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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University
Institute of Medicine**

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Prosthodontics (Complex Prosthetics)

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry

higher education programme profile/specialisation title

2024 -2025

1. COURSE GOAL(s)

The goal of the course "Prosthodontics (complex prosthetics)" is to train a dentist who is able to diagnose and plan the prosthetic stage of the complex treatment of patients with diseases of the dentition, taking into account the individual characteristics of the disease and the age of the patient.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Prosthodontics (complex prosthetics)" is aimed at the formation of the following competencies (parts of competencies): GC-1, GPC-5, GPC-6, PC-1, PC-5, PC-6.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	GC-1.1. Students should be able analysing the problem situation as a system identifying its components and links between them.
GPC-5	Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing the patient's complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.
		GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.
		GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.
		GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient
PC-1	Being able to make an	PC-1.1. Making an initial examination and/or

Competence code	Competence descriptor	Competence formation indicators (within this course)
	examination of a patient in order to determine a diagnosis.	reexamination of a patient in order to make a preliminary diagnosis.
		PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases in order to make a preliminary diagnosis.
		PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.
		PC-1.4. Detecting if patients have risk factors for oncopathology (including various background processes, precancerous conditions) based on laboratory, instrumental and additional examinations in order to make a preliminary/final diagnosis.
		PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.
PC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.6. Providing orthopaedic treatment for persons with defects in teeth, dentition within the temporization procedure, rehabilitation of single defects in the dentition, dental prostheses of up to three units (excluding dental implants prosthetics), partial and complete removable laminar denture using modern treatment methods approved for use in medical practice.
PC-6	Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at	PC-2.6. Providing orthopaedic treatment for persons with defects in teeth, dentition within the temporization procedure, rehabilitation of single defects in the dentition, dental prostheses of up to three units (excluding dental implants prosthetics), partial and complete removable laminar denture using modern treatment methods approved for use in medical practice. PC-6.1. Searching for medical information based on evidence-based medicine, interpreting

Competence code	Competence descriptor	Competence formation indicators (within this course)
	protecting public health	data from scientific publications and/or preparing a presentation to make medical information, the results of scientific research public.

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
CC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
GPC-5.	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint

GPC-6.	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-1.	Able to conduct examination of the patient to establish a diagnosis.	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-6.	Able to analyze and publicly present medical information based on evidence-based medicine, to participate in scientific research, to introduce new methods and techniques aimed at protecting public health	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Prosthodontics (complex prosthetics) is 8 credits (288 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)**

Type of academic activities	Total academic hours	Semesters/training modules			
		7	8	9	
Contact academic hours	179	72	72	144	
including:					

Type of academic activities		Total academic hours	Semesters/training modules			
			7	8	9	
Lectures (LC)						
Lab work (LW)		179	48	51	80	
Seminars (workshops/tutorials) (S)						
Self-studies		76	21	18	37	
Evaluation and assessment (exam/passing/failing grade)		33	3	3	27	
Course workload	academic hours_	288	72	72	144	
	credits	8	2	2	4	

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1. Replacement of dentition defects with fixed prosthodontics structures	Topic 1.1. Partial teeth absence. Methods of patient examination. Clinical and biomechanical justification of the use of dental bridges. Indications and	LW
	contraindications for the use of bridges. Criteria for choosing the number of abutment teeth. Types of dental bridges. Fitting and fixation the bridges. Quality criterias of prosthetic treatment with bridges. Instruction for dental bridges usage.	LW
	Topic 1.2. Clinical and lab stages of prosthetic treatment with bridges.	LW
	Topic 1.3. Peculiarities of abutment teeth preparation while manufacturing a bridge.	LW
	Topic 1.4 Fitting and fixation of a bridge. . Quality criterias of prosthetic treatment with bridges. Instruction for dental bridges usage.	LW
Section 2. Removable denture treatment	Topic 2.1. Examination of patient with partial teeth absence for future planing removable prostheses. Indications and contraindications for removable denture.	LW
	Topic 2.2. Types of removable dentures in case of partial absence of teeth. Clinical and laboratory stages of prosthetic treatment with removable dentures. Fixation methods for partial lamellar dentures, quality criteria.	LW
	Topic 2.3. Clasp dentures. Indications for use, basic structural elements. Clinical and laboratory stages of their manufacturing. Quality criteria. Rules for the use and care of lamellar and clasp dentures.	LW
Section 3. Prosthetic treatment of periodontal	Topic 3.1. Etiology, pathogenesis, classification, clinical manifestations of periodontal disease. Modern methods of diagnosis in the clinic of prosthetic dentistry.	LW
	Topic 3.2. Clinical and biomechanical substantiation	LW

