

COURSE TITLE: FUSION REACTOR PHYSICS

YEAR: 2 nd	SEMESTER: 1 ST
	YEAR: 2 nd

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				 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	4
1	2		х				 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	
2	3	1 (cont.)	x				 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	6
2	4			x			 Solution of proposed exercises Presentation of short proposed works Participation in discussions and debates 	1,5	
3	5	2. Tokamak reactors	х				 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	6

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

9	17	6. Plasma heating and current drive in tokamaks	x		 Reading of proposed topics Work on the subject, including bibliographic research 	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		 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	6
10	20			x	 Solution of proposed exercises Presentation of short proposed works Participation in discussions and Debates 	1,5	
11	21	7. Heating and confinement in stellarator plasmas	x		 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	6
11	22			x	 Solution of proposed exercises Presentation of short proposed works Participation in discussions and debates 	1,5	
12	23	8. Plasma-wall interaction in tokamaks	x		 Reading of proposed topics Work on the subject, including bibliographic research 	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		 Reading of proposed topics Work on the subject, including bibliographic research 	1,5	6
13	26			x	 Solution of proposed exercises Presentation of short proposed works Participation in discussions and 	1,5	

					Debates		
14	27	10. Plasma-wall interaction, plasma operation and control in stellarator reactors	х		 Reading of proposed topics Work on the subject, including bibliographic research 	1.5	6
14	28			x	 Solution of proposed exercises Presentation of short proposed Participation in discussions and Debates 		
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