



**GANDHI INSTITUTE OF ENGINEERING AND
TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**

(Established Vide Odisha Act 23 of 2018, Included by
UGC, New Delhi,
and Approved by AICTE, ICAR, INC, DSIR, New Delhi)
Gunupur - 765022, Dist.- Rayagada, Odisha, India



Intellectual Property facilitating Centre (IPFC) -Gandhi Institute of Engineering and
Technology University, Odisha, Gunupur
(IPFC-GIET University Cell)

Report

Janaury-2026

The Online Awareness Program on Intellectual Property Rights (IPR) in Research and Education, organized by the Intellectual Property Facilitation Centre (IPFC) – GIET University Cell, was conducted from 7th to 10th January 2026 with the objective of strengthening awareness and understanding of Intellectual Property Rights among academicians, researchers, and students. In the contemporary knowledge-driven economy, protection of intellectual assets has become a critical component of research and innovation. Recognizing this need, the IPFC-GIET University Cell designed this four-day online program to provide comprehensive insights into the fundamentals and practical aspects of IPR, with special emphasis on its relevance to research publications, academic innovations, startups, and technology commercialization. The program covered key domains of Intellectual Property such as patents, copyrights, trademarks, industrial designs, and geographical indications, along with detailed discussions on patentability criteria, patent drafting and filing procedures, IPR policies, and ethical research practices. Expert sessions highlighted the importance of safeguarding research outcomes, promoting originality, and avoiding plagiarism in academic and scientific work.

Expert: Dr. Munesh Singh, NIT Delhi
Topic: How to patent an Innovative Idea
Date: 07/01/2026



Intellectual Property Rights

- IP is protected in law by:
 - Patents: Machine/mechanism etc.
 - Industrial Designs: Aesthetic aspect or outward appearance.
 - Trade marks: Recognizable sign, design, or expression which identifies product or service.
 - Copyright: legal right, for print, publish, perform, film, or record literary, artistic, or musical material etc.

Activate Windows
Go to Settings to activate Windows.

What do big Companies do

- Big Companies are focus upon innovation and an actuate awareness of intangible assets.
- Big companies earn maximum through licensing, royalty, and robust business alliance
- A quick review of major companies, such as Apple, Samsung, IBM, Sony, Philips, Pfizer.

Metric

Leader	State Grid Corporation (China) fortune.com
Largest Patent/IP Portfolio	Samsung, Huawei, Toyota, Canon (with huge portfolio) fortune.com
Tech IP Giants	Walmart (Fortune)
Largest by Revenue Worldwide	Amazon, Apple, Alphabet also rank very high (Wikipedia)
Big Tech High Revenues	

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The meeting with DIC Kalahandi was held on 8th January 2026, during which discussions were carried out regarding the upcoming IPR Awareness program to be organized at Bhawanipatna.



Expert: Dr. Abhishek Gupta, Senior Scientist, CSIR-Central Scientific Instruments Organisation, A constituent of Council of Scientific and Industrial Research (CSIR), Ministry of Science & Technology, Government of India

Topic: Intellectual Property Rights (IPR) and Its Management

Date: 08/01/2026

Intellectual Property Rights (IPR) and its Management

Dr. Abhishek Gupta
Senior Scientist, Biomedical Applications Division
Central Scientific Instruments Organisation, New Delhi, India
A constituent of Council of Scientific and Industrial Research (CSIR)
[www.csir.res.in]
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Objectives

- Understand the intellectual property and its role in appropriating gains from innovation
- Understand different forms of intellectual property
- Understand the process of the protection of intellectual property

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Expert: Dr. G Ramesh Chandra, Head, Research and Consultancy Cell, Professor, Department of Computer Science & Engineering, VNR Vignana Jyothi Institute of Engineering and Technology, India

