

REPORT

Two-Day National Workshop on

Intellectual Property Rights and IP Management for Start-up

Jointly organized by Central Library and IQAC Siliguri College

In Collaboration with INFLIBNET

an autonomous Inter-University Centre of University Grant Commission, New Delhi,

In association with Dept. of Mathematics, Dept. of Economics and Dept. of Computer Science

on 25th & 26th April, 2025 (on the world Intellectual Property Right Day)

Venue: Siliguri College, Room No. 1

A Two-Day National Workshop on Intellectual Property Rights and IP Management for Start-up was conducted on 25–26 April 2025 at Siliguri College. The event was jointly organised by Central Library and IQAC Siliguri College, in Collaboration with INFLIBNET, in association with Dept. of Mathematics, Dept. of Economics and Dept. of Computer Science. The workshop focused on different aspects of Intellectual Property Rights (IPRs), Conversion of the research/project works into Patents and Hands-on Training on patent searches for Innovations. This workshop will bring a positive transformation in the faculty member's attitude in their UG/PG Projects and research works and get them more focused as well as result oriented.

Inauguration Ceremony:

The workshop commenced with the lighting of the ceremonial lamp, followed by invocation song by college students. Dr. Sujit Ghosh, Principal of Siliguri College delivered the welcome address. Mr. Sandip Das, convenor of the workshop delivered the outline objectives of the event. Mr. Jaynata Kumar Kar (President, Governing Body), Dr. Sujit Ghosh (Principal), Dr. Jhinuk Dasgupta (IQAC Coordinator), Dr. Darshan Chandra Barman (Secretary, Teachers Council), Mr. Amal Roy (Teachers Member GB), Mr. Koushik Dev Roy (Non-Teaching Member GB) and Mr. Sandip Das (Convenor) digitally inaugurated the North Bengal's first college level Institutional Digital Repository which was a initiative by National Digital Library of India and MOU between Siliguri College and National digital Library of India, Ministry of Education, Govt. of India.





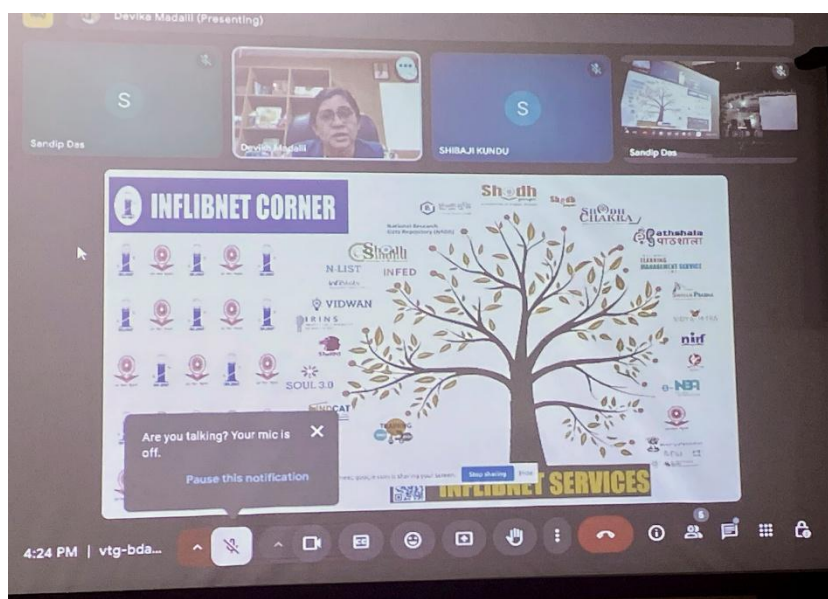
Keynote Address:

Rapporteur: **Dr. Suparna Naskar, Librarian, Siliguri College**

The Keynote address delivered by Prof. (Dr.) Devika P. Madalli, Director INFLIBNET. In her lecture she emphasized the crucial role of INFLIBNET (Information and Library Network Centre) in empowering India's academic and research ecosystem. She elaborated on various flagship initiatives such as Shodhganga, which provides free access to thousands of Indian theses and dissertations, and ShodhShuddhi, a UGC-mandated plagiarism detection service that ensures research originality and academic honesty. She also spoke about e-ShodhSindhu, a national consortium that grants access to high-quality journals, databases, and e-books—serving as a lifeline for researchers across disciplines.

Dr. Madalli further highlighted IRINS, which helps faculty and researchers showcase their scholarly output and fosters collaboration, and VIDWAN, a dynamic database of experts that aids in research visibility and networking. She acknowledged the role of MOOCs and e-content creation through SWAYAM, supported by INFLIBNET, in expanding digital education and lifelong learning.

With a special focus on researchers, she urged the



academic community to fully utilize these platforms to enhance the quality and reach of their research work. She concluded by describing INFLIBNET as a silent catalyst, revolutionizing Indian higher education and research by promoting open access, digital inclusivity, and scholarly communication.

