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Информация о владельце:	
ФИО: Ястребов Олег Александорын State Autor	omous Educational Institution of Higher Education
Должность: Ректор	NDSHID INIVEDSITY OF DUSSIA mented after
Дата подписания: 25.01.2024 16.38.59 ES FRIE	NDSHIP UNIVERSITY OF RUSSIA named after
Уникальный программный ключ:	Patrice Lumumba
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Institute of Medicine

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

COURSE SYLLABUS

Pediatric Dentistry

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:

31.05.03 Dentistry

higher education programme profile/specialisation title

2023-2024

1. COURSE GOAL(s)

The goal of the course **"Pediatric Dentistry"** is to equip students with knowledge skills and knowledge in the field of pediatric dentistry.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "**Pediatric Dentistry**" is aimed at the development of the following competences /competences in part: GC-1.1; GPC-1.1; GPC-1.3; GPC-2.1; GPC-2.2; GPC-2.3; GPC-4.1; GPC-4.3; GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6; GPC-5.8; GPC-5.9; GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.9; GPC-9.1; GPC-9.2; GPC-9.3; PC-1.1; PC-1.2; PC-1.3; PC-1.5; PC-1.6; PC-2.1; PC-2.2; PC-2.3; PC-2.4; PC-2.5; PC-2.8; PC-2.9; PC-5.1.

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy.	GC-1.1. Analyze the problem situation as a system, identifying its components and the links between them.
GPC-1.	Able to implement moral and legal norms, ethical and deontological principles in professional activities	 GPC-1.1. Complies with the basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity. GPC-1.3. He has practical experience in solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice.
GPC-2.	Able to analyze the results of their own activities to prevent	 GPC-2.1. Analyzes the causes of professional errors, adverse outcomes of treatment and conflict situations. GPC-2.2. Scientifically substantiates and implements recommendations aimed at improving the medical and legal training of dentists, at preventing professional errors, adverse outcomes

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

	professional errors	and conflict situations.
		GPC-2.3. Evaluates the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry
GPC-4.	Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	 GPC-4.1. Analyzes the awareness of the population about a healthy lifestyle and medical literacy. GPC-4.3. Prepares an oral presentation or printed text that promotes a healthy lifestyle and increases the literacy of the population in the prevention of dental diseases.
GPC-5.	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	 GPC-5.1. Collects an anamnesis, analyzing the patient's complaints, conducting a physical examination at a dental appointment. GPC-5.2. Formulates a preliminary diagnosis and draws up a plan for laboratory and instrumental examinations of a dental patient. GPC-5.3. Prepares medical documentation of the dental patient in accordance with regulatory requirements. GPC-5.4. Refers the patient for a laboratory examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care. GPC-5.5. Refers the patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, taking into account the standards of dental care. GPC-5.5. Refers the patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical GPC-5.6. Refers the patient for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, taking into account the standards.

		(treatment protocols) on the provision of dental
		care, taking into account standards.
		GPC-5.8. Conducts differential diagnosis with
		other diseases/conditions, including urgent ones.
		GPC-5.9. Establishes a diagnosis, taking into
		account the current international statistical
		classification of diseases and health-related
		problems.
GPC-6.	Able to	GPC-6.1. Develops a plan for the treatment of a
	prescribe,	dental disease, taking into account the diagnosis,
	monitor the	age and clinical picture in accordance with the
	effectiveness	current procedures for the provision of medical
	and safety of	care, clinical recommendations (treatment
	non-drug and	protocols) on the provision of medical care, taking
	U	into account the standards of medical care.
	drug treatment in	
		GPC-6.2. P selects medical devices (including dental materials) for the propagation of a
	solving	dental materials) for the preparation of a
	professional	comprehensive plan for the treatment of dental
	problems	diseases. Monitor the progress of the patient's
		treatment.
		GPC-6.3. Evaluates possible side effects from
		taking medications.
		GPC-6.4. Provides medical care to a dental patient
		in urgent or emergency forms.
		GPC-6.5. Organizes the prevention and treatment
		of complications, side effects, adverse reactions,
		including unforeseen ones, resulting from
		diagnostic or therapeutic procedures, the use of
		drugs and (or) medical devices, non-drug treatment
		at a dental appointment.
		GPC-6.9. Evaluates the effectiveness and safety of
		the use of medicines, medical devices and other
		methods of treatment at a dental appointment
GPC-9.	Able to	GPC-9.1. Owns the algorithm of clinical
	assess	laboratory and functional diagnostics in solving
	morpho-	professional problems.
	functional,	GPC-9.2. Evaluates the results of clinical,
	physiological	laboratory and functional diagnostics in solving
	conditions	professional problems.
	and	GPC-9.3. Determines the morphofunctional,
	pathological	physiological states and pathological processes of
	processes in	the human body.
	the human	no numun oody.
	body to solve	
	professional	
	-	
	problems	

