ISSUE 4, APRIL 2020 - NOVEMBER 2021

IPR Jagoran...

"TUIPR Cell on its way to IPR Awakening"

Tezpur University Intellectual Property Rights Cell

A peep into the contents…

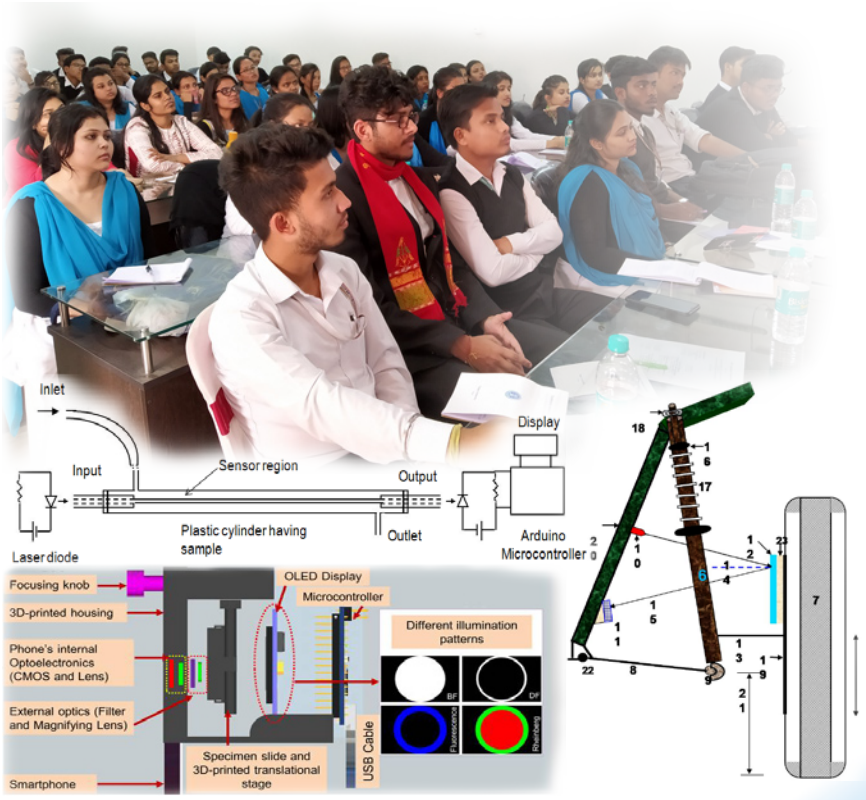
Our Acknowledgements …

We are grateful to

- Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India, for grants to carry out all our activities.
- GI Registry in Chennai for advice and involvement in our GI related work.
- DST-TIFAC for supporting and facilitating patent filing in Indian Patent office and abroad.
- NRDC for patent filling and technology transfer.
- CIPAM for collaborating in IP related activities.
- ASTEC for partially funding some of our activities.
- MEME- DI for collaborating in outreach activities.

The sciences and humanities, research and technology can enable countless additional simplification and improvements in our day-to-day lives. Particularly, innovations can be the key to our survival in this rapidly changing world. The current crisis has made it even more apparent that excellent innovation holds the answers to questions that have not yet arisen. For such innovation to be successful, a relationship is needed between and among research, invention and technology to provide the greatest possible scope for translation, product and commercialization. The trust earned by IPR Cell among innovation ecosystem at large over the past years presents a great opportunity. This trust is not something that can be taken for granted. It has to be earned a new every day and carries with it immense responsibility. We would like to express respect and gratitude to the outstanding commitment demonstrated by individual inventors of Tezpur University. It is a gift for an enlightened, knowledge based society.

The period 2020-21 was unprecedented and taught us the important lesson of being resilient. The teaching and evaluation were conducted following the academic calendar moving from physical to online mode. We moved all our meetings online, including the meetings with inventors, attorney and regulatory bodies. Creation of this virtual community was not easy. Our ever-widening circle today is a result of our continuous outreach to institutions, government, researchers, and students - both in digital and non-digital times. While feeling great of the above feats, the TUIPR Cell cannot afford to be complacent as many milestones are yet to achieve and to overcome.



Vice Chancellor's Desk

At the outset, I am very pleased to mention about the conferring of prestigious IPR Chair to the University from DPIIT, Ministry of Commerce and Industry, Govt. of India. This accomplishment certainly reflects continuous efforts and dedication from the Cell in providing adequate support and assistance to the Intellectual fraternity of the University and also to the grassroot innovators of the Northeast India in achieving their deserved Intellectual rights over the years.

The capabilities of human mind are best expressed during its endeavour to overcome and survive a crisis. This was fairly proved again in the present times when surviving the COVID-19 pandemic became our highest priority. TUIPR Cell is also not an exception in this crisis and continued all the IP filing related activities along with IP teaching on online platforms with full enthusiasm and dedication. This newsletter issue comes amidst challenges and opportunities arising from the COVID-19 pandemic. The inventors of University have shown commitment and a strong willingness to address international challenges in a post-COVID world. Here, we are sharing the successful outcomes of innovative projects. TUIPR Cell is playing an active role to facilitate IP registrations of home grown technologies even amid this pandemic.

