

## COURSE TITLE: FUSION REACTOR PHYSICS

YEAR: 2 <sup>nd</sup>	SEMESTER: 1 <sup>ST</sup>
	YEAR: 2 <sup>nd</sup>

COU	RSE SC	HEDULE							
	SE- SSIO	Lect	GROUP (Tick X)		Indicate if a space	Indicate YES/NO if	STUDENT'S WEEKLY SCHEDULE		
	N		Lectur e Class	Practi cal Class	different from the classroom is required (laboratory, computer classroom, etc)	It is a session with two teachers (*)	DESCRIPTION	CLASS HOURS	HOMEWO RK HOURS Máximum 7 H
1	1	1. Fusion power. The tokamak scheme	х				<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	4
1	2		х				<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	
2	3	1 (cont.)	x				<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
2	4			x			<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
3	5	2. Tokamak reactors	х				<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6

3	6			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
4	7	2 (cont.)	х		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
4	8	- Written test exam		x	- Written test exam	1,5	
5	9	3. Stellarators. Stellarator reactors	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
5	10			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
6	11	4. Equilibrium and stability (tokamaks and stellarators)	х		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	8
6	12			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
7	13	5. Plasma confinement and transport in tokamaks	х		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
7	14			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
8	15	5 (Cont.)	х		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1.5	6
8	16			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1.5	

9	17	6. Plasma heating and current drive in tokamaks	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
9	18			x	- Solution of proposed exercises - Presentation of short proposed works - Participation in discussions and debates	1,5	
10	19	6 (Cont.)	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
10	20			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and Debates</li> </ul>	1,5	
11	21	7. Heating and confinement in stellarator plasmas	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
11	22			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and debates</li> </ul>	1,5	
12	23	8. Plasma-wall interaction in tokamaks	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
12	24					1,5	-
		- Written test exam		x	- Written test exam		
13	25	9. Plasma operation and control in tokamak reactors	x		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1,5	6
13	26			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed works</li> <li>Participation in discussions and</li> </ul>	1,5	

					Debates		
14	27	10. Plasma-wall interaction, plasma operation and control in stellarator reactors	х		<ul> <li>Reading of proposed topics</li> <li>Work on the subject, including bibliographic research</li> </ul>	1.5	6
14	28			x	<ul> <li>Solution of proposed exercises</li> <li>Presentation of short proposed</li> <li>Participation in discussions and Debates</li> </ul>		
SUBTO	TAL					42	+ 84 = 126
15		Support classes, delivery of proposed homework assignments, etc				2	5
16- 18		Preparation for the written exams				2	15
TOTAL	•						150