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(57) Abstract :  
 ADVANCED MACHINE LEARNING FOR SMART PEDAGOGY AND OUTCOME-BASED ASSESSMENT IN HIGHER EDUCATION The method for the development of the outcome-based education (OBE) framework is integrated into the Smart Pedagogical Learning and Assessment methodology (SPLAM), which the authors have dubbed the SPLAM-OBE framework. For engineering higher education programs offered by HEIs, SPLAM is suggested using five cutting-edge strategies: active learning, experiential learning, technology-aided learning, flipped classroom based learning, and problem-solving and critical-thinking based learning. Automated grading systems streamline the evaluation process, freeing up teachers to concentrate on targeted interventions and individualized support. Additionally, these tools offer a student-centric approach by offering personalized content, promoting a deeper understanding of the subject matter, and accounting for various learning styles.

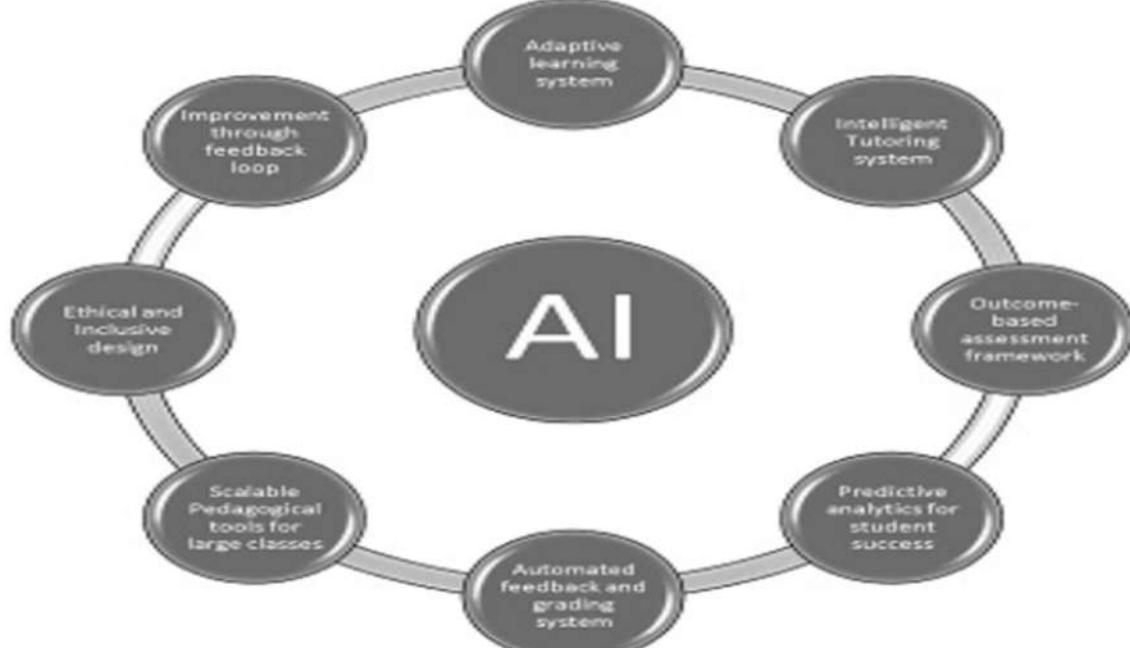


FIG.1.