Unique practices

- Industry Mentor Sessions every semester.
- Student-led Tech Talks
- Participation in coding platforms
- Capstone Projects with Industry Mentors
- Alumni Interaction & Career Guidance
- Community Service through Technology – Website/app development
- Smart Village Technology Project
- Green initiatives campaign
- E-Waste Collection and Awareness Drive
- Accessibility App Development for Persons with Disabilities

Learning Beyond (LB)

1. Course-specific MOOC courses

These online courses are carefully mapped to the Course Outcomes (COs) of the curriculum, enabling students to deepen their understanding of core concepts and gain exposure to current industry practices. By completing these certification courses, students reinforce classroom learning, develop self-directed learning habits, and acquire industry-recognized credentials that enhance their academic performance and career readiness.

2. Data Analytics Projects using real-world datasets from Kaggle

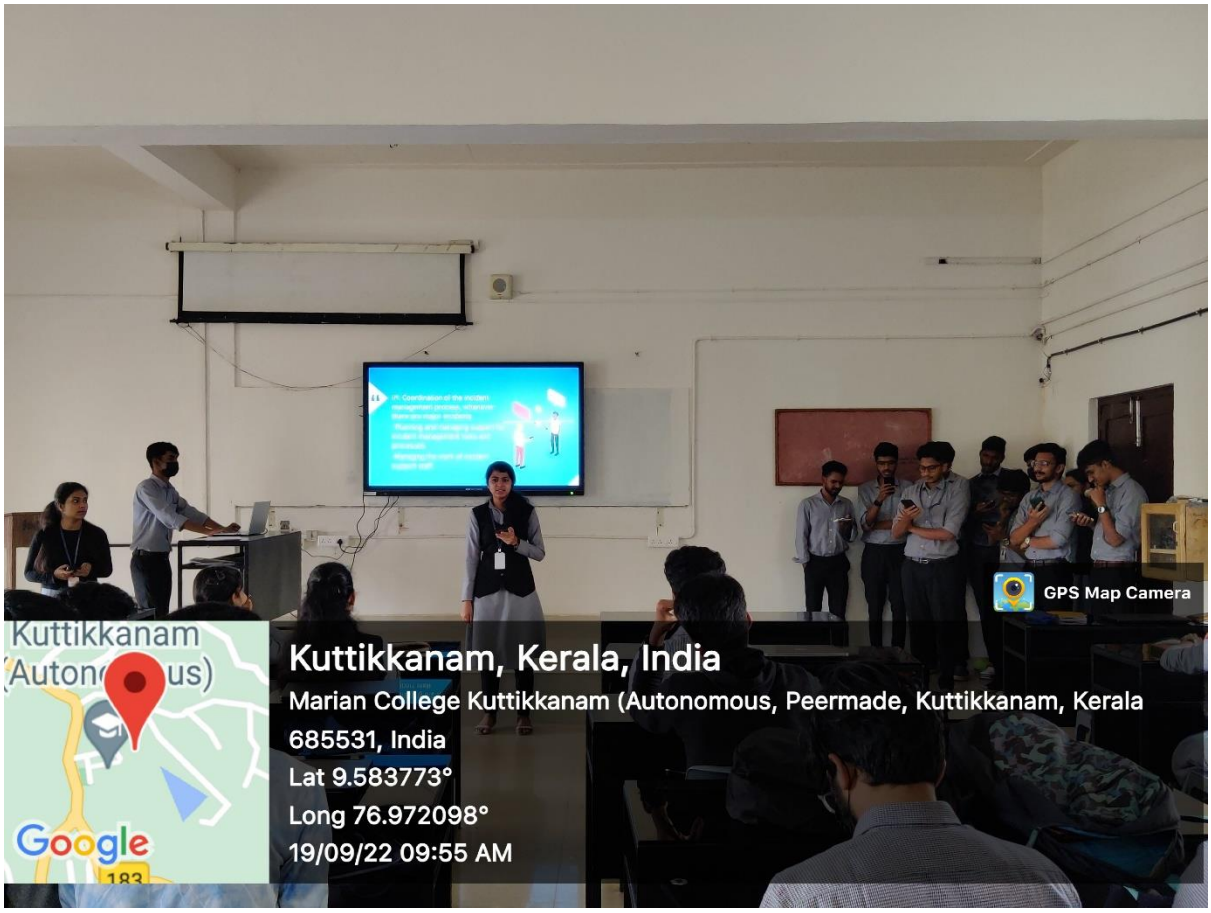
These projects enable learners to apply theoretical concepts in data preprocessing, visualization, statistical analysis, and machine learning to authentic datasets from domains such as healthcare, finance, education, and social media. By working with real data, students develop analytical thinking, problem-solving abilities, and proficiency in industry-standard tools such as Python, Pandas, and Scikit-learn. This experiential learning approach enhances technical competence while strengthening the attainment of course outcomes.

3. Internship Programmes in Software Companies

During the internships, students work on real-world software development projects, gain experience with modern tools and technologies and understand professional practices such as teamwork, project management, coding standards, and software testing. The internship experience bridges the gap between academic learning and industry expectations, enhancing technical skills, workplace readiness, and career prospects.

