Ведомость посещения занятий по преобразователям энергии студентами 6400 группы

	домоств посещения запятии по пре	ооро	ССВС	2 2012	01	repri	01	JAOI	 1 0 100	- PJ	
		21 ноября	28 ноября	12 декабря							
1	Барановский Руслан		1	1							
2	Евстратов Владимир	1		1							
3	Задорожнюк Даниил Булатович		1								
4	Иванченко Максим Вадимович		1								
5	Маратов Мирас										
6	Обама Омбеде Николас Серж	1	1	1							
7	Седельников Вячеслав	1		1							
8	Уильям Михаэль	1	1	1							
9	Филатенков Павел Андреевич	1	✓	1							
10	Фомина Елизавета	✓	✓	✓							
11	Халил Зейн	1	1	1							
12	Альмушреки Осама Абду Али	1	1								
13	Саид Амир	1	✓								
14	Уллах Вахаб										
15	Содан Крешимир										
16	Масаве Паскаль Диоскори	1		1							

выполнение лабораторнах работ, 6400 группа

		T1	T1	Т2	Т2	Т3	Т3	T4	T4	T5	Т5	Т6	T6	L1	L2
1	Барановский Руслан	21.12	29.12	21.12	29.12	21.12	29.12	22.12	30.12	21.12	30.12				
2	Евстратов Владимир														
3	Задорожнюк Даниил	19.12	19.12	19.12	29.12	25.12	30.12	23.12	23.12	25.12	29.12				
4	Иванченко Максим Вадимович	12.10	19.12	05.11	23.12	15.11	19.12	15.11	21.12	22.12	23.12				
5	Маратов Мирас	20.12	29.12	06.11	29.12	20.12	30.12	21.12	30.12	20.12	30.12				
6	Обама Омбеде Николас Серж	10.10	17.10	21.11	21.11	05.12	23.12	22.12	23.12	22.12	23.12			31.12	31.12
7	Седельников Вячеслав	19.12	19.12	20.12	29.12	21.12	_	21.12	30.12	24.12	30.12			31.12	31.12
8	Уильям Михаэль	10.10	17.10	21.11	21.11	21.11	26.12	22.12	26.12	22.12	26.12				
9	Филатенков Павел	30.09	23.12	30.09	23.12	30.09	23.12	30.09	23.12	30.09	23.12				
10	Фомина Елизавета	12.12	12.12	20.12	29.12	20.12	19.12	19.12	19.12	20.12	26.12			26.12	
11	Халил Зейн	12.12	12.12			26.12	26.12	25.12	26.12	25.12	26.12			26.12	
12	Альмушреки Осама Абду Али	10.10	10.10	17.10	17.10	21.11	21.11	21.12	21.12	21.12	21.12				
13	Саид Амир					30.12	30.12	30.12	30.12	30.12	31.12				
14	Уллах Вахаб														
15	Содан Крешимир														
16	Масаве Паскаль Диоскори	20.12	29.12	26.12	29.12	20.12	26.12	26.12	26.12	30.12	31.12				

0.1 Task 1

- \bullet Ivanchenko miss archive info, β is wrong
- OBAMA Nicolas Serge angles α , γ are not marked, actualli initial version was screewed
- Масаве Паскаль Диоскори miss to draw α, γ
- Маратов Мирас miss to draw α, γ

0.2 Task 2 Covariant and contravariant

- \bullet Ivanchenko T_a covers whole interval, it's one possible solution, another is make m_1 symmetric
- OBAMA Nicolas Serge very good, queckly fixed picture, archive info mistakely has author as Filatenkov P.A.
- Маратов Мирас miss archive info
- Седельников in archive info autor is Alexandra (female)
- Барановский miss archive info
- Масаве Паскаль Диоскори at figure exchange please m1 and m2

0.3 Task 3 Boost converter

- Ivanchenko catch formula 10.18 "А так же отвечаю на вопрос. Мне кажется что формула для оценки емкости конденсатора (10.18) не верна, поскольку как написано в тексте выше энергия запасенная в катушке переходит в энергию поля конденсатора, однако это происходит не за период как указано в формуле, а лишь за то время , за которое катушка разряжается. " $C_{out} > \frac{i_{out}}{f \cdot \Delta U_{out}}$ this equation is an estimation. As to me I estimate by decay capacitor by R_{load} (with lianerization exponent).
- OBAMA Nicolas Serge good, title pages was doubled, in archive Subject and Keywards were intendently missed, this is no good.