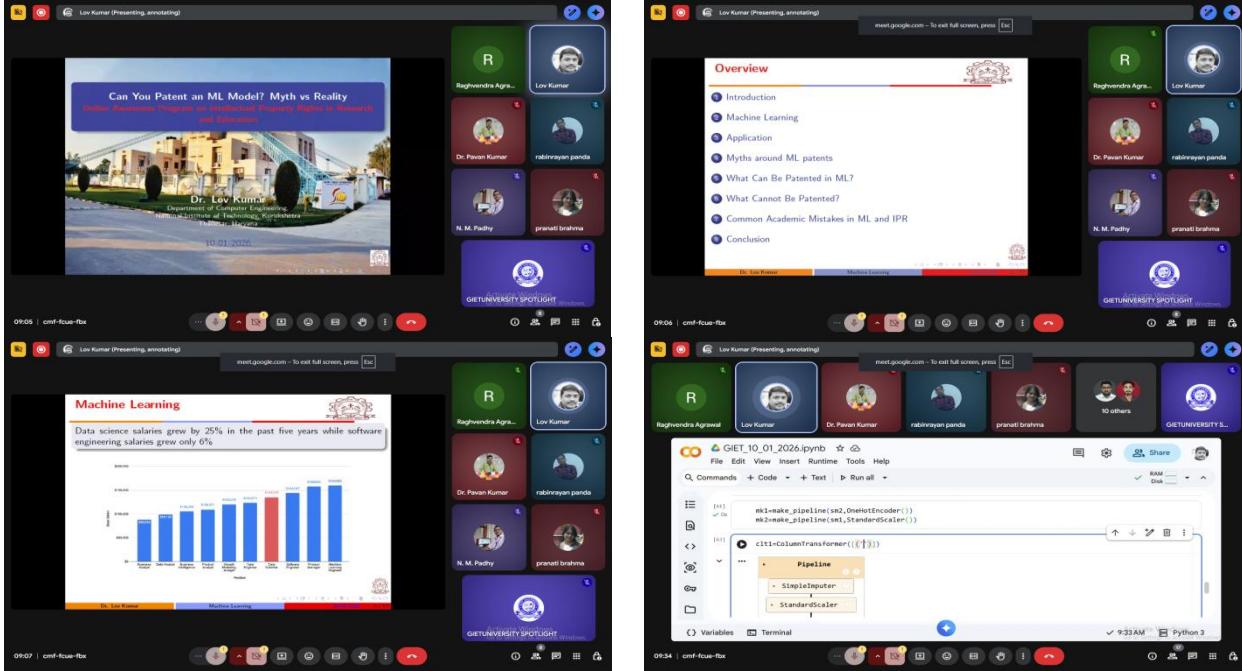
Topic: Demystifying Intellectual Property Rights (IPR)

Date: 09/01/2026

Expert: Dr. Lov Kumar, IEEE Senior Member and ACM Member, Dept. of Computer Engg., National Institute of Technology, Kurukshetra

