

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

Description of the study programme – outline¹

Name of the higher education institution: Alexander Dubček University of Trenčín

Address of the higher education institution: Študentská 2, 911 50 Trenčín

Identification number of the higher education institution: 719000000

Name of the faculty: Faculty of Industrial Technologies

Address of the faculty: I. Krasku 491/30, 020 01 Púchov

Institution body for approving the study programme: Internal Evaluation Board Alexander Dubček University of Trenčín

Date of the study programme approval or the study programme modification: 22.06.2022

[Zapisnica c. 4 2022 zo dna 22.06.2022.pdf \(tnuni.sk\)](#)

Date of the latest change² in the study programme description: 22.06.2022

[Zapisnica c. 4 2022 zo dna 22.06.2022.pdf \(tnuni.sk\)](#)

Reference to the results of the latest periodic review of the study programme by the institution:

[Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Rada pre vnútorné hodnotenie TnUAD \(tnuni.sk\)](#)

Reference to the assessment report of the application for accreditation of the study programme under § 30 of Act no. 269/2018 Coll.³: [c\) Internal Assessment Report of the Study Programme](#)

1. Basic information about the study programme

a) Name of the study program and its number according to the register of study programmes.

Materials, 104052

b) Degree of higher education and ISCED-F education degree code.

III. level higher education, ISCED-864 (academically oriented doctoral study program) according to: [3772.pdf \(minedu.sk\)](#)

c) Place(s) of delivery of the study programme.

Púchov, I. Krasku 491/30

d) Name and number of the field of study in which higher education is obtained by completing the study programme, or a combination of two fields of study in which higher education is obtained by completing the study programme, ISCED-F codes of the field/fields⁴.

36. Mechanical engineering / 0700 Engineering/mechanical engineering, production and construction not further defined

e) Type of the study programme: academically oriented, professionally oriented; translation, translation combination study programme (listing the specializations); teaching, teaching combination study programme (listing the specializations); artistic, engineering, doctoral, preparation for regulated profession, joint study programme, interdisciplinary studies.

academically oriented

f) Awarded academic degree.

PhD.

g) Form of study⁵.

full-time

h) In the case of joint study programmes, cooperating institutions and the range of study obligations the student fulfills at each of the given institutions (§ 54a of the Act on Higher Education Institutions).

i) Language or languages in which the study programme is delivered⁶.

Slovak

j) Standard length of the study expressed in academic years.

4 academic years

k) Capacity of the study programme (planned number of students), the actual number of applicants and students.

Capacity of the study programme = planned number of students in all years of study: 15

Actual number of students in all years of study: 13

Planned number of students in the first year of study in academic year 2022/2023: 3

Actual number of applicants: 5

Actual number of students in the first year of study: 3

2. Graduate profile and learning objectives

¹ The institution compiles a description of the study programme as an annex to the application for accreditation of the study programme.

- When submitting an application pursuant to § 30 (1) of Act no. 269/2018 Coll. the higher education institution states in the description only the data available at the time of application.
- Once the accreditation (or the internal approval of the study programme by the institution programme approval authority with the right to design programmes within the given field and degree) has been granted, the institution permanently makes the description available to the stakeholders of the study programme.
- The institution may choose the form of processing, visualization, and publication of the description, suitable for students, teachers and another users.
- In individual parts of the description, the institution may refer to another internal document that sufficiently describes the relevant area and is publicly available.
- In individual parts of the description, the institution may refer to a place in the information system which contains the relevant up-to-date information.
- The institution ensures that the description is up-to-date (if the change in the description is in the nature of a modification of the study programme and the change is made in accordance with § 30 (9) of Act No. 269/2018 Coll., the institution makes the change and publishes it only after approval by the Agency).

² If the change is not a modification of the study programme according to § 30 of Act no. 269/2018 Coll.

³ It is stated only if the accreditation of the study programme has been granted according to § 30 of Act no. 269/2018 Coll.

⁴ According to the International Standard Classification of Education. Fields of Education and Practice 2013.

⁵ According to § 60 of Act no. 131/2002 Coll. on Higher Education Institutions.

