Major. Technology of Aircraft Manufacturing Department (104)

Graduation Thesis of the Bachelor

Level of Higher Education	*first (Bachelor)*
Course Status	*student's choice*
Scope of discipline	270 hours / 9 ECTS credits
Language	*Ukrainian / English*
What will be studied (subject of study)	As a result of writing the final work, the applicant for education studies the object of research and solves the tasks. The work consists of several sections, special attention is paid to writing the technological section. Design section: development of the design of the assembly and parts of the aircraft with the justification of the decisions made and the preparation of the necessary technical documentation. Technology section: – drawing up a technological route for manufacturing by machining; – development of technological operations for mechanical processing and design of a special machine jig; – development of directive technological materials for the assembly unit; – development of technological documentation for assembly work; – selection of the scheme of the assembly jig. or – selection of a workpiece for the manufacture of a stamped part and a die scheme; – die design, equipment selection. Economic section: calculation of the cost of manufacturing a part and assembling a unit with aggregated indicators.
Why is it interesting/should be studied (goal)	The studies carried out by the student to solve the problem desired demonstrate his knowledge, skills and abilities obtained in the study of specialized disciplines during the period of study. Structured and substantiated scientific work shows the student's competence in front of the certification committee. Self-prepared creative work allows to get an assessment and a bachelor's degree. The Bachelor of Engineering degree has a strong emphasis on practical activities and allows the graduate to find a job in the relevant aircraft or engineering industry
How can you use the acquired knowledge and skills (competencies)	Ability to communicate in the state language both orally and in writing. Skills in the use of information and communication technologies. The ability to generate new ideas (creativity). Ability to learn and master modern knowledge. The ability to develop and implement technological processes for the production of parts and objects of aviation equipment. The ability to ensure the quality of information technology products and services throughout their life cycle. The ability to choose methods of calculation, design and production, considering the characteristics of different types of aviation equipment
Prerequisites	
Corequisite	
Organization of training	Types of occupations: consultations, independent Forms of education: full-time / part-time Forms of control: exam
Department	Technology of Aircraft Manufacturing

Faculty	Aircraft Engineering			
Teachers	Name	**Kateryna Maiorova**	Name	**Volodymyr Borysevych**
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Links to course materials	1. Електронні ресурси до дисципліни у електронній системі дистанційного навчання Ментор. 2. Разработка технологического процесса и инструмента импульсной клепки авиационных конструкций из углепластика / Кривцов В.С., Нечипорук Н.В., Воробьев Ю.А., Воронько В.В.// Монографія. – Х.: Нац. аэрокосм. ун-т «Харьк. авиац. ин-т», 2012. – 122 с 3. Проектирование специальных станочных приспособлений. В.В. Воронько, Ю.В. Дьяченко, С.Д. Проскурин, В.Т. Сикульский. – Учебное пособие по курсовому и дипломному проектированию. – Х.: Нац. аэрокосм. ун-т «ХАИ». 2006. – 66 с. 4. Программирование обработки на станках с ЧПУ / Ю.А. Боборыкин, Ю.В. Дьяченко, А.В. Пьянков. – Учеб. пособие для курсового и дипломного проектирования. – Х.: Гос. аэрокосм. ун-т "Харьк. авиац. ин-т. 2000. – 100 с. 5. Проектирование постпроцессоров для оборудования гибких производственных систем / Ю.В. Дьяченко, В. Е. Зайцев, А. А. Павленко, А.В. Пьянков. – Учеб. пособие по курсовому и дипломному проектированию. – Х.: Нац. аэрокосм. ун-т «Харьк. авиац. ин-т», 2001. – 100 с. 6. Гибкие производственные системы в авиастроении / В.С. Кривцов, С.Г. Васильченко, Ю.В. Дьяченко, В.Е. Зайцев. – Учеб. пособие по курсовому и дипломному проектированию. – Х.: Нац. аэрокосм. ун-т «Харьк. авиац. ин-т», 2001. – 98 с. 7. Современные технологии агрегатно-сборочного производства самолетов / Пекарш А.И., Тарасов Ю.М., Кривов Г.А., Воробьев Ю.А. и др. – М.: Аграф-пресс, 2006. – 304 с. 8. Borysevych V.V., Danchenko V.G., Zastela A.N., Mesheryakov A.N., Morgolenko A.S., Kharkiv, KhAI, 2009, 65p.
Link to work program (syllabus)	