Topic: Can you patent an ML Model? Myth v/s Reality

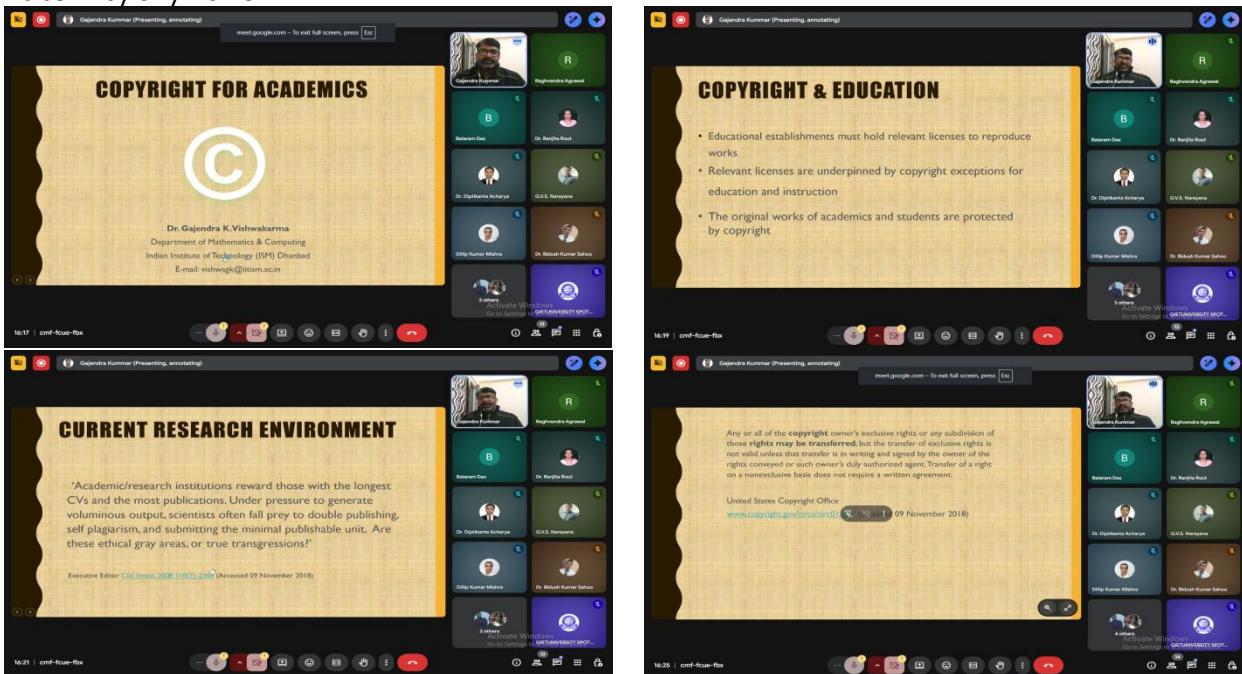
Date: 10/01/2026



Expert: Prof. Gajendra K. Vishwakarma, Dept of Mathematics & Computing, IIT Dhanbad

Topic: Copyright for Academics

Date: 10/01/2026



Expert: Dr. Rahul Kumar Chaurasiya, NIT Bhopal

Topic: Utility Patents (Grants) and Design (Registrations)

Date: 10/01/2026

The image consists of two side-by-side screenshots of a video conference interface, likely Google Meet, showing a presentation. The left screenshot shows a slide titled 'Utility Patents (Grants) and Design (Registrations)' with a sub-slide below it. The sub-slide is divided into three categories: 'Immovable property' (with a house icon), 'Movable Property' (with a car and a stack of gold bars), and 'Intellectual Property' (with a book, a lightbulb, and a purple circular logo). The right screenshot shows a slide titled 'Content' which lists the following points:

- Intellectual Property Right (IPR)
- Understand the fundamentals of utility patents and design rights.
- Learn the criteria and process for granting patents and design rights.
- Explore real-world examples of utility patents and designs.
- Description on my patents and designs

Below this list is a graphic of a lightbulb with the text 'Intellectual Property'.

The meeting with DIC Kalahandi was held on 13th January 2026, during which discussions were carried out regarding the upcoming IPR Awareness program to be organized at Parlakhemundi, Gajapati.,



Meeting with the IPFC-GIET University Cell Attorney was conducted on 20th and 21st January 2026, focusing on discussions related to patent searching, drafting, and filing processes with students, faculty members, and startups.



One-day IPR Awareness Program was organized at Bhawanipatna on 21 January 2026. Dr. Raghvendra Kumar delivered the welcome address, followed by talks by Dr. Diptikanta Acharya and Vice-Chancellor Prof. AVNL Sharma. Guests from DIC and MSME addressed participants and Expert talk was delivered by Dr. Lakshmi Prasad Panda.



Filling/Submission (IPR)