This issue of 'IPR Jagoran' is like a mirror reflecting of all the works carried out by TUIPR Cell in the last two years. It also portraits the evolution of the Cell to its present form in these years. I wish all the best to the TUIPR Cell for its future endeavours.

- Prof. V. K. Jain

IPR Chair Professor's reflections

Assuming a new position in such a large organization is always a challenge all the more so in times of the pandemic. IPR has always been something that has held great appeal for me. My goal will be to find the best outcome together with all stakeholders involved. The pandemic has led to a surge in digitisation at the IPR Cell too. The IPR Cell places special emphasis on student innovation, awareness at grassroot level and recognizing home grown technologies. Another of the Cell's core tasks is to develop a pool of trained human resource in the field of IPR.

While the economic and societal challenges are indeed daunting and the future seems fraught with uncertainty, Innovation and Technology will play a critical role in finding solutions to this global challenge. Organizing annual IP Day program within this challenging time is endorsing our long term mission of encouraging out-of-the box innovative, entrepreneurial initiatives grounded in sound interdisciplinary research and with the potential for commercial viability.

The present issue of IPR Jagoran newsletter is showing overwhelming evidences of direct and indirect impacts on university's innovation profile, suggesting highly significant positive changes within and beyond the institution. We look forward to further strengthen this platform to bring together multifunctional activities of TUIPR Cell.

- Prof. P. Deb

New Leads

DPIIT- IPR Chair

Department of Promotion of Industry and Internal Trade (DPIIT) under the Ministry of Commerce and Industry, Govt. of India instituted the IPR Chair at Tezpur University in 2020. With the adoption of the National IPR Policy in the national fabric in 2016, various policies have been set forth for empowering more youth to get benefited from their innovations, generation of better employment opportunities based on execution and protection of intellectual outputs, and exploration of opportunities based on indigenous resources and traditions. In such a scenario, the TU-IPR Cell along with the firm support from DPIIT IPR Chair is working hard for opening doors for IP based research which shall not only set the stage for the next level of opportunities from this region, but also record the contribution from our University towards this national movement. Consistent efforts from this Chair are now directed towards securing IPRs of the University fraternity. It is also aiming to cater to the demand for IPR empowered academicians and professionals across the country.

Presently, Tezpur University has appointed Prof. Pritam Deb as the IPR Chair.

Visitor's Award

In recognition to significant contribution in innovation and technology development, Prof. Pritam Deb, Department of Physics and Intellectual Property Rights (IPR) Chair Professor, IPR Cell, Tezpur University has been adjudged for the prestigious Visitor's Award conferred by the President of India for Technology Development for the year 2020 for developing two-dimensional heterostructure based biodegradable film for food packaging.

Prof. Deb's patented inventions stand testimony to his expertise in producing extremely original application-oriented innovations. His overall research contributions exemplify innovativeness and originality in applications of fundamental principles of Physics to solve present critical issues in society and the country, overcoming the limitations of contemporary approaches.

An ecstatic TUIPR Cell expresses joy over the inspiring achievement of Prof. Deb.

Gandhian Young Technological Innovation (GYTI) Award - 2021

It's a matter of pride that young researchers from our University have received the Gandhian Young Technological Innovation (GYTI) Awards for fourth times. This year, 2021, this prestigious award has been conferred to Mr. Arun Gupta of Department of Food Engineering and Technology, Tezpur University and his research group for the innovative work on **Battery less Electrochemical Sensor for Quantification, Removal of Naringin and Determination of Maturity of Citrus Fruits.** The patent application for this invention is under process in IPR Cell.

BRICS Young Scientist Award in Innovation - 2021

Ms. Korobi Konwar, Research Scholar from Department of Physics, Tezpur University, got selected to represent India as Young Scientist among one of the five young scientists in 'Innovation Prize' Category in the prestigious BRICS Young Scientist Conclave 2021 held at the National Institute of Advanced Studies, Bengaluru. She has presented her innovation entitled **Development of smart theranostic agent for Cancer diagnosis using Zinc Ferrite nanorod embedded in Manganese Oxide 2D nanosystem.**

CBCT IPR for UG students: IP250 Fundamentals of Intellectual Property Rights

Encouraged by the positive responses received from the students in last few years, a CBCT IPR course is re- introduced from the Spring 2021 at the undergraduate level as an inter-disciplinary course. This course will facilitate the young minds to appreciate IPR and its impact on innovation, trade, commerce and societal dynamics. As per the objective of this course, students are guided in a way that they can realise the importance of protecting their own intellectual properties to sustain in a competitive and progressive world.

CBCT IPR for PhD students: IP750 Intellectual Property Rights in Research and Beyond

A special IPR course for the PhD students was designed and being offered in 2020-21 to make the students aware of the changing pattern of creativity and innovation in modern times. This interdisciplinary course was developed to facilitate a process for seamless integration, internalisation of IPR and good practices as the PhD students get initiated to their respective research topics. The students are being trained to conduct prior art searches, prepare patent landscapes and study patent documents so that they are able to better define their research problem and develop proper approaches to solve them without re-discovering the wheel.

