাৰ বৰ্মনে। উক্ত অনুষ্ঠানত এই বৰ্ষৰ ৰাজ্যৰ মুঠ ৫গৰাকী উদ্ভাৱকে তেওঁলোকৰ নৱ-উদ্ভাৱনৰ বাবে লাভ কৰা পেটেন্টৰ বাবে সম্বৰ্ধনা জনোৱা হয়। তেওঁলোক হ'ল ক্ৰমে ধৰ্মানন্দ বৰমুদৈ, বৰ্ণালী ফুকন আৰু দেৱপ্ৰসাদ হাজৰিকা, ৰঞ্জিত চেতিয়া, মনোজ কুমাৰ দাস। উল্লেখনীয় যে মনোজ কুমাৰ দাসে তেওঁৰ দুটা উদ্ভাৱনৰ বাবে সম্বৰ্ধনা লাভ কৰে।

আজিৰ বিশেষ উন্মোচনী সভা জ্যোতিষ পাটোৱাৰীৰ কৰ্মৰাি জুবোড বিদ্যাপীঠ হাইস্কুলৰ ৮ ওপৰত তেওঁ বক্তব্য আগবঢ়ায়: জীৱন আৰু কৰ্মৰাজিৰ ওপৰ শীৰ্ষক গ্ৰন্থখন উন্মোচন কৰে ৫ ড° অৱনী কুমাৰ ভাগৱতীয়ে। হিচাপে উপস্থিত থাকে সাহি ডেকা, ভবেন্দ্ৰ নাথ গোস্বামী, জু ছাত্ৰী-ছাত্ৰীসকল।



### ৰাজগড়ত

মহানগৰ বাৰ্তা, ২৬ এপ্ৰিল : ইকোভেলী সংগীত ব্যৱস্থাপনাৰে প্ৰস্তুত কৰা 'এপাহি গানে, সান্ধী, তেজ, তুমি ব্ৰহ্মপুত্ৰ, নাগিনী প্ৰভাকচনে নিবেদন কৰা আৰু ড° মাইন কপৌ ফল খোপাটি সজালে' শীৰ্ষক ছোৱালীকে ধৰি কেইবাটাও এলবামত

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पेज 12

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डॉ. रूपक पटेल  
ओपीडी समय  
सोमवार से शनिवार  
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# दैनिक पूर्वोदय

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Guwahati, Wednesday, 27 April, 2022, dainikpurbudoy.com गुवाहाटी-बौद्धिक से एक साथ प्रकाशित A ROYAL GROUP PUBLICATION वर्ष: 18, अंक: 10, विक्रम सं. 2079, वैशाख मास, कृष्ण पक्ष 12, गुवाहाटी, बुधवार, 27 अप्रैल, 2022, पृष्ठ: 12 ₹ 10.00

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अधिकतम 32.40° न्यूनतम 21.70°

## अपना महानगर

3

## दैनिक पूर्वोदय

# गौहाटी विवि में मनाया गया विश्व बौद्धिक संपदा दिवस

▲ पूर्वोदय संवाददाता

मालीगांव, 26 अप्रैल। गौहाटी विश्वविद्यालय के बौद्धिक संपदा अधिकार कोष और असम साइंस टेक्नोलॉजी एंड एनवायरमेंट काउंसिल (एएसटीईसी) के संयुक्त तत्वावधान में मंगलवार को विश्व बौद्धिक संपदा दिवस मनाया गया। इस वर्ष विश्व बौद्धिक संपदा दिवस का थीम था 'बौद्धिक संपदा और नव प्रजन्म : उत्तम भविष्य के लिए नवाचार।'

गौहाटी विश्वविद्यालय के कुलपति अध्यापक डॉ. प्रताप ज्योति संदिकै ने विश्वविद्यालय में आयोजित इस कार्यक्रम का शुभारंभ किया। विश्वविद्यालय के कुलपति डॉ.



