

# ABot In Academics









## Empowering the Next Generation: ABot - Your Ally in 5G Education

Transform your curriculum with ABot, the comprehensive learning and researching solution; your ultimate AI & 5G learning companion designed to enhance learning and research at your university!

ABot in a Lab can help different departments across the Universities in their research. It can play a crucial role in fostering innovation and preparing the next generation for a rapidly evolving world.



### ➤ Benefits for Universities:

-  **Cloud Architecture:** Learn and Practice Cloud Orchestration and Optimal Sizing of the Cloud Native environments.
-  **AI/ML Knowledge:** Build models and use deep learning techniques on the generated 5G data.
-  **RAN Research:** Focus on R&D of the Radio units and patentable radio-based algorithms for ORAN.
-  **5G Use cases:** Perform 5G research activities for IoT, Edge and Security use cases.
-  **Research Excellence:** Dive deep into your research endeavours with ABot by your side. Access vast databases, gather insights, and accelerate your discoveries like never before.
-  **Practical Skills Development:** Hands-on experience with simulations and real-life scenarios equips student for future 5G careers.
-  **Cost-Effective Alternative:** Eliminate the need for expensive physical hardware with ABot's versatile cloud-based platform.
-  **Streamlined:** ABot's library of pre-defined test cases and exercises align with industry standards, saving faculty time and effort.

**Multifaceted 5G labs** can significantly enhance your capabilities:

- **Cross-Pollination of Ideas:** Researchers from different disciplines can collaborate under one roof.
- **Access to Advanced Technologies:** Develop innovative use cases and integrate with state-of-the-art equipment and infrastructure.
- **Bridging the Gap between Academia and Industry:** Knowledge and technology collaboration between academia and industry partners, thus incubating innovative products and services.
- **Participate in various 5G initiatives of Govt. Of India**

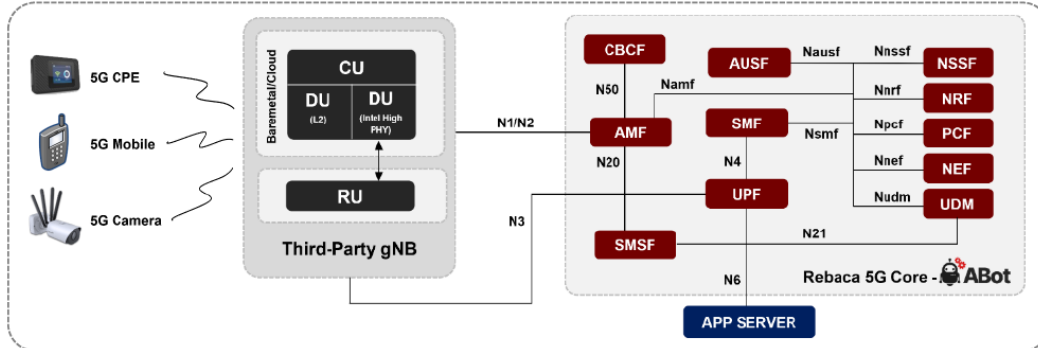
Invest in the future of your students by integrating ABot into your Telecom/ CS/Cloud curriculum.

## 5G Innovation & Research Lab Setup

[Watch Video](#)



ABot5GC is a **3GPP compliant 5G Core**. It can integrate with any **standard compliant RAN**. **ABot5GC + 5G RAN (gNB) + 5G UEs** will create an ecosystem for various application development to experiment/ investigate different use cases. It is highly **customizable, cloud-native, economical, and easy to maintain**.



### Possible Use cases:

- AR/VR
- Smart City
- Surveillance
- Collaborative Applications
- Health Care
- Agriculture
- Video Streaming
- Network Security
- Drone

## ABotEdu: Your One-Stop Shop for Hands-on 5G Learning

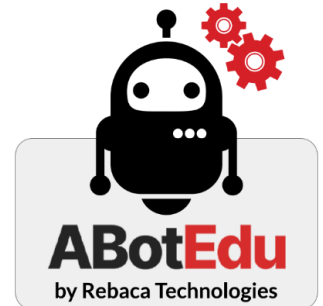
[Watch Video](#)



ABotEdu is a simulated 5G Core with an array of video lessons and exercises on 3GPP procedures. It is designed to facilitate a seamless transition from theoretical to the realm of hands-on 5G knowledge.

- 5G theoretical knowledge enhanced with hands-on exercises.
- Flexible and lightweight 5G plug-and-play lab.
- Ideal for institutions, online courses, and for R&D.

It empowers universities, research institutes, and labs with a user-friendly 5G training platform. It's like having a 5G playground in a box! Learners of all skill levels can experiment with different 5G messages and scenarios. Provides 5G orientation and facilitates employability.



To Learn more on 5G Hands-on, we can start the journey with an engaging workshop



Contact us today to learn more!

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