MD.30.	
Title	TUMnanoSAT's satellite modules for research of the nanosensors properties in space radiation conditions
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Institution	Technical University of Moldova / Space Technologies Center
Patent no.	Project Nr. 20.80009.5007.09 "Development and launch of the series of nanosatellites with research missions on the International Space Station, monitoring, postoperating and promoting space technologies"
Description EN	The Nanosensors have become an area of great interest due to their advanced properties. In order to research the

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performance of nanosensors in space radiation conditions, satellite modules have been developed for the TUMnanoSAT nanosatellite. The TUMnanoSAT nanosatellite was developed and manufactured by the Space Technology Center of the Technical University of Moldova. A series of modules for testing nansensors behavior in space conditions was developed by the TUM's nanomaterials research center in the fields of material science and nanotechnologies in cooperation with Space Technologies Center. These results of space testing will be useful focused on the development of new nanomaterials and nano-devices for various applications, including electronics, photonics, bio-medicine, radiation detection.

The modules will allow the collection of experimental data from the orbit in spatial conditions, for further processing that

will favor the improvement of the properties of nanosensors based on zinc oxide.

14. Other – Nanosensors / Space Technologies

Class no.