PC-1.	Able to conduct examination of the patient in order to establish a diagnosis.	 PC-1.1. Conducts initial and/or re-examination of the patient in order to establish a preliminary diagnosis. PC-1.2. Receives information from patients (their relatives/legal representatives), conducts a survey of patients on the subject of general health, identifying concomitant diseases in order to establish a preliminary diagnosis. PC-1.3. Detects dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition in patients based on examination of the patient, laboratory, instrumental, as well as additional examinations in order to establish a preliminary / final diagnosis. PC-1.5. Establishes a preliminary / final diagnosis based on the examination of the patient, laboratory
		and instrumental studies.PC-1.6. Establishes the final diagnosis on the basis of additional examinations of patients.
PC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	 PC-2.1. Organizes the provision of medical care in emergency and urgent forms for acute dental diseases, conditions, exacerbation of chronic diseases that pose a threat to the patient's life or without obvious signs of a threat to the patient's life. PC-2.2. Conducts the selection of drugs and medical devices (including dental materials) for the treatment of dental diseases, assessing possible side effects from taking drugs. PC-2.3. Provides consultation to the patient on the methods of treatment of dental diseases, drawing up a comprehensive treatment plan with the rationale for the most appropriate tactics and assessing possible complications caused by the use of this technique. PC-2.4. Selects the type of local anesthesia / anesthesia and evaluates possible complications caused by their use. PC-2.5. Conducts a specialized reception of adults and / or children, monitoring the course of treatment of caries, non-carious diseases of the teeth, pulpitis, periodontitis, periodontitis, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands, diseases of the mucous membrane of the cavity of the mouth, with the exception of

		 precancers, using modern methods of treatment approved for use in medical practice. PC-2.8. Carries out observation and treatment of diseases of the mucous membrane of the oral cavity, lips, with the exception of a specialized appointment for the treatment of precancers of the mucous membrane of the oral cavity and lips and the treatment of children with manifestations of viral, bacterial, allergic and other childhood infections in the oral cavity. PC-2.9. Conducts a phased sanitation of the oral cavity (excluding sanitation of children under approximation)
PC-5.	Able to conduct sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle	anesthesia). PC-5.1. Forms in patients (their relatives/legal representatives) the motivation to lead a healthy lifestyle and give up bad habits.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the <u>core</u>/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	Competence	Previous courses/modules*	Subsequent
code	descriptor		courses/modules*
GC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy.	 Propaedeutics of dental diseases Prevention and Community Dentistry Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Orthodontics and pediatric prosthetics

		anesthesiology in dentistryDental prosthetics (simple prosthetics)	• Clinical dentistry
GPC-1	GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activities	 Propaedeutics of dental diseases Prevention and Community Dentistry Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Pediatric Dentistry Clinical Dentistry medical rehabilitation
GPC-2.	GPC-2. Able to analyze the results of their own activities to prevent professional errors	 Propaedeutics of dental diseases Prevention and Community Dentistry Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Pediatric Dentistry Clinical Dentistry medical rehabilitation
GPC-4.	GPC-4. Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	 Prevention and Community Dentistry Public health and healthcare Hygiene 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Orthodontics and pediatric prosthetics Clinical dentistry medical rehabilitation
GPC-5	GPC-5. Able to conduct a patient examination in order to establish a diagnosis in solving professional	 Propaedeutics of dental diseases Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Orthodontics and pediatric

	problems	• Dental prosthetics (simple	prosthetics
	r	prosthetics)	 Clinical dentistry
GPC-6.	GPC-6. Able to prescribe, monitor the effectiveness and safety of non- drug and drug treatment in solving professional problems	 Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) Pharmacology 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Pediatric Dentistry Clinical Dentistry
GPC-9.	GPC-9. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	 Propaedeutics of dental diseases Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Pediatric Dentistry Clinical Dentistry medical rehabilitation
PC-1	PC-1. Able to conduct examination of the patient in order to establish a diagnosis.	 Propaedeutics of dental diseases Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Pediatric Dentistry Clinical Dentistry medical rehabilitation
PC-1	PC-2. Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	 Propaedeutics of dental diseases Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and anesthesiology in dentistry Dental prosthetics (simple prosthetics) 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Orthodontics and pediatric prosthetics Clinical dentistry medical rehabilitation
PC-5	PC-5. Able to conduct sanitary and hygienic education among the population and medical workers	 Propaedeutics of dental diseases Cariesology and disease of hard tissues of teeth Endodontics Local anesthesia and 	 Pediatric maxillofacial surgery Orthodontics and pediatric prosthetics

in order to form a healthy lifestyle	anesthesiology in dentistryDental prosthetics (simple	Clinical dentistrymedical
	prosthetics)	rehabilitation