⁶ It means the languages in which all learning outcomes are achieved and all related courses of the study programme as well as the state examinations are carried out. The institution independently provides information on the possibility of partial study parts/courses in other languages in part 4 of the description.

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

- a) The institution defines the learning objectives of the study programme such as student's abilities at the time of completion of the programme and the main learning outcomes⁷.

Learning Outcomes (described using the Dublin descriptors)	
1. Knowledge and understanding:	The graduates demonstrate systematic deep knowledge in the field of physical, mechanical and chemical properties of materials and composite systems, their complex diagnostics and computer simulation of their loads and parameters. They have comprehensive knowledge and experimental skills needed for research and development of new materials with specific properties. They master the scientific methods of research and development of new materials and composites, as well as the technologies of their production and processing into semi-finished and final products. They thoroughly master the links between research-development-production-use-recycling, scientific problem formulation, legal and environmental aspects of new products, presentation of results, as well as the development of the field of study and its contribution to practice. They can independently solve problems from a wide range of construction materials and based on deep theoretical knowledge to predict their properties. They are able to bring and apply their own solutions to problems in the field of materials and engineering.
2. Applying knowledge and understanding	The graduates demonstrate a systematic understanding of the field of study, demonstrate a thorough acquisition of skills and methods of scientific research associated with the research of materials, corresponding to the current state of knowledge in the field of Mechanical Engineering. They can prove that they carried out a substantial part of the research within the dissertation themselves – including their ability to design, construct, implement and modify a substantial part of research in the field of materials and mechanical engineering with scientific integrity. Their application of knowledge, the realization of research papers and their publication is guided by social and ethical responsibility.
3. Making judgements	The graduates contributed the original results of their research to broaden the boundaries of scientific knowledge in the field of materials science, especially through the implementation of an extensive set of works, some of which are worthy of peer-reviewed publications. They are capable of critical analysis, evaluation and synthesis of new and complex concepts of design, development, preparation, implementation, use and end of life cycle of products made of technically important materials and composites.
4. Communication	The graduates are experts in their field of research, they can clearly and unambiguously communicate conclusions, knowledge, concepts and solutions within their field of expertise with colleagues, wider scientific community and general public.
5. Learning skills	The graduates have developed skills to educate themselves, improve and deepen their professional knowledge and skills, reflecting current trends in international research and technological development in the material production and engineering industries. They are able to support technical progress in the field of materials and mechanical engineering and can significantly contribute to technical development and social progress in scientific research and professional practice in both academic and professional context.

Learning objectives are described in the information sheets of individual courses.

- b) The institution indicates the professions for which the graduate is prepared at the time of completion and the potential of the study programme from the point of view of graduate's employability.

An overview of the professions for which the graduate is prepared
<p><u>The specialist in the field of mechanical engineering and materials</u></p> <ul style="list-style-type: none"> • The specialist in production management • The specialist in quality control • The specialist in material research and development • The specialist in materials diagnostics • The specialist in design and construction • The specialist in numerical modelling and simulations <p><u>The manager in the field of mechanical engineering and materials</u></p> <ul style="list-style-type: none"> • The manager in production management • The manager in material research and development • The manager in quality control <p><u>The university employee in the field of science, research and education</u></p>

The graduates of the study program Materials are prepared to solve the most demanding tasks of technical practice related to improving the quality properties of existing materials, improve the technical side of production of materials, components, tools and utility items, including innovative design and greening of production processes. They are able to work independently in a scientific team and, after incorporation, to manage the work of a research team. They are ready to creatively develop and deepen knowledge in the field of mechanical engineering. They can be employed in research institutes, universities, as well as in top management positions of companies focused on metal, polymer, inorganic or textile materials, thin films, diagnostics and testing.

⁷ Learning objectives are achieved in the study programme through measurable learning outcomes in individual parts (modules, subjects) of the study programme corresponding to the relevant level of the Qualifications Framework in the European Higher Education Area.

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

- c) Relevant external stakeholders who have provided the statement or a favorable opinion on the compliance of the acquired qualification with the sector-specific requirements for the profession⁸.

The statements of external stakeholders are available at: [f\) Opinion of the Relevant Involved Subjects](#)

3. Employability

- a) Evaluation of the study programme graduates employability.

