[Medicinski fakultet u Rijeci]

Curriculum
2021/2022

[Za kolegij]

Introduction to Robotics

Study program:	**Medical Studies in English (R)** (elective) [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Centar za biomodeliranje i inovacije u medicini]**
Course coordinator:	**izv. prof. dr. sc. Maričić Sven**
Year of study:	**1**
ECTS:	**1.5**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

Elements of the robotic system. The fundamental laws of robotics. Historical development of technology. The application of robots in biomedicine. Robotic system – planning and production, management. Planning and working with the robotic system. Getting to know the concepts of bionics and cybernetics. Structures and their implementation. Getting to know the functional model.

List of assigned reading:

- Lynch M. K., Park C. F.: Modern Robotics: Mechanics, Planning, and Control, ISBN: 978-1107156302
- Simpson, D., C.: Introduction to Robotics, Santers R. (Editor), Logic Design Publishing, ISBN: 978-0968686027
- Niku, S., B.: Introduction to Robotics: Analysis, Control, Applications, John Wiley&Sons, ISBN: 978-0470604465

List of optional reading:

Winfield, A.: Robotics: A Very Short Introduction, Oxford University Press, ISBN: 978-0199695980

Curriculum:

Student obligations:

Regular attendance at classes, writing a seminar paper.

Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

Other notes (related to the course) important for students:

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COURSE HOURS 2021/2022

Introduction to Robotics

List of lectures, seminars and practicals:

EXAM DATES (final exam):