0.4 Task 4 Checking data for boost converter using graphs

- Ivanchenko has archive info, Graphs are right and have his numbers.
- OBAMA Nicolas Serge According to the student's list yours number is 6.(in the report picked up 12)
- Zadorozhnyuk made an extra job: matlab Analytical Solution with consideration of initial conditions

0.5 Task 5 Down converter

- Ivanchenko fixed archive info, report does not have code for the model. amplitude of riples in V_{out} is very small. ΔV_{out} should be roughly 10% from V_{out} as required. This lead to extra costs for capacitor. Inductors and capacitors are expensive.
- OBAMA Nicolas Serge this interval [.0000501 .0000520] instead of

```
Vs 4 0 PWL(0 0 .0000501 0 .0000520 1 .0002 1) r=0
```

could be made shorter

Vs 4 0 PWL(0 0 .0000520 0 .00005201 1 .0002 1) r=0

- Sedelnikov amplitude of riples should be equal roughly 10%
- Zain Khalil archive info does not have author and subject, pictures have watermarks 'activate pirate software', digits in reports have mixed locale: "1.2" and "1,2". Program model is inconsistent with graphs. C1 3 0 0.23F 'u' sign was ommit here. R_{Load} is not present at all.
- Baranouski archive info is absent: author, subject, keywords. amplitude of riples in V_{out} is very small. ΔV_{out} should be roughly 10% from V_{out} as required. This lead to extra costs for capacitor.
- Maratov amplitude of riples in V_{out} is very small. ΔV_{out} should be roughly 10% from V_{out} as required. This lead to extra costs for capacitor.
- Sedelnikov amplitude of both riples in V_{out} and riples in I_L are very small. amplitude of the riples should be roughly 10% from correspondent average values. Program model is absent in the report.
- Zadorozhnyuk archive info in pdf file has ifrormation from 1-st task. Inspector should be different student not me. amplitude of riples in Vout is very small.

- Maratov amplitude of both riples in V_{out} and riples in I_L are very small. amplitude of the riples should be roughly 10% from correspondent average values. Program model is absent in the report.
- Saeed Amir used open software KiCad. This is good!

0.6 Lab №1 Research of characteristics of power semiconductor devices

https://github.com/trot-t/2019-solar/blob/master/lab_en1.pdf

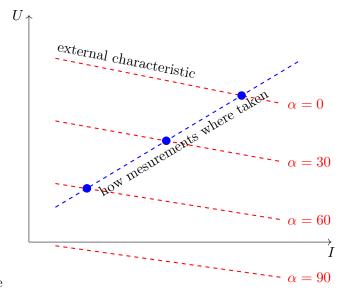
• Sedelnicov – at page5 you are not reach point V_{zigzag} when current starts to increase drammaticaly (the limit of the voltmeter V1 has 300V, or by the key below of the voltmeter V1 you could extend the limit to 600V) The mesurements should be when capacitor C_1 is switch off (bad conditions \equiv classification conditions). But your mesurements were finished at $40 \times 4V$. This dramatical increase of current should be mesured in VAC for both directions (direct and backward). And VAC should be taken at $V_{control} = 0$. Minimum value of $V_{izigzag}$ were current "folds" is used to figure out class of thyristor. Take into account since the voltage has a half-wave sinusoidal shape, conversion factor is π .

0.7 Lab №2 Research of unmanaged rectifiers and filters

https://github.com/trot-t/2019-solar/blob/master/lab_en2.pdf

0.8 Lab №4 Research of 3-phase half-wave thyristor converters

https://github.com/trot-t/2019-solar/blob/master/lab_en4.pdf



• OBAMA Nicolas Serge