The coefficient of employment of the graduates in the field for 2021 is 100%

- b) If applicable, indicate the successful graduates of the study programme.

Graduates of the study programme find employment in industrial practice, at the Faculty of Industrial Technologies in Púchov, or at other TnUAD workplaces in Trenčín. Examples of successful graduates of the study program are given in the document available at: [Dalsie relevantne dokumenty](#)

- c) Evaluation of the study programme quality by employers (feedback).

The evaluation of the study program quality by employers is documented from two points of view: in the form of the employer feedback on students' practice during their studies and in the form of the employers' comments on the study program quality and the applicability of graduates in practice. The employers' statements are available at: [f\) Stanoviska relevantných zainteresovaných stran](#)

4. Structure and content of the study programme⁹

- a) The institution describes the rules for the design of study plans within the study programme.

The study program follows up the II. level study program (Materials Engineering) carried out at the Faculty of Industrial Technologies in Púchov.

The study plan consists of a group of compulsory and compulsory elective courses and is designed so that students can choose the appropriate combination of compulsory elective courses that best corresponds with the focus, objects and research methods of their dissertation thesis. Students develop their scientific integrity and the ability to design, construct, implement and modify a substantial part of research in the field of Materials and Mechanical engineering mainly within the courses: Individual study of professional literature I, II, Scientific activity I, II, III, IV, V, VI, VII and Dissertation Project I, II. All combinations of the courses of the study programme are good prerequisite for quality training of the graduates - experts in their field of research, who will be able to support technical progress in the field of materials and mechanical engineering and can significantly contribute to technical development and social progress in scientific research and professional practice in both academic and professional context.

The general rules are given by the internal directive – the TnUAD Study Regulations. The document is available at: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Študijný poriadok \(tnuni.sk\)](#)

- b) The institution compiles the recommended study plans for individual study paths¹⁰.

The recommended study plans are in the file „M_PhD_recommended_study_plan“, which is available at the address: [b\) Study Plane](#) and they are also available for students on the faculty's website: [Fakulta priemyselných technológií v Púchove: Študijné plány \(tnuni.sk\)](#)

- c) The study plan generally states:

- individual parts of the study programme (modules, courses, and other relevant school and extracurricular activities, if they contribute to the achievement of the required learning outcomes and allow to obtain credits) in the structure of compulsory, compulsory optional and optional courses,
 - **profile courses** of the relevant study path (specialization) within the study programme,
 - for each learning part/course the learning outcomes, related criteria and rules of their assessment so that the learning objectives of the study programme are met (they can be stated only in the Course information sheets, in the Learning outcomes section and in the Course completion requirements),
 - prerequisites, co-requisites and recommendations for the design of the study plan,
 - for each learning part of the study plan/course the applied educational activities (lecture, seminar, exercise, final work, project work, laboratory work, internship, excursion, field practice, professional practice, state exam, etc. or their combinations) suitable for achieving learning outcomes,
 - methods by which the educational activity is delivered – present, distant, combined (in accordance with the Course information sheets),
 - **method by which the educational activity is delivered is present method**
 - outline/syllabus of the course¹¹,
- The content of educational activities and study materials of each course are part of the information sheets, that are available at: [Fakulta priemyselných technológií v Púchove: Informačné listy \(tnuni.sk\)](#) and in the document Course Information sheets, available at: [b\) Study Plane](#)*
- student workload ("extent" of individual courses and educational activities separately)¹²,
 - credits allocated to each part based on the learning outcomes achieved and the workload involved,

⁸ In the case of regulated professions in accordance with the requirements for the acquisition of professional competence pursuant to a special regulation.

⁹ Selected characteristics of the content of the study programme can be stated directly in the Course information sheets or supplemented by the information of the Course information sheets.

¹⁰ In accordance with Decree no. 614/2002 Coll. on the study credit system and Act no. 131/2002 Coll. on Higher Education Institutions and on Amendments to Certain Acts.

¹¹ During the assessment, teachers responsible for the course will allow the working group access to the study materials of the course and the content of individual educational activities.

¹² We recommend indicating the workload of contact and non-contact teaching in accordance with the ECTS Users' Guide 2015.