प्रतापज्योति संदिकै ने कहा कि नवाचार ही उन्नति की आधार है। इसलिए नवाचार में छात्र छात्राओं को अपनी समय बिताना चाहिए।

इस कार्यक्रम में एएसटीईसी के संचालक कीमनै चांगसेई प्रधान अतिथि रूप में उपस्थित थे। उन्होंने अपने भाषण में कहा कि उपयुक्त विकास

और सुंदर भविष्य के लिए नवाचार के द्वारा परिवर्तन लाना होगा। देश की नई पीढ़ी हमारे देश के भविष्य निर्माता है। अध्यापक डॉ. रंजीत कुमार बर्मन ने अपने भाषण में बौद्धिक संपदा अधिकार के लक्ष्य और मौलिकता की विभिन्न पहलुओं पर प्रकाश डाला। उनके साथ गौहाटी विश्वविद्यालय की बौद्धिक संपदा अधिकार कोष की समन्वयक अध्यापक डॉ. प्रदीप फूकन उपस्थित थे।

इस कार्यक्रम में धर्मानंद बोरमुर्दे, वर्णाली फूकन, देवप्रसाद हज़ारिका, रंजीत चेतिया और मनोज कुमार दास को नवाचार के लिए सम्मानित किया गया।



# **Gauhati University**

## **Institute of Science & Technology**

### Training and Placement Cell

The institute, which is part of a **75 year old** pioneer University of North-Eastern Region (NER) with 50 in-campus academic Departments and more than 340 affiliated colleges, which also happens to be in the top 1.12% of all participating institutions in the NIRF ranking 2021, organizes placement drives throughout the year for the students of final semesters. Our students are placed at various institutions and organizations for higher studies or services. For more details about the resources available in the four academic Departments offering the AICTE approved engineering programmes, please visit here:

- I. Department of Information Technology:  
<https://www.gauhati.ac.in/academic/technology/information-technology>
  
- II. Department of Electronics & Communication Engineering:  
<https://www.gauhati.ac.in/academic/technology/electronics-and-communication-engineering>
  
- III. Department of Bioengineering & Technology:  
<https://www.gauhati.ac.in/academic/technology/bioengineering-and-technology>
  
- IV. Department of Applied Sciences:  
<https://www.gauhati.ac.in/academic/technology/applied-sciences>

Placement for year 2021-22: **59.4%**

Some of the prominent hiring organizations are:

- TCS
- Wipro
- IBM
- Cognizant
- Accenture
- Capgemini
- Federal Bank

and many more...

The average packages offered:

- 3 LPA to 7 LPA

and the numbers tend to go up each year...

Students' Skillsets:-

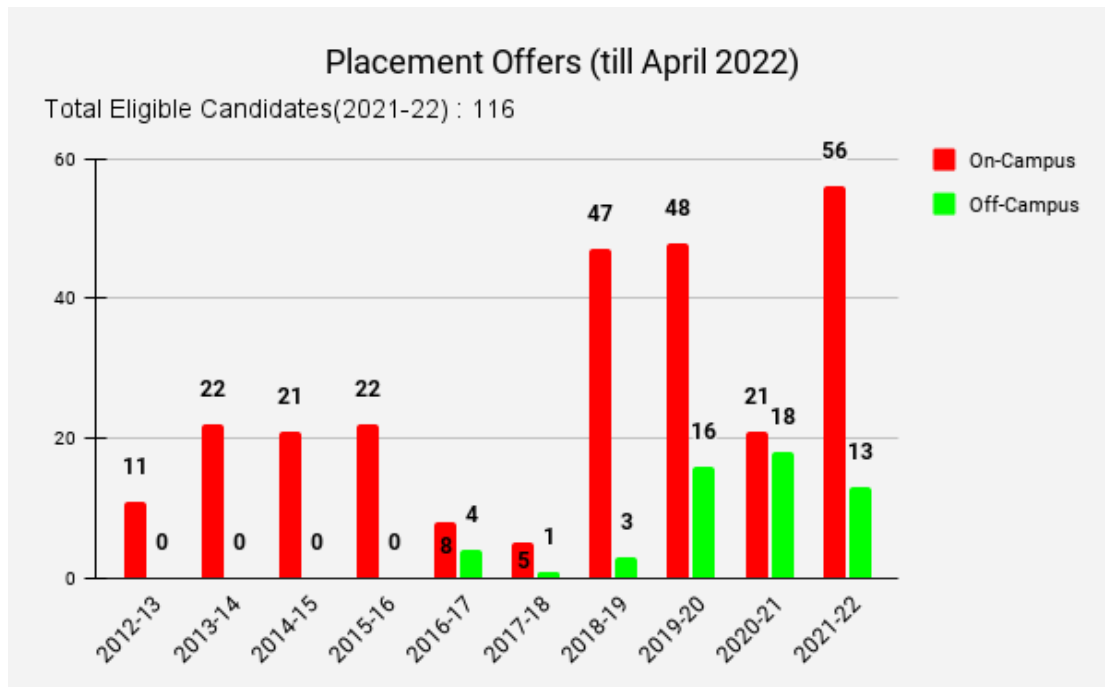
- Machine Learning
- Blockchain & Cryptography
- Android Development

- Software Development
- Robotics and Computer Vision
- Advanced Embedded System
- Compact Circuit Designing
- Signal Processing
- PCR
- Cell Culture
- DNA/RNA Extraction
- Management and Communication

and further skills which makes the candidates highly suitable to join professional workforce...

