Day 1
Topic: Capacity Building Programme for PGT
Day & Date: Thursday, 29 May 2025
Time schedule: 08:30 a.m. to 04:00 p.m.
Topics:
Session 1: 'AI for Research and Education'
Session 2: 'NEP 2020 Implementation: What PGTs Need to Accomplish in the Future'
Session 3: 'Innovative Digital Pedagogy'
Session 4: 'Differentiated Instruction Strategies for Mixed-Ability Classrooms'
Venue: SPS, Gurgaon
Speakers involved: Dr. Rajan Gupta, Director – Data Science & AI/ML at Deutsche Telekom, Smt. Kalpana Kapoor, Edupreneur, Mentor and Leadership Coach, Smt. Sonia Wadhwa, Head of Salwan Junior School, New Delhi, Additional Director IT at Salwan Education Trust, Smt Yogita Bablani, PGT, GD Salwan Public School, Smt. Rashmi Malik, Principal of SPS Gurgaon
Teachers involved: PGTs

Professional development programmes are instrumental in advancing teaching-learning methodologies and equipping educators with current pedagogical tools and strategies. In pursuit of this objective, Capacity Building Programme was conducted for Post Graduate Teachers (PGTs) by Salwan Educational Trust (SET). Renowned for its unwavering commitment to academic excellence and holistic educator development, Salwan Educational Trust has consistently taken the lead in fostering innovative teaching practices. This initiative reflects the SET dedication to empowering educators through meaningful professional learning experiences, thereby enhancing instructional competencies and promoting a culture of continuous professional growth. The session commenced with a warm welcome address by Smt. Rashmi Malik, Principal of Salwan Public School, Gurgaon.

Session I- 'AI for Research and Education'

The first session was conducted by Dr. Rajan Gupta, an accomplished expert in the field of Artificial Intelligence and Data Science. Dr. Gupta holds a Ph.D. and a Postdoctoral degree in Data Science and Computer Science. He currently serves as Director – Data Science & AI/ML at Deutsche Telekom, a Fortune 500 company, where he leads initiatives in productising Generative AI solutions. A distinguished AI practitioner, researcher, thought leader, author, and mentor, Dr. Gupta has been recognised among the *AI Makers 100* and *40 Under 40 in Data Science*. His extensive expertise and visionary insights have made significant contributions to the advancement of AI in both academic and industry domains. The session explored the transformative role of AI in education and professional development. Key areas included the financial and social impact of AI, the function

of AI systems in personalising learning, and the role of AI guidance tools in supporting educators. Dr. Gupta highlighted AI's applications in student engagement, assessment, and teacher development, emphasising the need for ethical use and human oversight. Tools such as ChatGPT, Perplexity, and NotebookLM were

discussed. AI-assisted platforms like Napkin.ai, PPT Gamma, and Trinka were introduced for streamlining presentations and academic writing. Assistive technologies like the Power of Voice app demonstrated AI's potential in supporting individuals with disabilities. The session, overall, underscored the importance of critical thinking, data privacy, and responsible AI integration in education.

Session II- 'NEP 2020 Implementation: What PGTs Need to Accomplish in the Future'

The second session was led by Smt. Kalpana Kapoor, a distinguished educationist and policy expert with extensive experience in academic leadership and teacher training. She talked about the importance of self-reflection, empathy, and fostering a culture of peace and harmony in schools. Her introduction of the **SQUAA** framework encouraged child-centric approaches and personalised support for students with varied needs.

She explained the shift from rote learning to competency-based and outcome-driven education, stressing the need for holistic development—integrating knowledge, skills, values, and attitudes. For senior classes, she highlighted the importance of divergent thinking, critical analysis, and curriculum mapping to address diverse learner profiles.

She also discussed strategies for identifying and supporting adolescent developmental needs—physical, cognitive, emotional, and social—alongside challenges posed by peer dynamics and social media. The session delved into the need for continuous teacher development, pedagogical adaptability, and inclusive practices. In conclusion, Smt. Kapoor urged PGTs to act as catalysts in transforming classroom practices, aligning them with NEP 2020's vision. Her session provided both inspiration and actionable strategies, empowering educators to create student-centred, future-ready learning environments.

Session III- 'Innovative Digital Pedagogy'

The third session, led by Smt. Sonia Wadhwa and Ms. Yojna Bablani, highlighted practical strategies for integrating technology in education. Smt. Wadhwa, an expert in digital pedagogy, emphasized tools and methods to boost student engagement and train teachers in modern, tech-driven classroom practices. The session offered a comprehensive overview of integrating technology with pedagogy to enhance student engagement and learning outcomes. Key distinctions were made between Adaptive Learning, driven by AI, and Personalized Learning, guided

by teachers and real-world applications. Ms Yojna Bablani emphasized on Practical AI tools like ChatGPT and Chat PDF were showcased for creating differentiated worksheets and NCERT-aligned content. Educators explored free resources such as Nearpod, CIET webinars, and university credit courses. Tips for effective AI integration included content verification, PDF management, and prompt specificity. The session empowered teachers with strategies to blend digital innovation and traditional methods, fostering inclusive, dynamic, and effective classroom experiences.

Session IV- 'Differentiated Instruction Strategies for Mixed-Ability Classrooms'

Smt. Rashmi Malik, Principal of SPS Gurgaon, delivered an inspiring fourth session on *Differentiated Instruction Strategies for Mixed-Ability Classrooms*, seamlessly blending her deep expertise in inclusive education with practical, actionable frameworks. Emphasising the importance of the first day and early weeks, she highlighted the need to build trust, understand students' transitions, and establish strong connections—especially in the critical first six months. She advocated for assessing learning styles using multiple intelligences, encouraging educators to adapt teaching methods to visual, auditory, and kinaesthetic learners, and to regularly reassess preferences. Her three-level assessment framework—spanning basic recall, comprehension, and application—empowers teachers to create differentiated question sets, ensuring every student is challenged appropriately. Smt. Malik also championed a classroom research approach, urging educators to document interventions, compare pre- and post-results, and use data-driven insights to refine teaching strategies. She underscored the value of collaborative teaching, cross-subject integration, and real-world applications, fostering a dynamic and supportive learning environment. Above all, her focus on empathy, innovation, and student support ensures that struggling learners are identified early and provided with targeted assistance. Smt. Malik's session stood out for its relevance, clarity, and unwavering commitment to student-centered excellence.

Smt. Sunita Jakhar delivered the valedictory address with grace and insight, reflecting on the key learnings from the sessions. She appreciated the active participation of educators and emphasised the importance of continuous professional growth. Her closing remarks inspired attendees to embrace innovation and uphold the vision of NEP 2020 in their teaching practices.

Conclusion
The Capacity Building Programme for PGTs at Salwan Public School empowered educators with innovative strategies in AI, NEP 2020 implementation, digital pedagogy, and differentiated instruction. The sessions fostered professional growth, collaboration, and a student-centric approach, inspiring teachers to embrace continuous learning and drive educational excellence aligned with NEP 2020.