Virtual Discussion organized by the TUIPR Cell among the Ph.D. students on the topic' Need to have compulsory license on Covid-19 vaccines and drugs'.

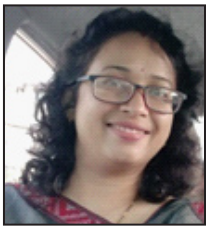
Students participating in the virtual discussion.

Peer leaning and critical thinking are two very important aspects of academic learning for budding researchers. In the times of the COVID-19 pandemic, when most of the research scholars are stuck at home, IPR Cell at Tezpur University ensured that this mode of learning is uninterrupted and organized a virtual debate on 29th of May 2021, among the Ph.D. students enrolled for the CBCT course on IPR to encourage them analyse and understand the current crisis of drugs and vaccines for treating COVID-19. The debate focused if Compulsory License could be the answer to meet up the challenge. The thoughts and opinions put forth by the students not only reflected concerns of the general citizens but also the apprehensions of the relentless inventors engaged in the pharma companies, who have invested lots of time and efforts to come up with required drugs in need hour. The discussion have enriched the collective consciousness of the students about the IPR provisions in the Indian Constitution to deal with pandemic and emergency situations and its effect on the industries as well as common citizens.

'Our Team at TUIPR Cell'

Prof. V. K. Jain
Chairman, TUIPR Cell

Prof. P. Deb
DPIIT Chair Professor, TUIPR Cell

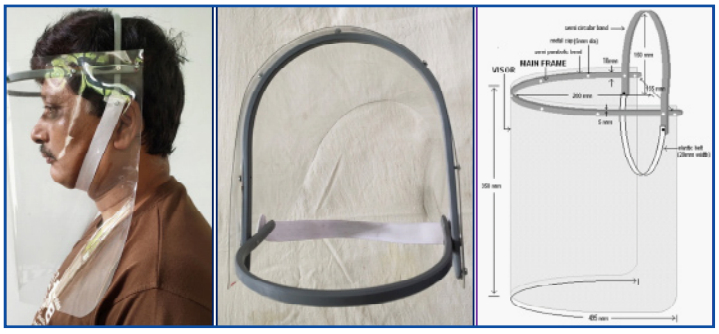


Dr. J. Borbora Saikia
Research Assistant, TUIPR cell

Dr. Koushik Saikia
Research Assistant, TUIPR cell

Mr. Saurav Deka
Office Assistant, TUIPR cell

1 Protective face shield



Side view of the Protective face shield while wearing it (in left), front view of the Protective face shield (in middle) and schematic view of the face shield design (right).

Kishore Baruah from the Department of Physics, Tezpur University, designed a protective face shield suitable for bespectacled wearer that could shield the person from unwanted exposure to body fluids and/or other harmful infection causing germs/viruses. It is foldable, light weight (164 gms.) and readily replaceable. Merits of this face shield system are:

- Full area coverage of a human face up to the chest.
- Designed to facilitate speaking without any trouble.
- Sufficient air circulation after wearing for long duration use.
- Non flickering visor.
- Suitable even for bespectacled users as no fog is formed while exhalation of air.
- Foldable frame, easy to carry and requires less space to store.

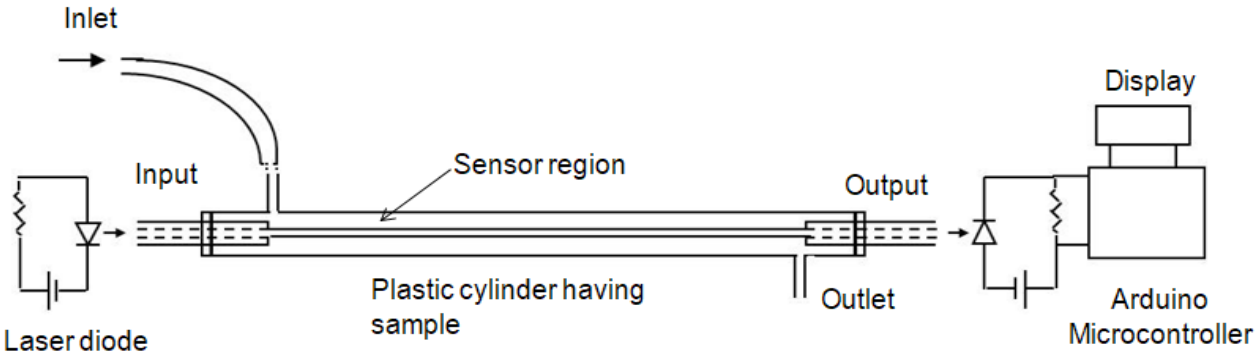
The invention has been filed for patent (application no. 202031016837) and also for industrial design (application no. 328958-001).

2 A Prototype optical Fiber device for onsite rapid testing of aircraft Jet fuel

Partha Pratim Sahu from the department of ECE, Tezpur University has invented a prototype which can sense and measure the water content in aircraft Jet fuel using evanescent optical fiber sensor.
Merits of using this prototype are:

- Favorable of onsite measurement due to use of portable and simple measurement set up
- Less measurement time of 1.14
- Less sample volume requirement (~0.14ml)

The invention has been filed for patent (application no 202131020238).