* 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 is 4 credits (144 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	Semesters/training modules			
	hours	7	8		
Contact academic hours		82	<i>48</i>	34	
including:					
Lectures (LC)	-	-	-		
Lab work (LW)	Lab work (LW)			34	
Seminars (workshops/tutorials) (S)		-	-	-	
Self-studies		62	24	38	
Evaluation and assessment (exam/passing grade)	-	-	-		
Course workload	144	72	72		
hours					
	4	2	2		

* 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
	Module 1. Dental caries in children.	
	Anatomical and physiological features of	
	teeth in children. Methods of examining a	
	child in the clinic of pediatric therapeutic	
	dentistry. Etiology and pathogenesis of	
	dental caries in children. classification of	
	caries. Clinical features of the course of	
	dental caries in children of different age	LW
	groups. Diagnostic methods.	
	Enamel caries of temporary and permanent	
	teeth in children. Caries of the dentin of	
	temporary and permanent teeth. Diagnostics.	
	Caries cement temporary and permanent	
	teeth. Suspended dental caries. Treatment of	
	caries of temporary and permanent teeth.	
	Complications in the treatment of dental	

Course module title	Course module contents (topics)	Academic activities types
	caries in children. Prevention of caries.	
	Module 2. Non-carious lesions of the teeth. Pathology of hard tissues of the tooth during their follicular development. Systemic enamel hypoplasia. local hypoplasia. Tetracycline teeth. Other types of SGE. Endemic dental fluorosis. Diagnostics. Treatment. enamel hyperplasia. Hereditary disorders of the development of dental tissues. Hereditary amelogenesis imperfecta. Hereditary disorders of the development of dental tissues. Imperfect dentinogenesis and odontogenesis.	LW
	Module 3. Pulpitis in children. Anatomical and physiological features of the structure of the pulp of temporary and permanent teeth in children of different ages. Etiology and pathogenesis of pulpitis. Classification. Clinic. Methods for assessing the condition of the pulp in children. Diagnosis of pulpitis in children. Methods of treatment of pulpitis of milk and permanent teeth in children. Conservative method of treatment of pulpitis of temporary and permanent teeth in children. Vital and devital methods of treatment of pulpitis of temporary and permanent teeth in children (pulpotomy, extirpation). Treatment of pulpitis in children under anesthesia. Mistakes and complications in the diagnosis and treatment of pulpitis in children.	LW
	Module 4. Anatomical and physiologicalfeatures of the periodontal structure oftemporary and permanent teeth in childrenof different ages. Periodontitis in children.Classification and clinical picture ofperiodontitis in children. Diagnosis anddifferential diagnosis of periodontitis.Treatment of periodontitis of temporaryteeth in children. Treatment of periodontitisof permanent teeth with unformed	LW

Course module title	Course module contents (topics)	Academic activities types
	(apexification) and formed roots. Long-term	
	results of treatment of periodontitis of teeth	
	in children.	
	Emergency dental care for children.	
	Emergency dental care for acute and	
	exacerbation of chronic pulpitis in children.	
	Module 5. Traumatic injuries of teeth in	I W
	children.	LW
	Module 7. Periodontal diseases in children.	
	Anatomical and physiological features of the	
	periodontium in children. Periodontal disease	
	in childhood. Classification. Gingivitis.	LW
	Periodontitis in childhood. Idiopathic diseases	
	with progressive lysis of periodontal tissues.	
	Clinic. Diagnostics.	

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

		Specialised educational /
Type of academic activities	Classroom equipment	laboratory equipment, software, and materials for course study
		(if necessary)
Lecture	An auditorium for lecture-type	Training room for conducting
	classes, equipped with a set of	lecture and seminar classes,
	specialized furniture; board (screen)	group and individual
	and technical means of multimedia	consultations, current control
	presentations.	and intermediate certification.
	A variety of equipment is used for	A set of specialized furniture;
	classroom activities: (visual aids,	technical means: multimedia
	dental equipment and surgical	projector, laptop, WiFi
	instruments for extraction of teeth,	available Internet access.
	phantoms, drugs, extracted teeth, x-	Software: Microsoft products
	rays, computer presentation,	(OS, office suite, including MS
	computers, projector, tables, dental	Office / Office 365, Teams)
	equipment and surgical instruments	
	for emergency care), (classrooms	
	245, 249)	
Lab work	An auditorium for laboratory work,	
	individual consultations, current	
	control and intermediate certification,	
	equipped with a set of specialized	
	furniture and equipment.	