S/No.	Title (Patent Title, Copyrights, Trademark)	Inventor Name	Email ID	Mobile Number	IPR
1	AI-Driven Multi-Modal Academic Answer Evaluation System	Mr.Bhavani Sankar Panda	bhavanipanda@giel.edu	8093227563	Design Patent
2	A Privacy-Preserving, Region-Adaptive Federated Learning System for Real-Time Crop Disease Detection Using Edge Devices.	SADANANDA BEHERA, Dr. NEELAMADHAB PADHY, Dr.Rasmita Panigrahi, Pradeep Kumar Mahapatro, Dasaradha Arangi	sadananda.behera@giel.edu, dr.neelamadhab@giel.edu, rasmita@giel.edu, pradeepmahapatro@gmail.com, dasaradha.arangi@giel.edu	8926093245	Design Patent
3	Cross-Language Refactoring Prediction using Hybrid Machine Learning and Deep Learning Models	Archana Patnaik, Dr.Neelamadhab Padhy, Dr.Lov Kumar, Dr.Rasmita Panigrahi,	archanapatnaik@giel.edu, dr.neelamadhab@giel.edu, lovkumar@nitkkr.ac.in, rasmita@giel.edu	8328837960	Utility Patent
4	AI Saathi: An AI-Based Adaptive Emotional Support and Mental Health Assistance System	Mr.Bhavani Sankar Panda	bhavanipanda@giel.edu	8093227563	Design Patent
5	An Intelligent Agriculture System Using IoT Sensors and Ensemble Learning Techniques for Precision Agriculture Management	Arunjoy Das Adhikari, Suprit Kumar Patnaik, Gyana Ranjan Mohanty, Aditya Pradhan, Lipsa Samantray, Deependra Behera, Asish Kumar Patnaik, Dr.Neelamadhab Padhy	asishkumarpatnaik@giel.edu	9090701397	Utility Patent
6	An Ensemble and Deep Neural Network-Based Model for Air Quality Index Prediction in Urban Environments	Debasish Pradhan ,Dr.Rasmita Panigrahi , Dr.Neelamadhab Padhy	debasishpradhan@giel.edu	7978238303	Copyright
7	A Crop-Aware Intelligent System and Method for Weed Identification and Management Integrated with Crop Recommendation	Dasaradha Arangi ,Dr.Neelamadhab Padhy, Pradeep Kumar Mahapatro Dr.Rasmita Panigrahi	dr.neelamadhab@giel.edu,dasaradha9999@gmail.com dr.neelamadhab@giel.edu, pradeepmahapatro@gmail.com, rasmita@giel.edu	8926093245	Utility Patent
8	Software Framework for Crop-Aware Weed Identification and Decision-Support in Precision Agriculture	Dr.Neelamadhab Padhy,Mr.Dasaradha Arangi,Dr.Rasmita Panigrahi Pradeep Kumar Mahapatro	dr.neelamadhab@giel.edu	8926093245	Copyright
9	BloodLens AI	Abi Kumar Singh, Adarsh Goyal, Sarthak Shovan Panda, Pragnya Samal, Ayush Das, Asish Kumar Patnaik, Dr.Neelamadhab Padhy	asishkumarpatnaik@giel.edu	9090701397	Utility Patent
10	An Intelligent Crop-Context-Aware Computing System and Method for Agricultural Decision Support	Pradeep Kumar Mahapatro , Dr.Rasmita Panigrahi ,Dr.Neelamadhab Padhy ,Dasaradha Arangi	rasmita@giel.edu	7978641510	Utility Patent
11	A Real Time Neuro-Fuzzy based Machine Learning System for Crop Yield Prediction	Asish Kumar Patnaik, Neelamadhab Padhy, Lov Kumar, Rasmita Panigrahi, Archana Patnaik	asishkumarpatnaik@giel.edu	9090701397	Utility Patent
12	A Context-Aware Indoor Air Quality Monitoring and Decision-Support System	Pratik Kumar Sah, Ritwik Dash, Subhashree Maharana, Ayush Kumar Jena	Pratiksah.2803@gmail.com	9155194938	Utility Patent
13	A Machine Learning Based Framework for Diabetes Prediction with Sampling Impact Analysis	Mr. Sanjaya Kumar Sethi , Dr. Rasmita Panigrahi , Dr. Neelamadhab Padhy	sanjayakumarsethi@giel.edu , Rasmita@giel.edu , dr.neelamadhab@giel.edu	6372326362	Utility Patent
14	A Machine Learning-Driven Cybersecurity System and Method for Real-Time Credit Card Fraud Detection	Sangeeta Mishra and Dr.Neelamadhab Padhy	smsangitamishra@gmail.com , dr.neelamadhab@giel.edu	8926093245	Utility Patent
15	AI- Powered Platform for Democratizing Sports Talent Assessment	Mr.Bhavani Sankar Panda	bhavanipanda@giel.edu	8093227563	Design Patent

