

HEMRL, DRDO, PUNE CONDUCTED A ONE-DAY SHORT TERM COURSE TITLED “MODELLING OF NEXT GENERATION HIGH EXPLOSIVES (NEXT-2026)”

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High Energy Materials Research Laboratory (HEMRL), DRDO, Pune conducted a one-day short term course titled “Modelling of Next Generation High Explosives (NeXT-2026)” on January 8, 2026. The program was conceived as focused academic-industrial interface to deliberate upon emerging paradigms in the computational modeling and design of advanced high-energy materials like explosives and allied materials. About 150 delegates from academia, industry and research establishments like DRDO, ISRO, IITs, etc. participated in the program.



The inaugural session was graced by the Chief guest, Prof. (Dr.) Prateek Kishore, Director General, Armament & Combat Engineering (ACE) and Prof. Suresh Gosavi, Vice-Chancellor, Savitribai Phule University, Pune. Prof. (Dr.) Prateek Kishore highlighted the growing significance of high-performance computing, artificial Intelligence and simulation-driven methodologies in enabling precision-oriented development of future energetic materials. Dr. A P Dash, Director, HEMRL emphasized the necessity of predictive modeling frameworks to enhance both performance metrics and safety characteristics of next-generation explosive formulations. Dr. M B Talawar, Technology Director, HEMRL briefed the aims and objectives of the short term course.



The course comprised eight expert lectures delivered by eminent scientists, academicians and industry professionals, covering molecular modeling, AI-assisted retrosynthesis, material behavior under extreme thermo-mechanical stimuli, and vulnerability assessment of energetic systems. The program concluded with the panel discussion that facilitated intellectual exchange and strategic brainstorming on collaborative research between DRDO, academia and industry. The event reaffirmed HEMRL-DRDO's commitment to advancing research capabilities and shaping a robust roadmap for future developments in high-energy materials science and technologies.



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