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

- the person responsible for the course (or a partner organization/person¹³) with an indication of the contact details,
 - course teachers (or participating partner organizations/persons) (may also be mentioned in Course information sheets),
 - places where the courses are taught (if the study programme is delivered at several workplaces).
- d) The institution states the number of credits, the achievement of which is a condition for proper completion of studies and other requirements that the student must meet within the study programme and for its proper completion, including the requirements for state examinations, rules for re-study and rules for the extension, interruption of study.
The number of credits needed for proper completion of the study programme is 240; other conditions are given by the internal directive – the TnUAD Study Regulations. The document is available at: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Študijný poriadok \(tnuni.sk\)](#)
- Information and conditions for writing and submitting theses for graduating students are available online at: [Fakulta priemyselných technológií v Púchove: Končiaci študenti \(tnuni.sk\)](#) and in the internal guidelines for the submission and preparation of the final theses.**
- e) For individual study plans, the institution states the requirements for completing the individual parts of the study programme and the student's progress within the study programme in the given structure:
- number of credits for compulsory courses required for proper completion of studies/completion of a part of studies, **200 credits**
 - number of credits for compulsory optional courses required for the proper completion of studies/completion of a part of studies, **40 credits**
 - number of credits for optional courses required for the proper completion of studies/completion of a part of studies, -
 - number of credits required for the completion of studies/completion of a part of the studies for the common foundations and for the relevant specialization, in the case of a teaching combination study programme or a translation combination study programme, **this is not the case**
 - number of credits for the final thesis and the defence of the final thesis required for the proper completion of studies, **30 credits**
 - number of credits for professional practice required for the proper completion of studies/completion of a part of studies, **professional practice is not part of the study plan**
 - number of credits required for the proper completion of studies/completion of a part of the studies for project work with the indication of relevant courses in engineering study programmes, **240 credits are required for proper completion of studies. / In addition to the preparation of the dissertation thesis and its defence (30 credits), the dissertation project I and its defence (18 credits), the dissertation project II (18 credits) and another 2 compulsory courses (16 credits) and 6 compulsory elective courses (48 credits) are devoted to the project work.**
 - number of credits required for the proper completion of studies/completion of a part of the studies for artistic performances in addition to the final thesis in art study programmes.
The study plan does not require artistic performances.
- f) The institution describes the rules for verification of learning outcomes, students assessment and the possibilities of appealing against the assessment.
Verification of learning outcomes and their assessment are specified in the TnUAD Study Regulations (Articles 24 to 27), the possibilities of appealing against the assessment lie in another corrective examination date. Partial and final assessment of learning outcomes also depends on the type of the course. Assessment rules and requirements for the credit allocation are explained in detail, usually within the first lesson and they are also published in the information sheet of each course. Corrective procedures of partial assessment in justified cases (absence of a student at consultations due to illness, serious family matters, etc.) allow the provision of additional time to complete the assigned work (e.g. project ...) or further consultation.
- g) Conditions for recognition of studies or a part of studies.
All conditions are listed in the Article 20 of the TnUAD Study Regulations, which is available at: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Študijný poriadok \(tnuni.sk\)](#)
- h) The institution states the topics of final theses of the study programme (or a link to the list).
The topics of final theses for the academic year 2020/2021 are listed in the document "M_PhD_zoznam_záverečných_prác", which is available at: [Dalsie relevantne dokumenty](#)
- i) The institution describes or refers to:
- rules for the assignment, processing, opposition, defense and evaluation of final theses in the study programme, **all necessary instructions are given in the Organizational Guidelines for the preparation of final theses at Faculty of Industrial Technologies in Púchov, available online at: [Fakulta priemyselných technológií v Púchove: Končiaci študenti \(tnuni.sk\)](#)**
 - opportunities and procedures for participation in student mobility, **ensured by the faculty coordinator prof. Ing. Ján Vavro, PhD.; e-mail: jan.vavro@tnuni.sk; +421/42 2851812 and Erasmus+ department: [Erasmus+ TnUAD: Úvod \(tnuni.sk\)](#)**
 - rules for adherence to academic ethics and rules for drawing consequences, **the rules of academic ethics are listed in the Code of Ethics of the Alexander Dubček University of Trenčín and in the TnUAD Study Regulations, which are available at: [Fakulta priemyselných technológií v Púchove: Dokumenty \(tnuni.sk\)](#), , and also in the appendix Ethics of publishing and plagiarism of the Organizational Guidelines for the preparation of final theses at the Faculty of Industrial Technologies in Púchov, available at: [Fakulta priemyselných technológií v Púchove: Končiaci študenti \(tnuni.sk\)](#)**

¹³ E.g. when providing the professional practice or other educational activities carried out outside the university.

