

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

DEPARTMENT INFORMATION TECHNOLOGY

- **Academic Year:** 2024-2025, Semester-II
- **Name of Course:** 414452 : Elective – VI (Blockchain Technology)
- **Class:** BE-IT

List of innovative methods used in Teaching and Learning

Sr.No Innovations by Faculties

1 Pedagogical in classrooms

- PPT
- Brain storming.
- Animation
- Videos
- Interactive Q&A Sessions

2. Collaborative learning

- Conduct **peer-reviewed blockchain assignments**, where students evaluate each other's smart contract implementations.
- Assign case studies on **real-world blockchain applications** (e.g., DeFi, supply chain, NFTs).
- Use platforms like **Ethereum Remix or Hyperledger Playground** for group-based smart contract development.

3. ICT Based Learning

- AVCOE Library Portal: Institute repository
<https://www.avcoe.org/library.php>
- Use **Ethereum Remix, Truffle, or Hyperledger Fabric** for hands-on smart contract deployment.

4. Project Based Learning and On-Site Learning

- Build a blockchain-based authentication system.
- Students create a blockchain-based supply chain tracking system.
- Encourage students to participate in **global blockchain summits and webinars**.

5. Work Available for Review and Critique

- Teaching Pedagogies are available on institute website
- <https://www.avcoe.org/it.php>
- Students submit assignments via blockchain for **transparent evaluation and plagiarism prevention**.
- Implement **blockchain-based voting** to rank the best projects.

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