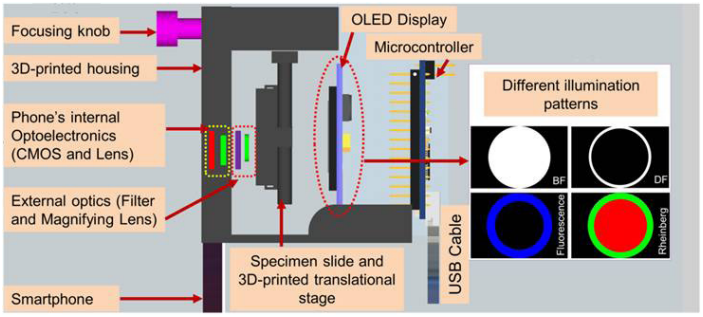
The invention has been filed for patent (application no 202131020238).

3 Methods and Apparatus of Multi-Modal Microscopic Imaging on a Smartphone and OLED display Illumination.

Pabitra Nath and Diganta Rabha from department of Physics, Tezpur University have invented a system that comprises a mobile device which has an imaging sensor, a micro-processor, a Type C or micro-USB port and memory elements to store acquired data. Further, the system comprises of an opto-mechanical set-up which configured to be attached to the rear camera of the mobile device.

Merits of this invention are:

- Different multi-modal imaging namely BF, DF, fluorescence, polarized, Rheinberg and phase contrast imaging can be possible on a single platform.
- The illumination of the OLED display which has been used as an optical source in the present invention can be controlled easily by the smartphone.
- The designed imaging system has a 3D printed XYZ translational stage that facilitates a user to focus and scan the sample over a wide region (entire microscopic slide).



Layout diagram of the smartphone based microscopic set-up.

- The FOV of the present microscopic system is estimated to be 3118 x 2452 µm2 and the resolution of the system is found to be as good as 2 µm.

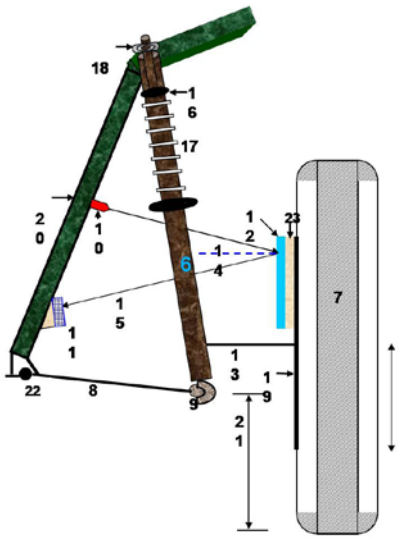
The invention has been filed for patent application no. 202131010963

4 System for measuring and correction of alignment parameters camber and toe of wheel of a vehicle

Santanu Sarma, Barnalee Sarma, Riku Chutia and Partha Pratim Dutta has invented a system that can overcome almost all the difficulties and provides a simplified, compact accurate and economical alignment system capable of measuring toe and camber of the wheels of road going motor vehicle. In the present invention, the laser module includes a housing within which a laser unit is placed.

Merits of this invention are-

- This invention overcome the foregoing and other difficulties and provides a simplified, compact accurate and economical alignment system capable of measuring toe and camber of the wheels of motor vehicle.
- It also uses a simple optical 5 system, which substantially minimizes both the cost of the equipment and the space required to perform wheel alignment service.
- By use of an alignment system according to the invention, setup time reduced compared with the other me chanical or optical alignment



This invention has been granted on 01/02/2021 with patent number 357468

IPR Awareness Programme at Nowgong College

Participants during one of the technical sessions. (Right) Prof. P. Deb while delivering his speech.

Keeping up with the objective of reaching out to the academic institutions of the region, a day long programme on Intellectual Property Rights Awareness was organised on 20 February 2020 at Nowgong College, Nagoan. This programme aimed at familiarising the students about the Intellectual Properties that they come across in their day to day life. The programme was jointly organised by Tezpur University Intellectual Property Rights (TUIPR) Cell along with the newly instituted Technology Enabling Centre (TEC), Tezpur University, and the Institutional Innovation Cell (IIC), Nowgong College. The main objective of the programme was to boost innovation among the college goers. More than 100 students from Nagaon participated in the programme.

The programme started with the welcome address by the Principal, Nowgong College, Dr. Sarat Barkataki. Later, importance of innovation was put forth by Prof. Charulata Mahanta, from the Department of Food Engineering and Technology (FET), and Coordinator, TEC, Tezpur University. The Invited lecture of the program was given by Prof. Pritam Deb, then Coordinator, TUIPR Cell where he apprised the audience about the importance of protecting Intellectual Property and how it works for the advantage of the creators. Similarly, importance of identifying IPRs during various stages of innovations were put forth by Dr. Partha Pratim Dutta, Associate Professor, Mechanical Engineering, and Member, TEC, Tezpur University. Prof. Manuj Kumar Hazarika from the Department of FET, and Co-Coordinator, DST-TEC, delivered the vote of thanks. He also elaborated on the importance of Institutional Innovation Cell (IIC) in colleges in his concluding note. The programme ended with a vote of

IPR Awareness program at MSME-Di

Prof. P. Deb deliberating on IPRs and its importance for the entrepreneurs.