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

- procedures applicable to students with special needs,
 - students with special needs can contact the faculty coordinator [Kontakt na koordinátorov \(tnuni.sk\)](#) and all information are available at the website of the Support Centre: [Úvod \(tnuni.sk\)](#)
 - procedures for filing complaints and appeals by students.
The submission of complaints and appeals by the students is enabled by the TnUAD Study Regulations, available at: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Študijný poriadok \(tnuni.sk\)](#)
- 5. Course information sheets of the study programme**
*In the structure according to Decree no. 614/2002 Coll.
Course information sheets are available in the AIS, at the website: [Fakulta priemyselných technológií v Púchove: Informačné listy \(tnuni.sk\)](#) and in the document: available at: [b\) Study Plane](#)*
- 6. Current academic year plan and current schedule** (or hyperlink).
*Academic year plan: [Fakulta priemyselných technológií v Púchove: Harmonogram štúdia \(tnuni.sk\)](#)
Schedule: [Fakulta priemyselných technológií v Púchove: Rozvrh hodín ZS 2022/2023 \(tnuni.sk\)](#)*
- 7. Persons responsible for the study programme**
- a) A person responsible for the delivery, development, and quality of the study programme (indicating the position and contact details).
prof. Ing. Darina Ondrušová, PhD.; position professor, the dean of the faculty; darina.ondrusova@tnuni.sk; +421/42 2851826
 - b) List of persons responsible for the profile courses of the study programme with the assignment to the course and provided with a link to the central Register of university staff and with contact details (they may also be listed in the study plan).
Teachers of the profile courses with their contact information and the link to the central Register of university staff are listed in the document Recommended Study Plan, which is available at: [b\) Study Plane](#)
 - c) Reference to the research/art/teacher profiles of persons responsible for the profile courses of the study programme.
The research/art/teacher profiles of persons responsible for all courses of the study programme are available at: [d\) VUPCH ucitelia zabezpečujúci profilové predmety](#)
 - d) List of teachers of the study programme with the assignment to the course and provided with a link to the central Register of university staff and with contact details (may be a part of the study plan).
The list of the teachers is provided in the document Recommended Study Plan, which is available at: [b\) Study Plane](#)
 - e) List of the supervisors of final theses with the assignment to topics (indicating the contact details).
*The supervisors of the final theses with their contact information are listed in the document "M_PhD_zoznam_záverčných_prác", which is available at: [Dalsie relevantne dokumenty](#)
The list of the supervisors of final theses is also available in the system AIS.*
 - f) Reference to the research/art/teacher profiles of the supervisors of final theses.
The research/art/teacher profiles of the supervisors of the final theses are available at: [2022_VUPCH](#)
 - g) Student representatives representing the interests of students of the study programme (name and contact details).
The student representative in the Study Program Council is Ing. Silvia Ďurišová; silvia.durisova@student.tnuni.sk and during modifications graduate Ing. Michal Štefan was also the student representative; michal.stefan@student.tnuni.sk. The student representatives were elected by the student section of the Academic Senate (AS) of the Faculty of Industrial Technologies; The Minutes of the extraordinary meeting of the student section of the AS of the Faculty of Industrial Technologies dated 25.6.2021.
 - h) Study advisor of the study programme (indicating contact details and information on the access to counselling and on the schedule of consultations).
*The study advisor: Ing. Dana Bakošová, PhD.; dana.bakosova@tnuni.sk;
[Fakulta priemyselných technológií v Púchove: Študijní poradcovia \(tnuni.sk\)](#)*
 - i) Other supporting staff of the study programme – assigned study officer, career counselor, administration, accommodation department, etc. (with contact details).
*Study officer - [Fakulta priemyselných technológií v Púchove: Kontakt \(tnuni.sk\)](#)
Accommodation department – [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Školský internát Púchov \(tnuni.sk\)](#)
Mobility: [Erasmus+ TnUAD: Úvod \(tnuni.sk\)](#)
Social department: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Štipendia a pôžičky \(tnuni.sk\)](#)
Information for students with specific needs: [Úvod \(tnuni.sk\)](#)
Library: [Univerzitná knižnica TnUAD: OZNAMY a PODUJATIA \(tnuni.sk\)](#); [Fakulta priemyselných technológií v Púchove: Fakultná knižnica \(tnuni.sk\)](#)
Job offers: [Fakulta priemyselných technológií v Púchove: Pracovné ponuky \(tnuni.sk\)](#)*
- 8. Spatial, material, and technical provision of the study programme and support**
- a) List and characteristics of the study programme classrooms and their technical equipment with the assignment to learning outcomes and courses (laboratories, design and art studios, studios, workshops, interpreting booths, clinics, priest seminaries, science and technology parks, technology incubators, school enterprises, practice centers, training schools, classroom-training facilities, sports halls, swimming pools, sports grounds).
*List of the classrooms and the laboratories and their technical equipment and characteristics is available at [Ucebne a laboratoria na FPT.pdf \(tnuni.sk\)](#)
[Fakulta priemyselných technológií v Púchove: Laboratória a možnosti spolupráce \(tnuni.sk\)](#)*

