A new paradigm of wireless communication, the sixth-generation (6G) system, with the full support of artificial intelligence, is expected to be implemented in near future. Research on 6G is now well underway and several large initiatives have been launched around the globe to define what this new generation of wireless networks will be. Due to the wide variety of envisioned use cases, 6G will not lead to a one-size-fits-all solution, but rather inspire great diversity in terms of devices, spectrum usage, and technologies. Software-defined radio (SDR) employs reconfigurable software-based components for processing and conversion of digital signals. Unlike traditional radio communication systems, these radio devices are highly flexible and versatile. It has already proved its worth in 5G testbed implementations and is supposed to play a pivotal role in the deployment of next-generation communication technologies.

In order to take a stock of the recent development and future endeavor, IIT Patna is organizing a Symposium on 6G Mobile Wireless Communication. The Symposium will focus on the following events:

1. Talks on key emerging technologies for 6G i.e. OTFS, Intelligent Reflecting Surface, THz imaging, positioning/localization, etc. will be delivered by prominent speakers from top research institutes and industry.
2. SDR Workshop, where communication protocols using SDR will be implemented.
3. Hands-on training in mmWave circuit design, characterization, and fabrication will be done.

This symposium will provide a platform for knowledge dissemination and is expected to provide young researchers with a unique opportunity to learn from experts and even build the network.