A day long awareness program was organised on Intellectual Property Rights on 3rd March 2020 at MSME-Di, Guwahati in association with DPIIT-CIPAM, Ministry of Commerce, Assam Chambers of Commerce and DICC, Kamrup (M). The Program was designed for group of MSME units /Entrepreneurs / Industries on different topics on IPR which was believed to benefit the existing MSMEs and prospective entrepreneurs. Prof. P.Deb, then Coordinator, TUIPR Cell and Dr. Juri B. Saikia, Research Officer, TUIPR Cell, Tezpur University deliberated upon various aspects of IPRs and its uses for the upcoming industries and entrepreneurs.

IPR awareness program at Pandu College, Guwahati

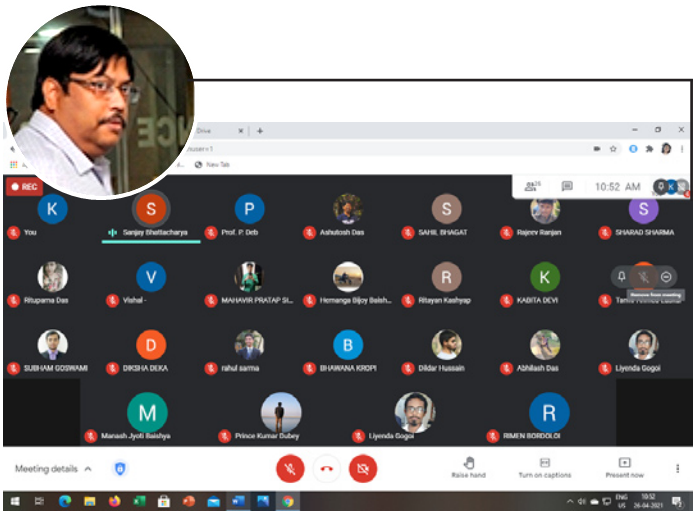
Prof. P. Deb while delivering his lecture.

With the objective of reaching out to the academic institutions of the region, a **One Day Regional Workshop on Intellectual Property Right for Academic Excellence** was organized on 22nd March 2021 at Pandu College, Guwahati. This workshop aimed at familiarizing the students about the importance of Intellectual Properties in today's competitive world. The programme was jointly organized by Internal Quality Assurance Cell (IQAC), Pandu College, Guwahati along with DPIIT IPR Chair, Intellectual Property Right Cell, Tezpur University. The main objective of the programme was to boost innovation among the college goers. More than 79 participants from Guwahati joined in the programme.

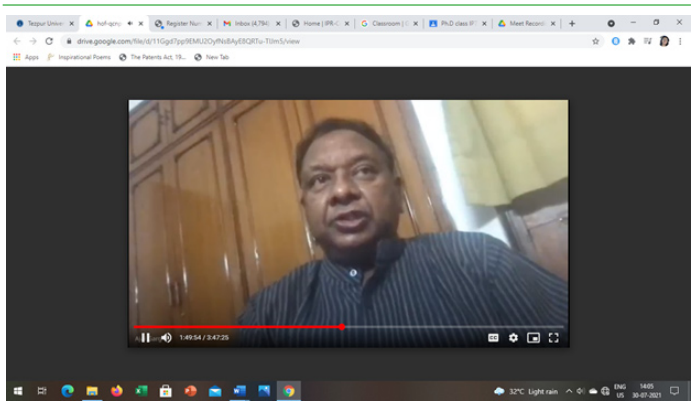
The Technical sessions of the program was started with the talk of Prof. P. Deb on the topic "Introduction to the Intellectual Property rights'. Keeping in view of the students participants, he explained in details about the characteristics of the all IPs such as patents, copyrights, design, trademarks, geographical indications (GI) etc. Dr. Juri B. Saikia and Dr. Koushik Saikia also delivered their talks in the subsequent technical sessions.

IP DAY on 26th April 2021

Human endeavour to struggle and survive unfavourable situations makes our race superior and stronger. Thus, Intellectual Property Day-2021 was organized amidst the second wave of Covid-19 pandemic to celebrate the spirit of innovation for survival of human beings on 26th April, 2021. This time the entire programme was organized on online mode. Even with limitations, the Cell organized the IP Day lectures, IP Quiz and Innovative Idea competition with a good number of participants from Tezpur University and nearby institutions. The IP Day lectures were delivered by two eminent experts of the field Dr. A. K. Garg, Senior Director, Ministry of Electronics and Information Technology, Govt. of India and Shri Sanjay Bhattacharya, Deputy Controller of Patent and Design, Indian Patent Office, Kolkata, whose lectures on the event had inspired the participants of the program. The theme of this year's celebration was IP & SMEs:Taking your ideas to market. This year entire discussion was oriented on the critical role of small and medium-sized enterprises (SMEs) in the economy and how they can use intellectual property (IP) rights to build stronger, more competitive and resilient businesses. 50 participants from within and outside the university participated in the programme.