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

- b) Characteristics of the study programme information management (access to study literature according to Course information sheets, access to information databases and other information sources, information technologies, etc.).
*The students have access to study literature through the faculty library and the university library: [Univerzitná knižnica TnUAD: OZNAMY a PODUJATIA \(tnuni.sk\)](#) ; [Fakulta priemyselných technológií v Púchove: Fakultná knižnica \(tnuni.sk\)](#). Study materials for individual courses are available to the students via the Microsoft Office 365 applications (e.g. Teams, OneDrive, SharePoint) and via the e-learning.
[E-learning TnUAD \(tnuni.sk\)](#).*
- c) Characteristics and extent of distance education applied in the study programme with the assignment to courses. Access, manuals of e-learning portals. Procedures for the transition from contact teaching to distance learning.
Extent of education is stated in the study plan and in the information sheets of the courses: [b\) Study Plane](#)
- d) Institution partners in providing educational activities for the study programme and the characteristics of their participation.
*Overview of the partners of the Faculty of Industrial Technologies: [Fakulta priemyselných technológií v Púchove: Partneri FPT v Púchove \(tnuni.sk\)](#).
The partners take part in the annual presentation and offer internships for students and work for future graduates; specialists participate in selected lectures on specific topics within selected professional courses; they enable excursions for students, participate in solving of the final theses and scientific research projects, etc. on the basis of the current cooperation agreements. (Continental Matador Rubber, s.r.o. Púchov, RONA, a.s. Lednické Rovne, Konštruktúra Industry, a.s., Matador Industries, a.s., ZF Slovakia, a.s. Trnava, Výskumný ústav textilnej chémie – CHEMITEX, s.r.o. Žilina, Výskumný ústav chemických vlákien, a.s. Svit, Thyssenkrupp rothe erde Slovakia, a.s. Považská Bystrica, Mikon, s.r.o. Pruské, Chemosvit Fibrochem, a.s. Svit, ADIENT SLOVAKIA, s.r.o. Trenčín, BAMIPA, s.r.o. Topoľčany etc.).*
- e) Characteristics of the possibilities for social, sports, cultural, spiritual and social activities.
Accommodation
The faculty provides accommodation for students in a contracted accommodation facility located directly on the faculty premises: I. Krasko Dormitory, Púchov: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Školský internát Púchov \(tnuni.sk\)](#). In cooperation with the university, there is also the possibility of accommodation in the Záblatie Student Dormitory [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Ubytovanie \(tnuni.sk\)](#).
- Sport facilities**
There are two modernized gyms at the university with the possibility to play basketball, floorball, futsal, volleyball, table tennis, badminton. The gym on Študentská Street includes a fitness centre.
- University Pastoral Center**
Students of the faculty can use the services of the University Pastoral Centre of St. Andrej Svorad Benedikt at the Alexander Dubček University of Trenčín, which has been established since 2009 and is part of the Slovak UPC network at all Slovak universities. The UPC creates space and provides opportunities for personal development and meetings not only for the students and the TnUAD employees, but also for the public. In addition to leisure activities (library, table football, audio system, silence zone with spiritual and social literature), students can also use psychological, pastoral, spiritual counselling. [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Univerzitné pastoračné centrum \(tnuni.sk\)](#)
- Prof. Alojz Cvach Astronomical Observatory**
The Astronomical Observatory is a purpose-built facility of the Alexander Dubček University of Trenčín and the Trenčín Self-Governing Region, the aim of which is to popularize the natural, technical and human sciences. In addition to the observatory, there is also an astronomical club. The observatory offers students the opportunity to observe the night sky, popular lectures, discussions with experts on topics from various fields of science and technology, travel lectures, club activities, etc. The observatory, in cooperation with other courses operating in Trenčín, organizes various activities, such as:
- scientific-popularization conference "Maximilian Hell's Days",
 - spring school of particle physics for high school students "Masterclasses",
 - "Traveling Observatory",
 - "Sun in summer",
 - "Music Observatory".
- [Astronomická pozorovateľňa prof. Alojza Cvacha: Úvodná stránka \(tnuni.sk\)](#)
- Student centre and Radio TrenchTown**
*Reconstruction of the premises at the university created the first unique open space for students with an area of approximately 85 m², divided into a working and a leisure area, which is complemented by a separate glass meeting room. The main idea of the Student Center of Alexander Dubček University of Trenčín is to create a common space for extracurricular student activities focused on student mobilities, creating of an informal lecture space for interesting motivational speakers, successful graduates, young entrepreneurs and last but not least creating space for student companies and start-up companies. The student centre offers space in the form of coworking to small innovative companies from Trenčín, that can cooperate with the students. The creative space supports active university students in their personal development, as well as in their successful application in professional practice. The student centre is equipped with functional furniture, basic presentation technology, a printer with a copier and a fast wi-fi connection.
The Student Centre includes a technical room and a student radio studio. TrenchTown Student Radio is an online student radio station of Alexander Dubček University of Trenčín, whose team consists of active university students who, through their radio activities, develop their personal and professional growth prospects and ensure the preparation and moderation of programs, the technical side of the broadcast itself and musical dramaturgy. The student radio operates in the university campus as an independent medium that contributes to the information-educational function, especially for students and staff during the winter and summer semesters of the academic year. The concept of student radio is integrated into the TnUAD Student Centre as a separate technical room and*

