

## **AI-Driven Smart Campuses: Intelligent Technologies for Academic Excellence and Sustainable Innovation**

<b>Chapter</b>	<b>Title</b>	<b>Page No.</b>
1	AI-Enabled Smart Campus Architecture: An Integrated Framework for Future Higher Education	15
2	IoT-Based Intelligent Monitoring Systems for Smart Educational Campuses	41
3	Graph Theory Applications in Academic Performance Modeling and Institutional Decision Systems	65
4	A Graph-Theoretic Approach to English Reading and Writing Proficiency Evaluation in EFL Contexts	90
5	AI-Driven Automated English Speaking Skill Assessment Using Deep Learning Techniques	117
6	Hybrid ML–Fuzzy Systems for Student Academic Performance Prediction	145
7	Smart Auto-Grading and AI-Based Feedback Systems for Paperless Evaluation	172
8	Automatic Timetable Generation Using Optimization and Graph Coloring Algorithms	200
9	Travelling Salesman Problem Applications for Electric Vehicle Routing Within Smart Campuses	227
10	IoT-Based Electric Vehicle Monitoring Systems for Pollution-Free Campus Transportation	253
11	AI-Driven Environmental Pollution Monitoring and Sustainable Campus Management	279
12	Smart Paperless Circular and Digital Communication Systems Using Cloud and AI	309
13	Machine Learning–Based Faculty Shortlisting and HRM Decision Support Systems	338

14	AI Models for Faculty Stress Analysis and Workplace Wellbeing Monitoring	368
15	Deep Learning Approaches to Student Stress Detection and Academic Risk Prediction	397
16	Graph-Based Social Media Addiction Analysis and Its Impact on Academic Performance	424
17	Entrepreneurship Development Using AI-Based Skill Mapping and Career Analytics	453
18	Mathematical Modeling for Smart Campus Optimization and Resource Allocation	484
19	Learning Analytics and Adaptive Pedagogy for Meeting Contemporary Social Needs	514
20	Explainable AI in Education: Transparent Academic Decision-Making Systems	543
21	Cybersecurity and Data Privacy in AI-Enabled Smart Campuses	574