

# In Covid times, IIT-I gets 5 patents for research work

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**Indore:** Researchers at Indian Institute of Technology, Indore (IIT-I) have filed 25 patents during Covid-19 pandemic despite restrictions caused by it. Of them, five patents were granted by the Indian patent office.

Patents were filed in fields of drugs, energy conservation and various instruments among others while researchers at the institute are working on several Covid-19 related research activities and development.

Patents granted recently included 'System and Method For Electrical Energy Conservation' in May 2020, 'An Ultra-Low Power, Read Decoupled-Differential Write, 10t Sram Cell With Higher Read/Write Noise Margin' in Feb 2021, 'Design Space Exploration System and Method thereof using a Bacterial Foraging Optimization Mechanism' in May 2021 and 'Development of Asparaginase drug for the Treatment of Blood Cancer' in May 2021.

Some of the ongoing re-



search at the institute include, customized 3D printed reusable masks having reusable filters and straps, optical temperature sensor, UV-based set up to deactivate Covid-19 virus and detection of Coronavirus using advanced machine learning techniques.

IIT-I officiating director professor Neelesh Kumar Jain said, "IIT Indore has been promoting inter-disciplinary research programmes focusing on innovative and disruptive research in the basic and applied fields which results in development of new products, processes, technologies for the betterment of human beings, society and the nation."

A key competency of IIT-I is the research-driven practi-

cal oriented academic programmes because it forms a core component of undergraduate and postgraduate teaching, said Jain.

The institute said a total of 75 patents have been filled till date since its inception. In an effort to boost the research ecosystem in pandemic, special training were imparted to faculty and students on intellectual property rights, technology transfer, startups, and entrepreneurship to create new inventions and emerging technologies.

The institute is also developing an Industrial Research Park inside the campus to handhold industries and enhance research activities in collaboration.

During Covid-19 period, IIT-I signed MoU's with different industry partners and agencies.

Faculty members and scientists are also working on several international projects and joint collaborations with research organisations in Germany, France, UK, USA, Japan, South Korea, Russian Federation, Portugal and many other countries.