diseases	of the orthopedic stage of complex treatment of patients with periodontal disease, especially the design of medical devices and prostheses.	LW
	Topic 3.3. Clinical and laboratory stages of manufacturing splinting structures.	LW
Section 4. Prosthetic treatment of increased abrasion of hard tissues of teeth	Topic 4.1. Etiology, pathogeny, classification, and clinical symptoms of excessive attrition of teeth. Diagnostic aids and prosthetic restoration of excessive attrition of teeth.	LW
		LW
	Topic 4.2. Methods of preparing the oral cavity for prosthetics with excessive tooth attrition.	LW
	Topic 4.3. Methods of prosthetic treatment of patients with various clinical manifestations of tooth attrition.	LW
Section 5. Prosthetic treatment of deformations and anomalies of dentition and bite.	Topic 5.1. Etiology, pathogenesis, classification, clinical manifestations of deformation of the dentition and bite in the partial absence of teeth. Modern methods of diagnosis.	LW
	Topic 5.2. Methods of elimination of deformation and justification of tactics of management of patients with this pathology. Stages of treatment.	LW
Section 6. Prosthetic treatment of patients with dentures supported by implants	Topic 6.1. Indications and contraindications to the use of implant supported dentures. Features of clinical and laboratory stages of prosthetic treatment with removable and fixed implant-supported dentures.	LW
	Topic 6.2. Features of clinical and laboratory stages of prosthetic treatment with removable implant-supported dentures.	LW
	Topic 6.3. Features of clinical and laboratory stages of prosthetic treatment with implant-supported fixed dentures.	LW
Section 7. Prosthetic treatment of patients with somatic diseases. Prosthetic treatment of patients with chronic diseases of the oral cavity.	Topic 7.1. Tactics of prosthetic treatment patients with somatic pathology (CVS, GIT, endocrine diseases, cancer of oral cavity, mental diseases, infection diseases (HIV, tuberculosis, candida), chronic diseases of skin and mucous of oral cavity and lips) who are in need of prosthetic rehabilitation.	LW
	Topic 7.2. Intolerance of materials and structures of dentures. Diagnosis, prevention, features of secondary prosthetics.	LW
Section 8. Phonetic aspects of prosthetic treatment with the use of removable and fixed dental and jaw prostheses	Topic 8.1. Fundamentals of phonetics and articulation in prosthetic dentistry. Influence of design features of removable denture bases, location of posterior teeth, crown height, palatal surface shape, interalveolar distance on sound pronunciation disorders. The main methods for assessing speech function in prosthetic dentistry.	LW

* - to be filled in only for **full**-time training; LC - lectures; LW - lab work; S - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab-work №1	An auditorium for laboratory work, individual consultations, current control, and intermediate certification, equipped with a set of specialized furniture and equipment.	<p>12 sets of specialized furniture - tables for simulators and 2 dental simulators "Saratoga S.p.a" (retractable blocks of a doctor [2 M4 turbine hoses] and an assistant [multifunctional gun, saliva ejector, vacuum cleaner], multifunctional pedal, water and compressed air supply system for simulators, aspiration Venturi system with a centralized electric pump, FRASAKO dental phantoms (Germany) on a minitorso with an articulator, models of the upper and lower jaws of the ChVN 28 type (Zarnitsa, Russia) with a face mask and mechanical adjustment of the phantom position along 2 axes in the form of a long table for 12 vis-a-vis places and 2 places for a four-seat module in the form of a "chamomile." Wooden chair with a back on wheels - 14 pcs.</p> <p>Special sink made of stainless steel with two sinks and a gypsum trap.</p> <p>Gypsum tables for 14 jobs.</p> <p>Mobile waste bin with 250 liter lid.</p> <ul style="list-style-type: none"> -School school desk double -15, - chair for student 14 and teacher 1, - cabinet for storage of dental materials and instruments -2 pcs, - glass case for visual aids, -LCD panel, - a personal computer with Internet access, <p>The chair is dental.</p> <p>White magnetic board for drawing with felt-tip pens</p> <p><i>Specialized educational/laboratory equipment:</i></p> <p>Vibrating table - 4.</p> <p>Trimmer -1.</p>

Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
		<p>Vacuum plaster mixer - 2. Scales for gypsum-7 Buckets for plaster and scoops-7 Apparatus for cleaning and lubricating tips "Assistina"-1. Steam jet device for cleaning dentures - 1 Parallelometers -14 Electric water bath 4 Dental electric spatula -14. Dental drill -14. Apparatus for choosing the color of teeth "Easyshade"-1 Apparatus for determining the damping capacity of the periodontium Periotest-1. Light-curing lamps 14.</p> <p>Toolkit (each semester): Disposable examination kits 14 kits per subgroup per semester; turbine tips - 14 pcs., straight tips -14, Protective screens for a dentist -14 Silicone flasks for mixing gypsum-14, Spatulas for kneading gypsum -14 Plaster knife - 14 Dental spatula - 14 pcs. Impression spoons number 3 for the upper and lower jaws metal perforated by 14. Glass for mixing cement - 14 Spatula for mixing cement-14 Crown removers of various types -7 Crampon tongs -14</p> <p>Consumables Clasp wire 2 cm per student in the 8th semester. Models of the upper and lower jaws ChVN 28A - 14 sets Zarnitsa type teeth for ChVN28A - No. 36, No. 34, No. 11 - 1 tooth per student in 7 and 9 semesters. Alginate weight 200 g per student in each semester Gypsum Grade 2 500 g per student in each semester Periodontal probes 14. Burs for preparation set of 5 Vladmiva burs per student in 7th and 9th semesters.</p>

Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
		<p>Articulation paper 100 microns thick - 2 sheets for each student in each semester.</p> <p>C-silicone for impressions - a set of 900 grams of the main mass and corrective with a catalyst for each subgroup in 7 and 9 semesters.</p> <p>Water dentin -1 g per student in semester 7.</p> <p>Insulating cotton swabs, 2 per student in the 7th semester.</p> <p>Plastic bridge for teeth 36 and 34 for model ChVN28A - 1 per student in the 7th semester</p> <p>A set of materials for adhesive fixation -1.</p> <p>Flowable composite for temporary splinting of teeth 1g per student in the 8th semester.</p> <p>Set for splinting "Armosplin" 1 per group in the 8th semester.</p> <p>A set of wax blanks for Akker clasps 1 per group in the 8th semester.</p> <p>Dense light-curing composite 1.0 g per student in semester 9</p> <p>Visual tutorials:</p> <p>Set of IRIS implant system - 7 per subgroup in the 9th semester</p> <p>Set of Straumann implant system 7 per subgroup in semester 9</p> <p>Plastic models with 2 Straumann implant analogues 7 per subgroup in semester 9</p> <p>Plastic LF models with 4 analogs of IRIS-7 implants per subgroup in the 9th semester</p> <p>Forms with the dental formula of the Infodent -14 program in the 9th semester</p> <p>Forms of odontoparodontograms -14 in the 8th semester</p> <p>Orthopantomograms with periodontal pathology -14 in the 8th semester.</p> <p>Stand with types of tooth preparation for various types of prostheses.</p> <p>A set of materials and devices "Stages of manufacturing a stamped-brazed bridge prosthesis", "Stages of manufacturing a metal-ceramic bridge prosthesis". Phantom model with different types of bridges</p> <p>Non-adjustable articulators (occluders) with models with deformation of the dentition and a bridge-like apparatus for the</p>

Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
		restructuring of the Popov phenomenon -14 per group in the 9th semester
Lab-work №2	An auditorium for practical work of students with computer training programs, equipped with a set of specialized furniture and computers with Internet access.	15 workplaces (office tables with computers) with Internet access and Avantis 3D software Software Infodent "Dental Clinic" Software Exokad "Bugel prostheses" LCD panel
Dental office №1	Dental office of a dental medical institution, provided under an agreement with RUDN University for conducting practical clinical classes for 5th year students, equipped with a dental unit and all necessary equipment, instruments and materials for dental prosthetic treatment in accordance with the Procedure for providing dental care to the adult population of the Russian Federation	Personal computer with Avantis 3D software Software Infodent "Dental Clinic" Apparatus Periotest M Apparatus AFS Semi-adjustable articulator with face bow Alginate and silicone impression materials, sets of metal perforated impression trays, masks, gloves
Dental office №2	Dental office of a dental medical institution, provided under an agreement with RUDN University for conducting practical clinical classes for 5th year students, equipped with a dental unit and all necessary equipment, instruments and materials for dental prosthetic treatment in accordance with the Procedure for providing dental care to the adult population of the Russian Federation	Personal computer with Avantis 3D software Software Infodent "Dental Clinic" Apparatus Periotest M Apparatus AFS Semi-adjustable articulator with face bow Alginate and silicone impression materials, sets of metal perforated impression trays, masks, gloves
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers	Avantis 3D software Software Infodent "Dental Clinic" Software Exocad "Bugel prostheses" Educational videos Basic and additional educational materials

Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	with access to the EIOS.	

1. METHODOLOGICAL AND INFORMATIONAL SUPPORT FOR THE DISCIPLINE

Main literature:

1. Orthopedic dentistry: textbook / S.D. Arutyunov, E.A. Bragin, S.I. Burlutskaya [and others]; edited by E.S. Kalivradjian, I.Yu. Lebedenko, E.A. Bragin, I.P. Ryzhova. - 3rd ed., Rev. and add. - M.: GEOTAR-Media, 2020. -- 800 p. : ill. - ISBN 978-5-9704-5272-1: 2200.00.
2. Technology of dental and maxillary prosthetics [Text]: a guide for practical training / V. N. Trezubov, E. A. Bulychева, S. D. Arutyunov. - Moscow: Practical Medicine, 2020. -- 167 p. : ill., color. silt ; 25 cm. - Bibliography: p. 167 (10 titles). - 500 copies - ISBN 978-5-98811-582-3 (in translation)
3. Guide to practical exercises in orthopedic dentistry for 3rd year students / edited by I. Yu. Lebedenko, V. V. Elichev, B. P. Markov / (Authors: S. D. Arutyunov, etc.) allowance. - M.: Practical Medicine, 2006. (Part I. - 432 s).
4. Denture technology: textbook / S.D. Arutyunov, D.M. Bulgakova, M.G. Grishkina [and others]; ed. M.M. Rasulova, T.I. Ibragimova, I. Yu. Lebedenko. - 2nd ed., Rev. and add. - M.: GEOTAR-Media, 2016. -- 384 p. - ISBN 978-5-9704-3830-5.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475755&idb=0

Additional literature

1. Prosthetic dentistry [Text]: Textbook / V.N. Kopeikin [and others]; Ed. V.N. Kopeikina, M.Z. dental faculties of medical universities). - ISBN 5-225-04598-Mirgazizova. - 2nd ed., Add. - M.: Medicine, 2001. -- 624 p. : ill. - (Educational literature for students 7: 276.00.56.6 - O-70
2. I.Yu. Lebedenko, T.I. Ibragimov, A.N. Ryakhovsky
Functional and instrumental research methods in orthopedic dentistry [Text]: Textbook for universities. - M.: Medical Information Agency, 2003. - 128 p. : ill. - ISBN 5-89481-135-X: 260.00.56.6 - L33.
3. Fixed prosthetics: the technology of manufacturing a steel stamped crown [Electronic resource]: Teaching aid / L.S. Sergeeva. - SPb. : Publishing house "Lan", 2018. - 52 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2863-2.
4. Prosthetic dentistry: national leadership / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2016. -- 824 p.
5. Orthopedic dentistry: national guidelines. Volume 2. / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2022. - 416 p. ISBN: 978-5-9704-6367-3.

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access based on concluded agreements:
- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library Online" <http://www.biblioclub.ru>

- EBS Yurayt <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru
- EBS "Lan" <http://e.lanbook.com/>
- EBS "Trinity Bridge"

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course Prosthodontics (Complex Prosthetics).
2. The laboratory workshop (if any) on the course Prosthodontics (Complex Prosthetics).
3. The guidelines for writing a course paper / project (if any) on the course Prosthodontics (Complex Prosthetics).
4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GC-1, GPC-5, GPC-6, PC-1, PC-5, PC-6.) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Professor of the Department

of prosthetic dentistry

Bykova M. V.

position, department

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Prosthetic Dentistry ,

Professor

Lebedenko. L.Yu

name of department

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HEAD OF HIGHER EDUCATION PROGRAMME:

First Deputy Director of
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Razumova S.N

name and surname