Technical Session:

The workshop included three technical sessions. The session wise report is as below-

Technical Session I:

Resource Person: Dr. Sanmoy Mallick, Head & Assistant Professor in Management, NBU

Moderator: Prof. Abhijit Majumdar, Assistant Professor in English, Siliguri College

Rapporteur: Dr. Ratul Nandi, Assistant Professor in English, Siliguri College

Dr. Sanmoy Mallick's insightful technical session illuminated intellectual property as a vital instrument for startups seeking enhanced competitive standing and increased business worth. His historical overview traced startups from colonial India to the present, stressing IP's contribution to innovation and economic progress, while acknowledging its diverse effects globally. Sustainable startup growth demands the integrated consideration of social and economic elements for enduring value and positive influence. Moreover, each phase of a startup's evolution presents unique yet critical prospects and challenges concerning validation, scalability, and lasting expansion. Skilfully moderated by Professor Abhijit Majumdar, the presentation inspired significant audience engagement, demonstrated by numerous responses and thoughtful observations. This dynamic interaction underscored the audience's keen involvement and the session's overall effectiveness.



Technical Session II:

Resource Person: Dr. Anoop Kumar, Assistant Professor in Biotechnology, NBU

Moderator: Dr. Nima Doma Lama, Associate Professor in Geography, Siliguri College

Rapporteur: Topgyal Zimba, Assistant Professor in History, Siliguri College

This session was chaired by Dr. Nima Doma Lama, Associate Professor in Geography, Siliguri College. Dr. Lama gave a brief introduction about the imperative need of Intellectual Property Rights in the present-day context and introduced the Speaker, Dr. Anoop Kumar, Assistant Professor in Biotechnology, NBU.

The lecture was delivered by Dr. Anoop Kumar, Assistant Professor in Biotechnology, NBU on the topic, “The Role of Intellectual Property Rights in startup Development and commercialization.” Dr. Anoop Kumar started his lecture by defining Intellectual Property Rights and talked about innovation and the need for its legal protection. He talked about the nature of Intellectual Property, its role as tangible property, intangible property and trade related aspects. His lecture emphasised on Patents and its different aspects like its exclusive rights,

legal rights and conditions and scope of Patentability under the Patens Act. While talking of Patentability, he stressed on thing that can patented and things that cannot be patented. The



Speaker further discussed about the scopes of Copyright Act, Trademarks, Geographical Indication and more.

The lecture was followed by an interaction session with the participants and felicitation of the Speaker.

Technical Session III:

Resource Person: Dr. Amit Prakash Singh, Professor in Computer Science, GGSIPU, New Delhi

Moderator: Dr. Tanusree Biswas, Associate Professor in Zoology, Siliguri College

Rapporteur: Dr. Sangita Khewa Subba, Assistant Professor in Zoology, Siliguri College

Process of innovation development of TRC to patent

Professor Amit Prakash Singh, Delhi

The session was started with the introduction of Professor Amit Prakash Singh who was kind enough to come all the way from Delhi to interact with the participants at Siliguri College. Dr. Tanusree Biswas, Associate Professor of Department of Zoology chaired the session and introduced the speaker. The focus of the presentation of Professor Singh was placement opportunities for the students through entrepreneurship. Faculty members of the college and universities should mentor the students to develop innovations. The process of innovation goes through different phases like idea generation, concept, feasibility, product development, Market testing and finally launch of the product. Prof Singh emphasized on the laboratory to commercialization through educational institute and industry collaboration. Here faculty members have important role to shape the student's future. He walked the participants through TRL to patent.

Patent comes under the Intellectual property which was the broad spectrum of the two-day workshop. So, the IP may be of product and process which focuses on improvising internal process of organization, new ideas or technologies, goods and services which focuses on capturing market for profit. Social ideas and philosophical ideas can also be registered as IP.

Now these intellectual properties can be preserved through certain rights one of them is called patent. Any patent has two components first is research design and development which depends on the work of researcher and educational institute next is financial process like prototype development, manufacturing and marketing. The ideas should be first published in peer reviewed journals to protect the same as the process of patenting takes a considerable time.

Professor Singh next explained the concept of TRL i.e. technology readiness level. It is a measure to assess the maturity of technology level. The scale range between 1-9. TRL 1-4 indicates the product is in research level, includes basic technology research and research to prove feasibility. Next TRL 5-6 includes technology development and demonstration. Finally, TRL 7-9 attracts the private sectors and industries and includes system development and system test, launch and operations. Thus, institute industry collaboration is required to develop innovative technologies.

Though the ideas are advised be published as soon as possible in reputed journals as patent takes times up to 5 years depending on the technology. There are certain pros and cons. A publication makes information available to the public, often through academic journals or conferences while a patent provides exclusive rights to an invention for a limited time. Publication primarily aims to share knowledge and advance understanding within a field. Patents, on the other hand, are granted for novel, inventive, and industrially applicable inventions, granting the inventor the right to exclude others from making, using, or selling the invention.

As the participants understood the concept of patent, Professor Singh next explained the patent drafting process.