Technical Session-I by Mr. Sanjay Bhattacharya, Deputy Controller of Patent & Design, Indian Patent office, Kolkata.



Technical Session-I by Dr. A. K. Garg, Senior Director, MEITY, Govt. of India

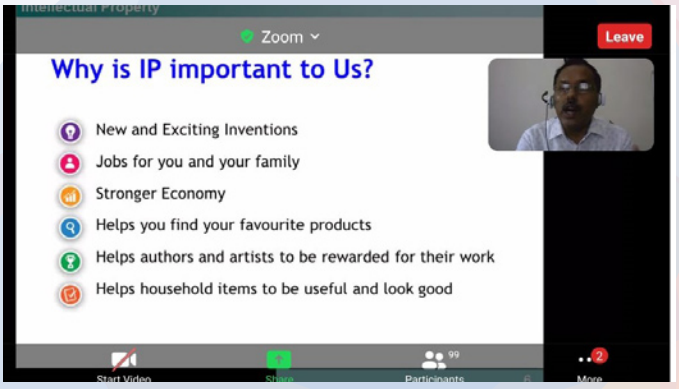
National Webinar on Intellectual Property as a Strategic Tool for Regional Development at Dhakuakhana College on 18th June, 2021

'I have an Innovation... How do I Protect it in the market???', on this note, Department of Political Science & IQAC Dhakuakhana College in collaboration with the DPIIT IPR Chair, Intellectual Property Right Cell, Tezpur University, organized a National Level Webinar on a contemporary issue, 'Intellectual Property As A Strategic Tool For Regional Development'. 'Why is IP important to us?' on this note the Key Note Speaker of the Webinar, Prof. Pritam Deb, DPIIT Chair Professor, IPR Cell, Tezpur University, highlighted how in today's globally competitive environment, Intellectual Property (IP) has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. It is also tinted how the increasing significance of intangible assets in the global economy is forcing business organizations to actively manage their IPR as a key driver for building and sustaining their competitive advantage and achieving superior performance and development. Citing many instances from local to global, the Speaker also focused on how Intellectual Property Rights (IPR) can become the fuel that powers the engine of prosperity, fostering invention and innovation not only in Assam but also in the entire North Eastern region. 156 participants from within and outside the state joined in the programme.

The Webinar was also very fruitful, where interactive session with the Speaker became very motivating and exciting with a series of queries and comments received from more than 200 participants joining from different fields and different parts of Assam, which were further moderated by Dr. Partha Protim Borthakur, Coordinator of the programme and Assistant Professor, Department of Political Science, Dhakuakhana College, Dhakuakhana. The session ended with the vote of thanks by Dr. Pankaj Bora, HOD, Department of Political Science, Dhakuakhana College, Dhakuakhana. As, due to the pandemic the Webinar was held online on Zoom Platform, which was also made live on Face book and You Tube simultaneously, encompassing a larger audience within its ambit.

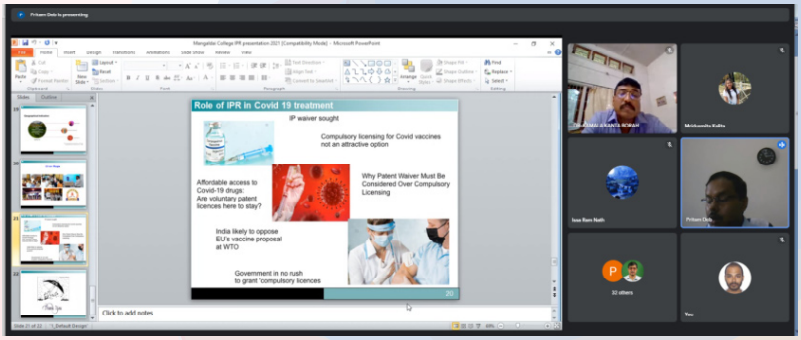
State Level Webinar on Intellectual Property Right in the context of sustainable development at Mangaldai College on 5th July, 2021

On 5th July 2021, a state level webinar is organized by IQAC, Mangaldai College in collaboration with the Intellectual Property Rights Cell, Tezpur University through the Google Meet Platform. The topic of the webinar was 'Intellectual Property Rights in the context of Sustainable Development'. The main aim of this webinar was to sensitize the students, faculties, academicians, and scholars about IPRs, especially patent and copyrights and to guide all in respect of patenting their inventions. The webinar was initiated by Dr. Kamala Kt. Bora, Point convenor & Assistant Coordinator of IQAC, Mangaldai College, with his introductory speech on IPR. Dr. K.K. Bora introduced the Resource Person Prof. Pritam Deb, DPIIT Chair Professor, IPR Cell from Tezpur University.



Prof. P. Deb while delivering his lecture.