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)
Phantom Class	Cabinets of children's dental clinics with appropriate equipment, instruments, medical equipment, preventive measures;	
Self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the internet.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- 1. Pediatric therapeutic dentistry. National leadership / ed. VC. Leontiev, L.P. Kiselnikova. 2nd ed., revised and supplemented. M., GEOTAR-Media, 2017. 952 p.: ill. ISBN 978-5-9704-4019-3.
- Persin L. S., Elizarova V. M., Dyakova S. V. Dentistry of children's age // M .: Medicine. - 2003. - 640 p.: ill. - ISBN 5-225-04354-2.
- Children's dentistry: textbook / ed. O.O. Yanushevich, L.P. Kiselnikova, Shch.Z. Topolnitsky. M.: GEOTAR-Media, 2020. 744 p.: ill. ISBN 978-5-9704-5318-6.

Additional literature:

Printed publications:

- 1. Vinogradova T.F. Atlas of dental diseases in children: Study guide / T.F. Vinogradov. M.: MEDpress-inform, 2007. 167 p.: ill. ISBN 5-98322-244-9.
- Dental caries in childhood. Modern methods of diagnosis and treatment: textbook / A.E. Anurova, T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan. - Moscow: RUDN University, 2017. - 95 p.: ill.
- Modern methods of diagnosis and treatment of pulpitis in children: textbook / A.E. Anurova, O.M. Davidyan, T.F. Kosyreva, V.V. Safroshkin. - Moscow: RUDN University, 2016. - 72 p.: ill.
- 4. Diseases of the mucous membrane of the oral cavity and lips in children / edited by L.N. Kazari-noy . Nizhny Novgorod: Publishing house NGMA.m2004. 264s.
- 5. Handbook of Pediatric Dentistry / ed. A.Cameron, R.Widmer.- M.: "MEDpressinform", 2003.- 287p.
- 6. Dental trauma in children [Electronic resource]: Educational and methodological manual / Comp.: T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan, E.S.

Zaporozhskaya-Abramova. - Electronic text data. - M. : Publishing House of RUDN University, 2014. - 40 p. - ISBN 978-5-209-05964-6.

- Pharmacotherapy in pediatric dentistry [text] / E.V. Zoryan // Clinical Dentistry. -2012. - No. 2. - S. 6 - 10.
- 8. Drugs in pediatric dentistry: textbook /. Minsk: Higher School, 2017. 320 p. Bibliography: p. 305 ISBN 978-985-06-2717-9 ; The same [Electronic resource].
 URL: http://biblioclub.ru/index.php?page=book&id=480060 (04/08/2019).
- 9. General anesthesia and sedation in pediatric dentistry [Electronic resource]: A guide. M. : GEOTAR-Media, 2007. 184 p. ISBN 978-5-9704-0505-5.

Information support of discipline

a) Information technologies used in the educational process:

- Problem lectures
- Role and business games
- Computer presentations during theoretical and practical classes
- b) Software

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- training computer programs prepared using the Microsoft Office application package
- controlling computer programs prepared using the Microsoft Office application package
- c) Information reference systems
 - selection of lecture material on CDs, video films

d) databases, information and reference and search systems

- RUDN Electronic Library System RUDN EBS http://lib.rudn.ru/MegaPro/Web
 - ELS "University Library Online" http://www.biblioclub.ru
- EBS "Lan" http://e.lanbook.com/
- scientific electronic library eLibrary
- PubMed international citation database
- publishing house of academic medical literature Elsevier
- information and educational portal for doctors Univadis
- electronic educational resource "Telecommunication educational and information system" of RUDN University
- cathedral site

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS http://lib.rudn.ru/

- 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 SCOPU S

http://www.elsescience.en/products/scopus/

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

1. The set of lectures on the course "Pediatric Dentistry".

2. The laboratory workshop (if any).on the course "Pediatric Dentistry".

3. The guidelines for writing a course paper / project (if any) on the course "**Pediatric Dentistry**".

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-1.1; GPC-1.1; GPC-1.3; GPC-2.1; GPC-2.2; GPC-2.3; GPC-4.1; GPC-4.3; GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6; GPC-5.8; GPC-5.9; GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.9; GPC-9.1; GPC-9.2; GPC-9.3; PC-1.1; PC-1.2; PC-1.3; PC-1.5; PC-1.6; PC-2.1; PC-2.2; PC-2.3; PC-2.4; PC-2.5; PC-2.8; PC-2.9; PC-5.1) 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:

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S.N. Razumova

signature

name and surname.