

APPROVED BY

Director of Nuclear Science & Engineering School / Oleg Yu. Dolmatov 06 2020

Course Name: Fundamentals of medical ethics

Field of study: Nuclear Science and Technology

Programme name: Nuclear Science and Technology

Specialization: Nuclear medicine

Level of Study: Master Degree Programme

Year of admission: 2020

Semester, year: semester 3, year 2

ECTS: 3

Total Hours: 108

Contact Hours: 16

- Lectures: 8
- Practical experience: 8

Self-study: 92

Assessment: Credit-test Division: Nuclear Fuel Cycle

Director of Programme Instructor

/Vera V. Verkhoturova /Evgeniia S. Sukhikh eeel



Course Name: Fundamentals of medical ethics

Course Overview:

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Course	The content of the course covers 2 sections. Each topic is studied through lectures and practical experiences.Section 1. Fundamentals of medical deontology. Area of competence and
	In the frameworks of practical experiences, students prepare a presentation to be delivered in class. Presentations will be followed by instructor-led discussions. Performance of practical experiences is evaluated by means of students' oral presentations with maximal possible score equal to 100 pts.
Course Outline	Section 2. Psychological etudes of medical deontology. Each section includes several lectures and practical experiences.
	division of responsibility.
	The course consists of 2 sections, which are given below. Section 1. Fundamentals of medical deontology. Area of competence and
	- 4 practical experiences;
	 4 lectures;
	based on rules of medical deontology in clinical practice. The training course is delivered through the following teaching modes:
	 experience in: – development of the modern effective and cost-effective radiotherapy department
	Upon completion of the course, graduates should acquire the practical
	radiotherapy department or nuclear medicine.
	 to communicate with non-physical staff in the radiotherapy departments; to conduct office work in frame of medical deontology in clinical practice in the
	deontology in clinical practice;
Outcomes	- to analyze and develop the international protocols with respect to the medical
Learning	following skills:
	departments Upon completion of the course, graduates are expected to develop the
	– basics of communication with non-physical staff in the radiotherapy
	clinical practice;
	 basic of the international protocols with respect to the medical deontology in
	 basics of information presentation in the field of medical physics for medical deontology in clinical practice,
	Upon completion of the course, a graduate will obtain the knowledge of:
	responsibilities in radiation therapy department.
Objectives	which are used in the field of Medical Physics for medical deontology in clinical practice. Students will be introduced to topics such as clinic data, staff members'
Course Objectives	This course gives students knowledge of those significant guidance documents
	the medical staff, engineering staff and to discuss the topics of radiotherapy and nuclear medicine in frame of medical deontology in clinical practice.
	The main aim of the course is to learn students to effective communication with

	competence of a physician and physicist, the division of responsibilities between
	medical and physico-technical personnel working in a clinic.
	Section 2. Psychological etudes of medical deontology.
	The main psychological studies on the topics: the doctor is also a person, lack of
	time, mentality, hierarchy, material incentive, competition, medical worker,
	medical physicist, etc.
Facilities and	Lecture Hall with multimedia equipment: Tomsk, Lenina Ave,, 2, building 10,
Equipment	room 431.
	In accordance with TPU rating system we use:
	- Current assessment which is performed on a regular basis during the semester
	by scoring the quality of mastering of theoretical material and the results of
	practical activities (performance tests, perform tasks, problem solving). Max
Grading	score for current assessment is 32 points, min – 22 points.
Policy	- Course final assessment (exam/ credit test) is performed at the end of the
	semester. Max score for course final assessment is 60 points, min -33 points.
	The final rating is determined by summing the points of the current assessment
	during the semester and protection of the course project at the end of the semester.
	Maximum overall rating corresponds to 100 points, min pass score is 55.
Course Policy	Attendance is strictly controlled. All classes are obligatory for attendance.
Teaching	Compulsory reading:
Aids and	1. Amestoy, William. Review of Medical Dosimetry / William Amestoy
Resources	Cham : Springer International Publishing, - 2015. — 867 p.— Текст:
11050 UI COS	электронный // SpringerLink. – URL:
	https://link.springer.com/book/10.1007/978-3-319-13626-4 (дата
	обращения: 20.09.2020). – Режим доступа: из корпоративной сети
	ТПУ
	2. Stereotactic Body Radiation Therapy / by editor Yasushi Nagata. —
	Tokyo: Springer, - 2015. – 254 р. — Текст: электронный // SpringerLink.
	– URL: <u>https://link.springer.com/book/10.1007/978-4-431-54883-6</u> (дата
	обращения: 20.09.2020). – Режим доступа: из корпоративной сети
	ТПУ.
	3. Brachytherapy. Techniques and Evidences / by editors Y.Yoshioka, J.
	Itami, M. Oguchi, T. Nakano Singapore: Springer, 2019. – 304 p. –
	Текст: электронный // SpringerLink. – URL:
	https://link.springer.com/book/10.1007/978-981-13-0490-3 (дата
	обращения: 20.09.2020). – Режим доступа: из корпоративной сети
	ТПУ.
	Additional reading:
	1. Podgorsak, Ervin B. Radiation Physics for Medical Physicists / Ervin B.
	Podgorsak. – Cham : Springer International Publishing, - 2016. – 906 p.
	— Текст: электронный // SpringerLink. – URL:
	https://link.springer.com/book/10.1007/978-3-319-25382-4 (дата
	обращения: 20.09.2020). – Режим доступа: из корпоративной сети
	тпу.
	Internet resources:
	1. Электронно-библиотечная система «Лань» - https://e.lanbook.com/.
	2. Электронно-библиотечная система «Юрайт» - <u>https://urait.ru/</u> .
	3. American Association of Physicists in Medicine:
	https://www.aapm.org/
	4. European Association of Nuclear Medicine: http://www.eanm.org/
	I I I I I I I I I I

	5. International Atomic Energy Agency: https://www.iaea.org/
	6. Коллекция рекомендаций Американской ассоциации медицинских
	физиков <u>https://www.aapm.org/pubs/reports/</u>
	7. Benedict SH, Yenice KM, Followill D. Stereotactic body radiation
	therapy: The report of AAPM Task Group 101. Med. Phys. 2010; 37
	(8): 4078–4101:
	https://aapm.onlinelibrary.wiley.com/doi/full/10.1118/1.3438081
	8. Roles and Responsibilities, and Education and Training Requirements
	for Clinically Qualified Medical Physicists. IAEA HUMAN HEALTH
	SERIES No. 25. INTERNATIONAL ATOMIC ENERGY AGENCY
	VIENNA, 2013. – 88p. https://www.iaea.org/publications/10437/roles-
	and-responsibilities-and-education-and-training-requirements-for-
	clinically-qualified-medical-physicists
	9. Christina Skouroua, and et al. Code of ethics for the American
	Association of Physicists in Medicine. (Revised): Report of Task Group
	109. Medical Physics, 46 (4), April 2019
	https://aapm.onlinelibrary.wiley.com/doi/epdf/10.1002/mp.13351.
	10. Naim Ozturka. Ethics and professionalism in medical physics: A survey
	of AAPM members. Med. Phys. 40 (4), April 2013.
	https://www.aapm.org/pubs/reports/EthicsProfessionalism.pdf
_	Evgeniia S. Sukhikh, Associate professor, Nuclear Fuel Cycle Division, School of
Instructor	Nuclear Science and & Engineering, Tomsk Polytechnic University, e-mail:
	<u>e.s.sukhikh@gmail.ru</u> , Tel.: +7 (3822) 909-500 ext. 6025.