INTRODUCTION TO ENGINEERING EDUCATION

(course title)

COURSE SYLLABUS ABSTRACT
of higher education institution
speciality

Specialty 1-70 03 01 Road Construction

	STUDY MODE
	full-time
Year	1
Semester	2
Lectures, hours	16
Practical classes (seminars), hours	16
Offset, semester	2
Contact hours	32
Independent study, hours	58
Total course duration in hours / credit units	90

1. The discipline "Introduction to Engineering Education" is read for 1st year students of the specialty 1-70 03 01 "Roads". Students studying the discipline should obtain from it general information about the road construction specialty, the technique of teaching at the university, the history of the development of road construction, get acquainted with the main directions of technical progress in the construction and operation of roads, consider briefly the road as a complex of complex engineering structures, requiring knowledge of fundamental and applied disciplines, to delve into the essence of engineering creativity, in relation to their specialty.

2. As a result of studying the discipline, the student must know: - general information about transport, classification of modes of transport, social and economic significance of highways; - information about the Belarusian-Russian University, the importance of lectures for a future engineer, methods of preparing for exams and tests, be able to take notes on lecture material; - the history of road development and road construction; - to present a modern highway as a complex of complex engineering structures and see unresolved problems in the road industry; - to understand the place of an engineer in modern life, the properties necessary for a qualified engineer, to know the process of designing engineering objects; be able to: - work with scientific, technical and reference literature; - prepare reports, materials for presentations and make presentations; - work independently; - search, systematize and analyze information on industry development prospects, innovative technologies, projects and solutions. own: - practical skills related to the use of technical devices, information management and computer work - terminology accepted in the practice of designing, building and operating roads.

3. As a result of mastering the discipline, the student must have the following competencies: УК-5 Be capable of self-development and improvement in professional activities

4. Requirements and forms of current and intermediate certification. The following forms are used to diagnose competencies: - intermediate preparation of abstracts on individual topics, reports - current - Submitting an account.