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

studio, which shares the common areas of the glass meeting room. In addition to popular music, the student radio also offers its listeners regular shows produced by students. The shows focus mainly on news about the university life, the fields of study, economics, politics, healthcare, technology and other current topics from home and from around the world. [Študentské rádio TrenchTown: Úvodná stránka \(tnuni.sk\)](#)

Creative Centre of the TnUAD: [Kreatívne centrum – FABLAB TNUNI \(kreativnecentrum.eu\)](#)

Recreation zones for students

Green recreation areas are a common part of modern universities, which improves the standard of students' facilities. Therefore, a green relaxation zone for students and staff was built and opened at the campus in 2020, which provides a space for students to relax outside the educational process.

Material security for students with special needs

Alexander Dubček University of Trenčín provides education for students with special needs in the form of support services in accordance with the regulation §100 Law No. 131/2002 on Higher Education and Organizational guidelines for applicants and students with special needs at the Alexander Dubček University of Trenčín. The university has a counselling centre in which applicants with special needs obtain information on the specifics of study fields and study opportunities with regard to their needs. The main aim of the Counselling Centre of the Alexander Dubček University of Trenčín is to provide the same study opportunities for all students as much as possible. [Úvod \(tnuni.sk\)](#)

- f) Possibilities and conditions for participation of the study programme students in mobilities and internships (indicating contact details), application instructions, rules for recognition of this education.

The Erasmus + programme helps to organize student exchanges between the participating countries and the partner countries. Studying abroad within the Erasmus+ programme allows students to improve their communication, language and intercultural skills and acquire social skills that are highly valued by employers. The period spent studying in the participating country can be also combined with an internship.