Dr. Bora was followed by Dr. Khagendra Kr. Nath, Principal, Mangaldai College through his welcome address speaking about the need of awareness on the IPR & issues among the scholars and academicians. In his welcome address Dr. Nath made an overview encompassing different areas of debate on IPR issues specifically in the North - Eastern Region of India.



Prof. P. Deb while delivering his lecture.

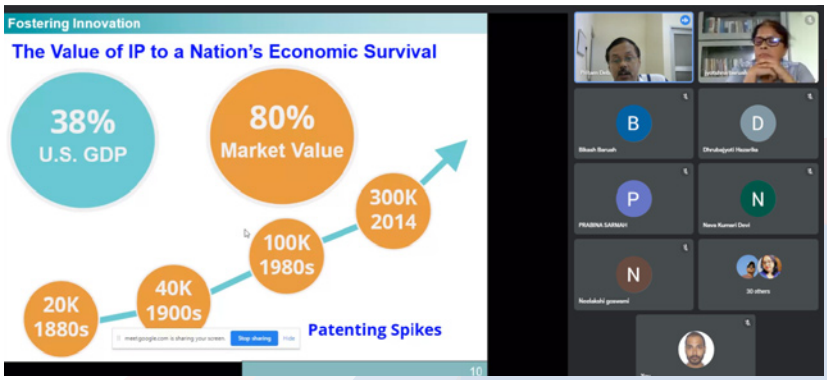
National Webinar on Intellectual Property Rights in Contemporary World, C.K.B. College, Teok on 5th July, 2021

The Dept. of Commerce and Dept. of Economics, C.K.B. College jointly organised a National Webinar in collaboration with Intellectual Property Rights Cell, Tezpur University & IQAC, C.K.B. College, Teok on "Intellectual Property Rights in contemporary world" on 5th July, 2021. The Resource Person for the webinar was Dr. Juri Borbora Saikia, Research Assistant, IPR Cell, Tezpur University. The webinar was specially targeted to the students, scholars, academicians and others. The aim was to impart knowledge about intellectual property rights (IPR) and what role do they play in the contemporary world. 37 participants from within and outside the university participated in the same.

Dr. Juri B. Saikia while delivering her talk

National Level Webinar on Need of Intellectual Property Rights for sustainable development at LOKD College, Dhekiajuli on 2nd August, 2021

A National Level Webinar on the topic "Need of Intellectual Property Rights for sustainable development" was organized on 2nd August, 2021 by LOKD College, Dhekiajuli, Assam in collaboration with the DPIIT IPR Chair, Intellectual Property Right Cell, Tezpur University through the Google Meet Platform. The Resource Person, Prof. P. Deb, delivered lecture on this emergent contemporary topic. He elaborated almost all the horizon of Intellectual Property in the contemporary world for a sustainable societal development. The participants of the program were mostly Faculty members, who are expected to become the ambassador of IP knowledge for disseminating among their students and fellow colleagues.



Prof. P. Deb while delivering his lecture.

FACILITATING PROTECTION OF IP GENERATED IN TEZPUR UNIVERSITY

1. List of applied patents (2020-21)

Sl. No	Application No	Title of Invention	Inventor (s)
1	202131045925	IoT Based Portable Ventilator	Ankita Das, Bihung Muchahary, Aniket Raj, Manish Kumar, Firdausa Ahmed, Chiranjit Adhikary and Soumik Roy
2	202131044011	An oxygen generation equipment based on water splitting for chronic/acute respiratory syndrome patients	Partha Pratim Sahu and Jagat Das
3	202131041315	Development of multimodal optofluidic system for sensing heavy metal ions	Rajib Biswas, Pritam Deb, Nirmal Mazumder, Soumyabrata Banik
4	202131022730	An Emg Based Multi Grasp Prosthetic Hand with an Android Interface	Nayan M. Kakoti and Lakhyajit Gohain
5	202131020238	A Prototype optical fiber device for onsite rapid testing of aircraft Jet fuel	Partha Pratim Sahu
6	202131010963	Methods and apparatus of multi-modal Microscopic imaging on a smart phone and OLED display illumination	Pabitra Nath and Diganta Rabha
7	202031039202	Development of low fat baked snack susingde-oiled soya flour	Ayan Bhattacharjee, Devesh Kumar and Laxmikant S. Badwaik
8	202031016837	Protective face shield system with adaptability for bespectacled wearer for healthcare/medical purposes	Kishor Kumar Baruah
9	202031000071	An improved iron fortification technique for fortification of rice using cold plasma	Poonam Mishra and Kumudhini Akasapu

