

INNOVATIONS

- i) New Teaching Technique
- ii) Environment Friendly Initiative
- iii) Water Harvesting
- iv) Waste Water Recycling
- v) Solar Power Installation



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EVIDENCE/PROOF/ADDITIONAL INFORMATION

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PROFORMA FOR GRADING OF INSTITUTIONS

Name & Address of Institution:-3 PSP, Institutional Area Madhuban Chowk, Sector 14, Rohini, New Delhi-110085

New Teaching Techniques:			
Artificial Intelligence	 Virtual Labs and Simulations: Al-powered virtual labs and simulations provide students with hands-on experience in computer science concepts and programming languages. These interactive environments allow students to experiment, test hypotheses, and observe real-time outcomes in a controlled setting. Intelligent Content Creation: Al technologies enable the development of interactive educational content, including tutorials, quizzes, and multimedia presentations. Natural language generation tools can automatically generate educational materials based on predefined learning objectives and curriculum standards. Al-generated content can be customized to suit diverse learning styles and preferences, onbancing opgagement and comprohension among students. 		
Internet of Things	 IOT devices such as sensors, actuators, and microcontrollers enable students to build real-world systems and applications in computer science . By working with IoT hardware and software platforms, students gain practical experience in designing, prototyping, and implementing IoT solutions. Experiential learning with IoT devices helps students develop problem-solving skills, critical thinking abilities, and technical proficiency in computer science. IoT Hackathons and Competitions: IoT hackathons and competitions bring together students, educators, industry professionals, and technology enthusiasts to collaborate on IoT projects, solve problems, and showcase innovative solutions. These events provide a platform for hands-on learning, networking, and skill-building in computer science and IoT. IoT hackathons challenge participants to develop IoT prototypes, experiment with emerging technologies, and push the boundaries of IoT innovation. Research Opportunities in IoT: IoT offers abundant research opportunities for students interested in exploring advanced topics in computer science, such as edge computing, cybersecurity, machine learning, and artificial intelligence. Students can collaborate with faculty mentors on research projects, publish academic papers, and contribute to the advancement of knowledge in IoT-related fields. 		
	complex systems, foster critical thinking skills, and prepare them for graduate studies and professional careers in academia and industry.		
Virtual Reality	 VR environments simulate physical laboratories where students can conduct experiments, explore scientific phenomena, and analyze data in real-time. In computer science, virtual laboratories allow students to interact with complex systems, algorithms, and programming environments in a safe and controlled virtual space. VR laboratories provide hands-on learning experiences that complement traditional classroom instruction and promote experiential learning. Virtual Reality Tutorials and Simulations: VR tutorials and simulations 		

	provide practic scienc graphi securit solve prepar	e interactive learning experiences that enable students to e and apply their skills in realistic scenarios. In computer e, VR tutorials and simulations cover topics such as computer cs, artificial intelligence, computer networks, and cyber y. VR simulations allow students to interact with virtual objects, problems, and make decisions in dynamic environments, ing them for real-world challenges in the field.			
Augmented Reality	AR vis structu These annota relation presen educat	sualization tools enable students to visualize complex data ares, algorithms, and software architectures in a 3D space. tools provide interactive visualizations, animations, and tions that help students grasp abstract concepts and nships. AR visualization tools can be integrated into lectures, tations, and tutorials to enhance the clarity and effectiveness of ional content.			
	• AR coding challenges present students with interactive programming puzzles and tasks that require them to apply their coding skills to solve real-world problems. These challenges can be designed to promote collaborative learning, critical thinking, and problem-solving abilities among students.				
Robotics	 In Robotics students engage in hands-on learning experiences where they design, build, program, and operate robots to solve real-work problems. By working with physical robots, students gain practical experience in applying computer science principles, algorithms, and programming languages to control robot behavior and achieved desired outcomes in their projects. 				
Space Research	rch NA				
Environment Friendly Initiative:					
1. Water Harvesting		Yes Supporting Attached			
2. Waste Water Recycling		Yes Supporting Attached			
3. Solar Power Installation		Yes			
		Supporting Attached			

Signature of the Principal /Director Name: Seal: