IARE
INSTITUTE OF AERONAUTICAL ENGINEERING

NAAC ACCREDITATION A++ GRADE | NBA NATIONAL BOARD OF ACCREDITATION | nirf INDIA RANKINGS 2024 TOP 200 ENGINEERING RANK 151-200 | TOP 50 INNOVATION RANK 11-50 | 25 YEARS 2000 2025 of Excellence

STUDENT – LEARNING PEDAGOGY IMPLEMENTATION

	PEDAGOGY	*EMPHASIS*	*INITIATIVES*
SBL	Subject-Based Learning	Students learn in a variety of settings, but the focus is mastery of domain knowledge.	· Curriculum Mapping for Domains/Job Roles · Course-related Workshops & Bootcamps · Laboratory-Integrated Learning · Early Learning Readiness Videos (ELRV) · Classroom Lecture Recorded videos (CLRV) · Industry-Involvement in content delivery · Capstone & Course Projects · CIE, SEE, AAT (Tech-Talk, Complex Engineering Problems, Case Studies, Assignments, Real world examples, programming Hackathons, Concept Video,and Definition & Terminology) · Minor / Honors Programs · Prior Learning Assessment & Recognition (PLAR)
EL	Experiential Learning	Student learn through direct experience in a domain (learn by doing).	· SkillUP, Skillnext and SkillBridge Programs · Hackathons & Ideathons · Summer Research Internships · Laboratory and Simulation-Based Activities · Community Service & Social Projects · Innovation and Start-Up activities · Field practicum / Field Project, Industry In-plant Training, Internship, Industrial Visits, and Case Studies
PBL	Project Based Learning	Students have domain and contextual knowledge from an instructional approach utilizing multifaceted projects as a central organizing strategy.	· Cornerstone Projects · Vertically Integrated Projects (VIPs) · Projects In Community Services (PICS) · Innovation and Product Support Projects (TIPS) · Summer Research Internship (SRI) Projects · Capstone Projects · METE and CONCOCT Project Expos
ACL	Active / Collaborative Learning	Students learn through peer interaction.	· Peer-to-Peer Learning groups · ICT / E-Learning · Student Technical / Non-Technical Clubs · Collaborative Classroom Activities · Project-Based Learning · Language / Communication Labs · Flipped Classroom Approach · Coding Course Challenges
CBL	Case-Based Learning	Students learn domain knowledge and decision-making processes employed by experienced professionals in a historical case.	· Case Repository Development · Case Discussions in Classrooms · Case Writing by Students · Akanksha e-Learning / ICT portal · Cross-Disciplinary Case Integration · Alumni Talks
PBL	Problem-Based Learning	Students determine the information, strategies, and domain knowledge required to solve the problem.	· Real-World Problem Integration in Curriculum · Programming for Problem Solving · Project Based Learning (Prototype / Design Building) · Research Based Learning (Fabrication / Model Development) · ExEEd – Essentials of Problem Solving · Interdisciplinary Problem Challenges · Collaborative Learning · Minor / Honors Programs · Hackathons and Innovation Challenges · Complex Engineering Problems
EML	Entrepreneurially Minded Learning	Students learn to create value, gathering and assimilating information to discover opportunities or insights for further action.	· Idea Generation Workshops · Incubation and Start-Up Support · Technology Innovation and Product Support (TIPS) Projects · Hackathons and Innovation Challenges · Projects In Community Services (PICS) · Participation in MSME funded projects