The student of I., II. and III. level of higher education at the Alexander Dubček University of Trenčín can participate in Erasmus + studies.

Faculty coordinator: prof. Ing. Ján Vavro, CSc., All information for students interested in studying abroad or an internship are published on the university website of the Erasmus + centre: [Erasmus+ TnUAD: Úvod \(tnuni.sk\)](#)

9. Required abilities and admission requirements for the study programme applicants

- a) Required abilities and necessary admission requirements.

The conditions of admission to III. level higher education in study programme Materials are discussed annually at the meeting of the Dean's College and approved by the Academic Senate of the Faculty of Industrial Technology, based on Higher Education Act. The basic condition for admission to the doctoral study programme Materials is the acquisition of a II. level higher education degree (graduation in engineering studies). Applicants for the full-time form of the doctoral study programme Materials will be accepted on the basis of the admission interview results and after meeting all prescribed requirements in accordance with the directive: [Fakulta priemyselných technológií v Púchove: Prijímacie konanie \(tnuni.sk\)](#)

- b) Admission procedures.

Admission procedures are transparent and objective, set out in the published directive: [Fakulta priemyselných technológií v Púchove: Prijímacie konanie \(tnuni.sk\)](#)

- c) Results of the admission process over the last period.

Reports from admission procedures are available at the study department of the Faculty of Industrial Technologies in Púchov.

10. Feedback on the quality of provided education

- a) Procedures for monitoring and evaluating students' opinions on the study programme quality.

Procedures and time schedule of periodic evaluation of the individual study programs are defined by ON 2-U-013 Standards for the internal system of quality assurance and evaluation of higher education, creative activities and other related activities at the Alexander Dubček University of Trenčín.

https://tnuni.sk/fileadmin/dokumenty/univerzita/rada_pre_vnutorne_hodnotenie/Pravidla_pre_vnutorny_system_18.7.2022_final.pdf

- b) Results of student feedback and related measures to improve the study programme quality.

The results of students' feedback and related measures to improve the quality of the study program are presented in the regular evaluation reports available at: [Fakulta priemyselných technológií](#)

They are also listed in the document „M_PhD_spätná_väzba_študentov“ available at: [f\) Stanoviska relevantných zainteresovaných strán](#)

- c) Results of graduate feedback and related measures to improve the study programme quality.

Feedback from the graduates is assessed using a questionnaire available at: [Fakulta priemyselných technológií v Púchove Dotazník pre absolventov \(office.com\)](#)

The results of the graduate feedback assessment are listed in the document “M_PhD_spätná_väzba_absolventov” available at: [f\) Stanoviska relevantných zainteresovaných strán](#)

- 11. References to other relevant internal regulations and information concerning the study or the study programme student** (e.g study guide, accommodation regulations, fee directive, guidelines for student loans, etc.).

Tuition fee directive: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Školné a poplatky \(tnuni.sk\)](#)

The outline description of the study programme is used to process Annex 2 of the application for granting the accreditation of the study programme.

Accommodation: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Školský internát Púchov \(tnuni.sk\)](http://Trenčianska.univerzita.Alexandra.Dubčeka.v.Trenčine:Školský.internát.Púchov.tnuni.sk)

Scholarships and loans: [Trenčianska univerzita Alexandra Dubčeka v Trenčíne: Štipendiá a pôžičky \(tnuni.sk\)](http://Trenčianska.univerzita.Alexandra.Dubčeka.v.Trenčine:Štipendiá.a.pôžičky.tnuni.sk)

Canteen: [Fakulta priemyselných technológií v Púchove: Stravovanie \(tnuni.sk\)](http://Fakulta.priemyselnych.technologii.v.Puchove:Stravovanie.tnuni.sk)

Library: [Fakulta priemyselných technológií v Púchove: Knižnica \(tnuni.sk\)](http://Fakulta.priemyselnych.technologii.v.Puchove:Knižnica.tnuni.sk)

Job offers: [Fakulta priemyselných technológií v Púchove: Pracovné ponuky \(tnuni.sk\)](http://Fakulta.priemyselnych.technologii.v.Puchove:Pracovné.ponuky.tnuni.sk)