4. Role Play for Real-World IT Scenarios

Students participate in role-play activities that simulate real-world IT environments. They assume professional roles such as clients, software developers, system analysts, project managers and testers to solve practical problems, conduct requirement analysis, and make collaborative decisions. These simulations provide experiential learning opportunities that strengthen technical knowledge, communication, teamwork, critical thinking, and problem-solving skills while preparing students for professional workplace scenarios.



Learning Deeper (LD)

1. User-centric case study using Design thinking

Students undertake user-centric case studies by applying the Design Thinking methodology to solve real-world problems. They begin by understanding users' needs through observation and interaction, define the problem, generate innovative ideas, develop prototypes, and evaluate solutions based on user feedback. This activity promotes empathy, creativity, critical thinking, and collaborative problem-solving while enabling students to design practical and user-focused technology solutions.

2. Peer Teaching & Technical Seminars

Students explain concepts to their peers through presentations, demonstrations, and interactive discussions on emerging technologies such as Artificial Intelligence, Cloud Computing, Cyber Security and Full Stack Development. This collaborative learning approach strengthens conceptual understanding, communication skills, leadership, and confidence while fostering a culture of continuous learning and knowledge sharing.

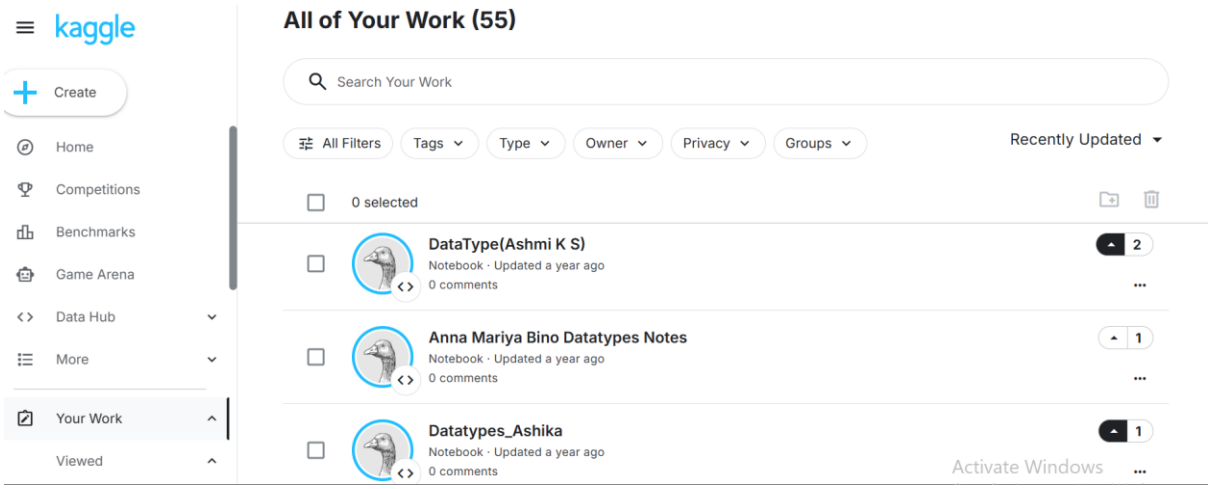
3. Advanced Simulation Activities

Students engage in advanced simulation activities using **Cisco Packet Tracer** to strengthen their understanding of computer networking concepts. They design, configure, and troubleshoot virtual networks involving routers, switches, VLANs, routing protocols, and

network security. These simulations provide a safe and realistic environment to experiment with complex networking scenarios, enabling students to apply theoretical concepts, develop analytical and troubleshooting skills and gain practical experience aligned with industry practices

4. Participation in Kaggle competition

Students are encouraged to participate in **Kaggle competitions** to apply their knowledge of data analytics and machine learning to real-world challenges. By working with diverse datasets and competing with learners from around the world, students gain hands-on experience in data preprocessing, feature engineering, model building and performance evaluation. This activity promotes self-directed learning, analytical thinking, innovation, and exposure to industry-relevant problem-solving techniques.



5. Case study analysis using Real -life scenarios

Students analyze real-world problems from industry, business, healthcare, education, or public services to identify issues, evaluate alternative solutions, and recommend appropriate strategies. Through case study discussions, learners apply theoretical concepts to practical situations, strengthen analytical and critical thinking skills, improve decision-making abilities, and enhance teamwork and communication. This activity bridges the gap between classroom learning and professional practice by exposing students to authentic challenges and encouraging solution-oriented thinking.

6. Mini Projects

Students undertake mini projects that enable them to apply classroom concepts to solve practical problems. Working individually or in small teams, they design and develop software applications, websites, mobile applications, or data-driven solutions using appropriate tools and technologies. These projects encourage experiential learning, creativity, teamwork, and problem-solving while strengthening programming, design and project management skills. Mini projects also prepare students for major projects and industry-oriented software development.