



**REGIONAL ACADEMIC CENTRE FOR SPACE (RAC-S)**  
(A Joint Initiative of ISRO and NIT Kurukshetra)



**Ongoing Projects**

Dated: 21.02.2025

Sr. No.	Title
1	Key Management for secure multicast applications in space terrestrial integrated network <b>Principal Investigator:</b> Dr. Priyanka Ahlawat Computer Engineering Dept. NIT Kurukshetra
2	Development of a deep learning enabled algorithm for automatic modulation recognition in blind RF environment <b>Principal Investigator:</b> Prof. Brahmjit Singh Electronics Communication Engineering Dept. NIT Kurukshetra
3	Design and development of optical frequency comb source for DWDM application <b>Principal Investigator:</b> Dr. Karamdeep Singh Electronics and Communication Engineering Dept. NIT Kurukshetra
4	Experimental and numerical investigation of the flame deflector for conducting ground testing of cluster nozzle semi cryo stages <b>Principal Investigator:</b> Dr. Dushyant Singh Mechanical Engineering Dept. Dr. B.R. Ambedkar NIT Jalandhar

5	<p>Design and development of a system for storage of crucial data in mobile phone in an invisible form</p> <p><b>Principal Investigator:</b> Prof. Jitendra Kumar Chhabra Computer Engineering Dept. NIT Kurukshetra</p>
6	<p>Development of an efficient smishing detection technique for secure communication</p> <p><b>Principal Investigator:</b> Dr. Ankit Kumar Jain Computer Engineering Dept. NIT Kurukshetra</p>
7	<p>Security enhancement in non-terrestrial networks using machine learning</p> <p><b>Principal Investigator:</b> Prof. Brahmjit Singh Electronics and Communication Engineering Dept. NIT Kurukshetra</p>
8	<p>Development of UV resistant long phosphorescent nanofibres</p> <p><b>Principal Investigator:</b> Dr. Yashashchandra Dwivedi Department of Physics, NIT Kurukshetra</p>
9	<p>Self-healing flexible pavement using waste oil capsules as rejuvenators</p> <p><b>Principal Investigator:</b> Dr. Praveen Aggarwal Civil Engineering Dept. NIT Kurukshetra</p>