Nuclear Reactor Physics (A) - physics775

Course	**Nuclear Reactor Physics (A)**
Course No.	physics775

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture	English	2	3	ST

Requirements:

Preparation: Fundamental nuclear physics

Form of Testing and Examination: Written or oral examination

Length of Course: 1 semester

Aims of the Course: Deeper understanding of nuclear power generation (fisson and fusion)

Contents of the Course:

Physics of nuclear fission and fusion, neutron flux in reactors, different reactor types, safety aspects, nuclear waste problem, future aspects

and

Excursion to a nuclear power plant

Recommended Literature:

H. Hübel: Reaktorphysik (Vorlesungsskript, available during the lecture)

M. Borlein: Kerntechnik, Vogel (2009)

W. M. Stacey: Nuclear Reactor Physics, Wiley & Sons (2007)

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