

"Space Data" Module



The engineering of space data reception and spacecraft control belongs to the field of the ground segment of astronautics and is primarily focused on wireless communication technologies in general and radio engineering in particular. The educational complex is designed to study the basics of receiving space data, and in particular radio communications in the range of ultrashort waves (VHF).

Education Experience:

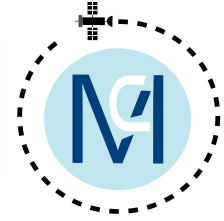
- ✓ Software for signal reception
- ✓ Satellite tracking software
- ✓ Signal decoding software
- ✓ Calculation and assembly of the antenna
- ✓ Signal reception and processing"

Engineering Skills:

- Students will get acquainted with the basics of spacecraft movement,
- radiophysics,
- antenna calculation and design,
- radio data decryption,
- communication window prediction.
- In practice, antenna calculation and assembly,
- study of satellite tracking software in orbit,
- signal reception and decoding from real satellites (NOAA) are provided.
- The kits for practical classes include methodological materials for the teacher, revealing the work with space data.

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Physics Skills: radio physics

Computer Science Skills: work with application software

Hardware and Materials:

-  VHF radio - 5 Sets
-  Low noise amplifier – 5 Sets
-  Set of electronic components – 5 Sets
-  Set of cables – 5 sets
-  A set of antenna design elements Kit specification – 5 Sets