Training & Placement Cell Members :

- Training & Placement Officer :
  - Dr. Pranjal Saikia (Applied Science Department)
  - Chandan Kalita (IT Department)
  
- Faculty Members :
  - Manas Pratim Sarma (ECE Department)
  - Dr. Bipul Bezbaruah (Applied Science Department)
  - Ahidur Zaman (IT Department)
  - Bharati Baruah (BioTech Department)
  
- Student Coordinators :
  - Danish Ahmed (IT Branch)
  - Kunal Kaushik (ECE Branch)
  - Pranzol Nath (CSE Branch)
  - Nilkamal Bhagawati (BioTech Branch)
  
- Student Representatives :
  - Liza Mallick
  - Nilakshi Kakati
  - Arunabh Bora
  - Uttam Kr. Borah



*Figure : Placement Stats from 2012 to 2022*

### Prominence in Research Field

- Dr. Kaustuv Jyoti Bora, (2009 Btech batch) with his thesis "Smart Autonomous Multi-agent Systems" from Ryerson University, Canada, received several top scholarships including Queen Elizabeth Award, NSERC PhD scholarship, Ryerson Grad fellowship, Research excellence awards to name a few during this 4.5 years of his PhD program over CAD 250K. His PhD work is on Control Theory, Reinforcement learning and Mathematics. He is now aiming to acquire the position of Assistant Professor in Canada.
- Murchana Baruah (2013 MTech Passout) is working on her PhD thesis from Institute for Intelligent Systems and Electrical and Computer Engineering, University of Memphis, Memphis, TN, USA. She is also working as a Research Intern at Truveta (healthcare startup in Seattle) in the machine learning team.
- Swapna Agarwala, a former MTech student of our institute successfully defended her thesis and obtained PhD from IIT Kharagpur. She was the batch topper of MTech. Swapna stood first in the PhD entrance examination. She completed her PhD in computational neuroscience.
- Manashee Adhikary, a former BS-MS (Physical Science) student from the Department of Applied Sciences, is a Post-Doctoral Researcher at the premier research institution ARCNL, Amsterdam, The Netherlands (<https://www.linkedin.com/in/manashee-adhikary-794a8b8b?originalSubdomain=nl>) who carried out her PhD work on experimental studies of nanophotonic materials, viz. disordered media, 3D and 2D

photonic crystals made of Silicon from the University of Twente, Enschede, The Netherlands.

Besides, there are a few more students who had completed their post-graduate studies from the Department of Applied Sciences, are engaged in research activities in Materials Science & Technology, Data Science, and Numerical Simulation at various renowned universities in Europe. There are 36 Research Scholars in the Department who are actively engaged in doctoral thesis work in similar fields, and 7 former students are engaged in teaching.

### Technical Events

- **UTKRANTI:** It is a 24-hour Hackathon where students participate to hack daily life challenges and problems and define innovative technical solutions. This event aims to enhance the student's skills on a competitive level and open-up a gateway to start-up ventures.
- **UDBHAV:** It is a unique robotics competition where students are presented with a daily life challenge or task that needs to be fulfilled by implementing robotic solutions. A prominent project of this event is the Swach Bot that helps irrigate fields and clean roadways.

### Skill Enhancement Activities

- **Robotics & IoT Club :** Students participate in training sessions and workshops to gather knowledge and skills upon embedded systems, sensors & actuators, motion dynamics and using IoT to build integrated networks devices.
- **Web Development Club :** Students participate in training sessions and workshops to gather knowledge and skills upon web development, android development and networking.

### Industry-Academia Collaboration

**UDYOGAM:** In 2019 the institute organized the first industry-academia interaction programme where CMDs and other representatives from 28 different corporate houses across the country participated, and expressed their willingness to collaborate in skill enhancement of the students. Few of them signed MoUs too to take it to the next level, helping us in providing training and internship to the student. Since there exists a huge gap in this area, we look forward more robust partnership in this particular aspect. It also happens to be an annual activity of the institute.

**Industry Institute Partnership Cell (IIPC):** As mandated by the AICTE, the Institute has formed an IIPC to help a student not only in undertaking training and internship, but also in enhancing employability as well as handholding incubation and start-up activities.