16	Smart Crop Advisory System for Small and Marginal Farmers	Mr.Bhavani Sankar Panda	bhavanipanda@giel.edu	8093227563	Design Patent
17	A Secure Handheld Multi-Mode Radio Communication Device with Satellite-Assisted Personal Tracking and Automatic Network Failover System, and Centralized Command Monitoring System	Keshab Sharma ,Sidhu Kumar Singh ,Pratik Kumar Sah ,Sukanya Nayak, Pragnya Samal, Ravi Kant Thakur ,Dr. Raghvendra Kumar (Mentor)	keshav.s5118@gmail.com	6371775670	Utility Patent
18	An AI-Driven Decision Support System for Automated Fleet, Inventory Induction Planning, Scheduling, and Resource Allocation.	1. Ravi Kant Thakur 2. Megha Rani Sahu 3. Keshab Sharma 4. Bushra Bano 5. Sidhu Kumar Singh 6. Pratik Kumar Sah 7. Dr. Raghvendra Kumar (Mentor)	keshav.s5118@gmail.com	9155194938	Utility Patent
19	Swachh Sense - Smart Sanitation Monitoring with AoT & Bio-Sensor Network	1. Sidhu Kumar Singh 2. Keshab Sharma 3. Pratik Kumar Sah 4. Abhishek Singhania 5. Keshab Krushna Jena 6. Dr. Raghvendra Kumar (Mentor)	rajputsidhu302@gmail.com	+91 9934484259	Utility Patent
20	Blockchain-Based Blue Carbon Registry and MRV System Using IoT	Subrat Kumar Majhi Aditya Adarsha Satapathy Rudra Abhishek Badatia Murali Krishna Senapati Ranjit Patnaik	muralisenapaty@giel.edu	9437324062	Utility Patent
21	AI-Driven Public Health Chatbot for Diseases Awareness	1. Kumar Pratyush 2. Animesh Mandal 3. Tulika Priyadarshini 4. Aman Singh 5. Atul Yadav 6. Kamre Alam 7. Murali Krishna Senapati 8. Debasish Pradhan	muralisenapaty@giel.edu	9437324062	Utility Patent
22	AI-Based Crop Recommendation and Yield Prediction System Using Soil and Weather Data	1.Tangudu Varshita 2.Pasupureddy Sumanth 3.Gannavarapu Goutam 4.Korada Sai Sridevi 5.Puvvada Swati 6.Vaishnavi Patnaik 7.V. Keertan 8.Murali Krishna Senapatiy 9.D.Anil kumar	muralisenapaty@giel.edu	9437324062	Utility Patent
23	RU-Medic: A Smart Digital Healthcare and Emergency Support Platform for Rural Areas	1. Pratik Kumar Tulo 2. R. Aditya Kumar Dora 3. M. Aditya Kumarr 4. S K Farhan Akhtar 5. Subhadarshini Rauta 6. Tanushree Nayak 7. Murali Krishna Senapati 8. D Anil Kumar	muralisenapaty@giel.edu	9437324062	Utility Patent
24	Real-Time Groundwater Resource Evaluation using DWLR data	1. Subrat Pandey 2. Priyanshu Gupta 3. Lipsa Priyadarshinee 4. Soumya Ranjan Dandapat 5. Sonali Subhadarshini Sahoo 6. Swastik Paricha 7. Murali Krishna Senapati 8. Ranjeet Panigrahi	muralisenapaty@giel.edu	9437324062	Design Patent
25	Image Based Breed Recognition for Cattle and Buffalo	K Vishal Kumar Divya Ranjan Swain Prachi Priyadarshini Jyotirmay Sahoo Satyabrata Dash Arghyarupa Panigrahi Murali Krishna Senapati VSK Chaitanya	muralisenapaty@giel.edu	9437324062	Utility Patent
26	A Secure Digital Judicial Support System for Efficient Resolution of Small Legal Cases	1. Ritwik Dash 2. Tanmay Ku. Naik 3. Chinmay Sahoo 4. Subhashree Maharana 5. U.Gopal Krishna 6. Subhasmita Das 7. Murali krishna Senapati 8. Dillip Kumar Mishra	muralisenapaty@giel.edu	9437324062	Utility Patent
27	Smart Study : Smart Classroom & Timetable Scheduler	Disha Mandal Hitesh Maharana Alipsa Sahu Murali Krishna Senapati A jyoshana	muralisenapaty@giel.edu	9437324062	Utility Patent
28	Samadhan: Crowdsourced Civic Issue Reporting and Resolution System	1. Aditya Sharma 2. Ayush Ranjan Biswal 3. Himanshu Kumar 4. Debasish Swain 5. Abhipsha Giri 6. Trupti Mahanta 7. Murali Krishna Senapati 8. Rajendra	muralisenapaty@giel.edu	9437324062	Utility Patent

		Kumar Mahanta			
29	AUTOMETRA TECHNOLOGIES	KESHAB SHARMA	keshav.s5118@gmail.com	6371775670	Trademark
30	A Plug-and-Play IoT-Based Intelligent Firewall System with Real-Time Hybrid Machine Learning-Driven Intrusion Detection and Automated Threat Mitigation	Raghvendra Kumar	raghvendra@giet.edu	7804068698	Utility Patent
31	A Decentralized, Zero-Trust Based Credential Management System with Intelligent Threat Detection and Automated Security Enforcement	Raghvendra Kumar	raghvendra@giet.edu	7804068698	Utility Patent
32	A Quantum-Integrated Hardware-Assisted System and Method for Secure Random Number Generation and API-Based Cryptographic Entropy Delivery	Raghvendra Kumar	raghvendra@giet.edu	7804068698	Utility Patent
33	PASSMAN.AI	Swayam Sopnic Nayak & Raghvendra Kumar	raghvendra@giet.edu	7804068698	Trademark
34	Drone-Based AI-Enabled Grid Monitoring and Disease Detection System for Apple Orchards	Raghvendra Kumar	raghvendra@giet.edu	7804068698	Utility Patent
35	Animal Identification and Tracking Based on Sound Source Using an Autonomous Drone	Raghvendra Kumar	raghvendra@giet.edu	7804068698	Utility Patent

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