2. List of Granted patents (2020-21)

Sl. No	Patent No. and Date of Grant	Title of Invention	Inventor (s)
1	343590, date of certificate issue: 7/08/2020.	Novel Soil Conditioners	Sanjay Pratihar, Satya Sundar Bhattacharya, Pallabi Das and Kasturi Sarmah
2	345356,date of certificate issue:28/08/2020	A synthetic hyperbranched epoxy surgical sealant and a process for reparation thereof	Niranjan Karak, Saswat Barua and P. Chattapadhya
3	351940, date of certificateissue:23/11/2020	Multifunctional nanoparticles and methods for synthesis therof	Pritam Deb and Madhulekha Gogoi
4	357468, date of certificate issue: 01/02/2021	System for measuring and correction of alignment parameters camber and toe of wheel of a vehicle	Santanu Sarma, Barnalee Sarma, Riku Chutia and Partha Pratim Dutta
5	362974, date of certificate issue: 24/03/2021	Intelligent Helmet System	Ratul Kumar Baruah, Amit Kumar, Saurav Dutta and Surajit Paul
6	365565, date of certificate issue: 28/04/2021	Nanocatalyst for bio oil production	Pritam Deb and Kasmiri Deka
7	366731, date of certificate issue: 21/05/2021	Microwave mediated processing of turmeric	Brijesh Srivastava, Baby Z. Hmar and Dipsikha Kalita
8	370787, date of certificate issue: 30/06/2021	Mesoporous secondary nanostructures as multifunctional heavy metal scavenger	Pritam Deb, Kakoli Bhattacharya and Devaborniny Parasar

Trademark Registration

TUIPR Cell provided technical support to M/s Lahkar Udyog Pvt. Ltd., Tezpur for filing trademark for their current and upcoming retail products in the field of milk and milk products, edible oils and fats, rice, flour, and preparations made from cereals, mustard, etc. A trademark with brand name 'Bali Ram' was filed on 20/11/2020 under the category of body incorporate for class 29 and 30 covering the products for protection against any counterfeit products that may harm the reputation of the enterprise.

'IPR Jagoran' Editorial Team

Prof. P. Deb, Angel Habamon Syiem, Astt. Prof. Dept. of Law, Dr. Juri Borbora Saikia, Dr. Koushik Saikia and Saurav Deka

The Sentinel
of this land, for its people

Tezpur University starts project to revive heritage of *gamosa*

OUR CORRESPONDENT

TEZPUR, Dec 22: A threadbare discussion on the challenges to revive the cultural artifact *gamosa* was organized by Tezpur University at Srimanta Sankaradeva Kalakshetra, Guwahati recently. The University Grants Commission (UGC) has awarded the prestigious project STRIDE (Scheme for Trans-disciplinary Research for India's Developing Economy) Component -1 to create research capacity and human resource development on the intellectual property of gamosa and develop disruptive innovation in its supply chain.

Speaking in the consultative workshop, Dithakananda Hazarika, Managing Director of Assam Government Marketing Corporation Ltd (AGMC), stressed the socio-cultural identity of gamosa among different communities of Assam. Professor Birinchi Kr. Medhi, retired Professor, Department of Anthropology, Gauhati University, discussed the historic evolution of gamosa and its present desecration due to its creative destruction. Intellectual Property Rights Chair Professor (Tezpur University) Pritam Deb explained the outreach activities of Tezpur University IPR Cell and the revival of GI status granted to Muga silk.

Xhattradhikar Janardan Deva Goswami of Uttar Kamalabari Xatra, Majuli urged on working together and emphasized n the need of institutional collaboration required to revive the heritage of *gamosa*. The workshop was attended by about 47 weavers of Chariduar, Sonitpur district of Assam along with a gathering of learned and interested people of the State and officials concerned of the Government of Assam. These expert weavers highlighted their supply chain problems to the forum. The discussion was attended by Prof. Joyshankar Hazarika of Darrang College, handloom retailer Bhaskar Dutta Goswami, educationalist Shantikam Hazarika, Xatriya dance guru Gopalkrishna Goswami, founder of Indian Weavers Alliance, Saumar Sarma, and other dignitaries.

Vice-Chancellor of Tezpur University, Prof. Vinod Kumar Jain, who participated in the event, hoped that the effort taken by the University would help in empowering the xhipinie (weavers), to accelerate gamosa supply chain and restrict desecration of its cultural heritage. The project is expected to help about 400 households in the handloom cluster of Charidaur Revenue Circle of Sonitpur district.

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TU faculty awarded Visitor's Award

OUR CORRESPONDENT

TEZPUR, July 15: In recognition to significant contribution in innovation and technology development, Professor Pritam Deb, Department of Physics and Department for Promotion of Industry and Internal Trade (DPIIT) Chair Professor, Intellectual Property Rights (IPR) Cell, Tezpur University has been adjudged for the prestigious Visitor's Award for Technology Development for the year 2020.

Prof. Deb bagged the award for developing two-dimensional heterostructure based biodegradable film for food packaging. "Presently, the consumer demands food with assured safety, quality and extended shelf life perception. This invention on new form of food packaging is to replace the unsustainable plastic, upon which modern life seems to depend, has shown functional efficacy in terms of biodegradability and mechanical, barrier, antimicrobial properties including shelf life," explained Prof. Deb

The Visitor's Award is India's one of the most prestigious awards conferred annually to promote healthy competition amongst central universities and motivate them to adopt best practices from around the world in pursuit of excellence. The President of India, by virtue of various Acts of Central Universities is the head of Central Universities and is known as 'Visitor'. At present, there are three categories in the Visitor's Awards- Visitor's Award for Innovation, Visitor's Award for Research and Visitor's Award for Technology Development. Prof. Deb received the award for Technology Development.