Patent drafting is the process of writing and preparing a patent application, ensuring it accurately and clearly describes the invention. It involves a detailed specification, including the invention's description, claims (defining the scope of protection), and drawings (visual representations). The goal is to create a robust patent that is easily understood and enforceable.

Key Components of Patent Drafting:

- **Invention Disclosure:**

The inventor provides detailed information about their invention, often through an invention disclosure form or a series of discussions with a patent attorney.

- **Prior Art Search:**

A search of existing patents and publications to identify similar or related inventions, determining the novelty and non-obviousness of the new invention.

- **Patent Drafting:**

This involves writing the patent application, including:

- **Title:** A concise and descriptive name for the invention.
 - **Background of the Invention:** Contextualizes the invention by explaining the problem it addresses and the limitations of existing solutions.
 - **Summary of the Invention:** A brief overview of the invention and its key features.
 - **Detailed Description:** A thorough explanation of the invention, including technical details and how it works.
 - **Drawings:** Visual representations of the invention, often diagrams, flowcharts, or other illustrations.
 - **Claims:** Statements that define the scope of protection granted to the invention.
 - **Abstract:** A short summary of the invention, highlighting its main features.
- **Filing:**

The completed patent application is filed with the relevant patent office, initiating the patent examination process. For the patent filing it is advised to hire professionals and register to institution's name so the risk is taken by them. Here the skill enhancement course introduced by UGC in the syllabus of under graduation and post-graduation has its importance. In the year 2018, the Ministry of Education (MoE) through MoE's Innovation Cell (MIC) launched the Institution's Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster the culture of innovation and start-up ecosystem in education institutions. Primarily, IICs' role is to engage large number of faculty, students and

staff in various innovation and entrepreneurship related activities such as ideation, Problem solving, Proof of Concept development, Design Thinking, IPR, project handling and management at Pre-incubation/Incubation stage, etc., so that innovation and entrepreneurship ecosystem gets established and stabilized in HEIs. The IIC model is designed to address the existing challenges/issues in HEIs such as less numbers, occasional and unplanned Innovation & Entrepreneurship (I&E) activities organised in HEIs with low involvement of top leadership, lack of coherence and absence of synergy in resource mobilization, deployment, and underutilization of creative potential of youths as major barrier for vibrant I&E ecosystem to emerge from HEIs.



Colleges and universities through NSS can incorporate IIC to protect their student's work.

Patenting the idea is not necessary but for commercialization and profit making for the research by patenting is advisable.

Finally, he gave impotent website for patent filing which comes under Ministry of Education and supports the patent filing. KAPILA is such a platform website is ipindia.gov.in.

The duration of patent is less for women entrepreneur and Australian patent office is faster than Indian one.

The lecture was very interesting, extensive and informative. Such kind of lectures are very important in current situation as the job market is declining each day. The students were encouraged to do innovative works and becomes entrepreneur leading to start ups.

Observation of World Intellectual Property Rights Day:26th April observed as the World

Intellectual Property Rights day by UNESCO. World Intellectual Property Day offers a unique opportunity to join with others around the globe to consider how intellectual property (IP) helps the global arts scene to flourish and enables the technological innovation that drives human progress. The campaign is also an opportunity to highlight the role that IP rights, such as, patents, trademarks, industrial designs, copyright, play in encouraging innovation and creativity.



An exhibition showcasing the handcraft made by college students of NSS Unit- II on 11 am at Room No-04, and it was the part of the workshop.

Valedictory Session:

The concluding session was held on 26th April at 3pm. In this session Mr. Sayandeep Sinha, student of Dept. of Chemistry has been felicitated for his outstanding achievement (All India Rank- 16) in JAM 2025 examination.

Dr. Sujit Kumar Biswas, Associate Professor in Bengali was felicitated for outstanding book publication award in arts category, Dr. Sujoy Kumar Sen, Associate Professor in Botany was felicitated for outstanding book publication award in science category; Dr. Krishna Paswan, Assistant Professor in Philosophy was felicitated for outstanding Research and article publication award in arts category for the year of 2022 to 2025 and Dr. Lovely Sarkar, Assistant Professor in Chemistry was felicitated for outstanding Research and article publication award in science category for the year of 2022 to 2025.



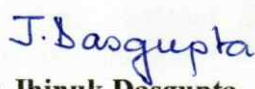
Dr. Jhinuk Dasgupta, IQAC Coordinator and Organizing Secretary presided over the valedictory ceremony. Reflections were shared, and certificates were distributed to the participants.


Participation and Feedback:

The event saw active involvement from 99 delegates, including faculty members, researchers, librarians, and professionals from Guwahati, Sikkim and districts of our state like Darjeeling, Jalpaiguri, Coochbehar. Positive feedback was received regarding the content, speaker expertise, organisation, and hospitality. Resource persons acknowledged the professionalism of the host institution.




Sandip Das
Convenor


Dr. Jhinuk Dasgupta
Organizing Secretary


Dr. Sujit Ghosh
Principal
Principal
SILIGURI COLLEGE
Siliguri, Darjeeling