



Academic discipline

Composites and polymers in art

Specialities: 131 Applied Mechanics; 133 Industrial Machinery Engineering; 134 Aerospace Engineering; 141 Power Engineering, Electrical Engineering and Mechanics; 142 Power Engineering; 274 Automobile Transport

Рівень вищої освіти	<i>first (bachelor)</i>
Статус дисципліни	<i>selective</i>
Обсяг дисципліни	150 hours/ 5 credits
Мова викладання	<i>English</i>
Що буде вивчатися (предмет вивчення)	The course is recommended for students who want to understand the role of polymer and composite materials in decorative and aesthetic art. The main issues studied in this course are: - variety of applications for polymer and composite structures; - assortment and main properties of filled and unfilled polymers used in decorative and aesthetic art; - technological features of polymer products manufacturing and decoration with composite.
Чому це цікаво/треба вивчати (мета)	The goal is to introduce students to the basics, perspectives and main directions of using polymers and composites in decorative and aesthetic art. The task is to teach how to operate an assortment of polymer and composite materials in the products manufacture, taking into account the features of the desired object shape
Як можна користуватися набутими знаннями і уміннями (компетентності)	As a result of studying the academic discipline, the student should know: - the main directions of polymers and composites using in modern art; - aspects of displaying the desired shape in flat and three-dimensional products made of polymers and composites; - basic principles and equipment for the polymer and composite products manufacturing. be able: - choose the main polymer materials for decorative and aesthetic products; - analyze various manufacturing technologies; - create a working geometric shape of the product; - reproduce the given polymer objects of decorative purpose
Пререквізити	Studying the course is based on general knowledge of such disciplines as "Sketch geometry", "Materials science", "Technology of construction materials".
Кореквізити	The course is important for studying courses that require knowledge of the manufacture of polymer and composite structures
Організація навчання	Types of classes: lectures, practical classes, individual consultations (if necessary), independent work of students based on materials published by the department (methodical manuals). Forms of obtaining education: daily, distance Forms of control: participation in lectures, remote test assignments, performance of laboratory work. Conducting current control, written modular control, final control in the form of an exam
Кафедра	403
Факультет	<i>Rocket and space engineering</i>

Викладач		ПІБ	Svitlana Purhina
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Посилання на електронні матеріали курсу	https://mentor.khai.edu/course/		
Посилання на робочу програму (силабус)			