Editorial

How to design a timetable for the integrated program

(Personal experience)

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Before, timetables in the faculties of medicine were similar to life, i.e. simple and easy to deal with. For decades, there was only one timetable for each year which was repeated weekly all over the academic semester or even the academic year (Table 1). This timetable was prepared easily by one responsible employee in the Faculty. Now, on using the new program of teaching, the integrated system based learning, it is not an easy job at all, and it requires the cooperation of the module coordinator and the semester or year coordinator together with the participants staff members of the different departments.

Day	8-10	10-12	12-2	2-4
Sunday	Biochemistry Practical	Physiology	Anatomy	Biochemistry
	5,6	Lecture	lecture	Practical 1,2
	Anatomy Practical 1,2			Physiology Practical
				9,10
				Anatomy Practical
				7,8
				5,6
Monday	Biochemistry Practical	Physiology	Biochemistry	Physiology Practical
	9,10	Lecture	Lecture	7,8
	Physiology Practical			Anatomy Practical
	3,4			3,4
				9,10
Tuesday	Histology Practical 1,2	Histology	Anatomy	Behaviour Science
	Anatomy Practical 3,4	Lecture	lecture	Lecture
	5,6			
Wednesday	Histology practical 7,8	Physiology in	Biochemistry	Human Rights
	Anatomy Practical 1,2	exchange with	practical 7,8	Lecture
		Biochemistry	Physiology	
		Lecture	Practical 1,2	
			Histology Practical	
			5,6	
Thursday	Anatomy Practical 7,8	Histology	Biochemistry	Student activity
	9,10	Practical 3,4	practical 3,4	
			Physiology	
			Practical 5,6	
			Histology practical	
1			9.10	

Table 1: Ordinary weekly timetable of the old ordinary system

Designing a good timetable is necessary to control the implementation of the new system properly; otherwise we will go back to the old system; especially with the hard resistance we face while applying the new system. In the following we will try to summarize the necessary steps to design a suitable timetable.

1. The map of the year (Table 2), should be available and show the distribution of teaching weeks according to the included modules. There are main modules, which are implemented separately or together in blocks of weeks, and there are other modules, which run longitudinally all over the semester, e.g. English language and elective courses. Timetables are prepared according to the main modules.

Week	Starting Date	Modules Blocks	Longitudinal	
Number			modules	
	15.9.2018	Orientation Week		
1	23.9.2018		-Professionalism	
2	30.9.2018		[Medical Ethics] (1	
	50.7.2010		CH)	
3	7.10.2018			
4	14.10.2018	Normal Human Body (7 CH)	-English Language	
5	21.10.2018	-	And Medical	
6	29 10 2019		Terminology (1 CH)	
U	28.10.2018			
7	4.11.2018		-Ouran Kareem (1	
8	11.11.2018	Principles of Disease Mechanism	CH)	
9	18.11.2018	and Drug Therapy (4 CH)		
10	25.11.2018	+	-Fikh (1 CH)	
11	2.12.2018		-Elective (1 CH)	
12	9.12.2018	Biomedical Sciences (4 CH)		
13	16.12.2018	+		
14	23.12.2018			
15	30.12.2018	Cellular And Molecular Biology and Principles of Genetics (2 CH)		
16	6.1.2019			
17	13.1.2019	Final-Semester Exams	<u> </u>	
18	20.1.2019			
	26.1.2019	Mid –Year Holiday		
	3.2.2019	(26.1.2019-9.2.2019)		

 Table 2: Map of the First-Semester (2018-2019)

- CH = Credit hour

2. The Timetables of other teaching of different years activities using the same places, e.g. teaching room and laboratories should be available to avoid any overlap.

3. Official national holidays should be free of any teaching activity, to exclude these days from the very beginning.

4. There is different timetable for each week (Table 3).

Table 3: Timetable of Normal Human Body Module (IMP-07-10103) for First Year(2019/2020), 1st semester

	Sunday	Monday	Tuesday	Wednesday	Thursday	
Time	22.9.2019	23.9.2019	24.9.2019	25.9.2019	26.9.2019	
08:00- 08:50	Introduction to module (L) Module coordinator and Staff members sharing in the module	Histology (L) Cell structure Dr	Anatomy (L) Locomotor system (1): bone and cartilage Prof	Biochemistry (L) Carbohydrate: Disaccharides Dr.	Physiology (L) Body fluids Dr	
09:00- 09:50	Anatomy (L) Anatomical position Prof.	Biochemistry (L) Carbohydrate: Monosaccharides Dr.	Physiology (L) Homeostasis Prof.	Histology (L) Cell membrane Prof.	Anatomy (L) Locomotor system (2): muscles and joints Prof.	
10:00- 10:50	SDL	SDL	SDL	SDL	SDL	
11:00- 11:50	Computer	Soft skills	Feqh	English language	Elective	
12:00- 12:30	Break					
12:30 02:30	Anatomy (P) Group A Axial skeleton Histology (P) Group B Microscopic techniques Biochem. (P) Group C Glucose tests interpretation Anatomy (T) Group D Systems of the body (1) Physiology (T) Group E Tissue fluid formation	Anatomy (P) Group B Axial skeleton Histology (P) Group C Microscopic techniques Biochem. (P) Group D Glucose tests interpretation Anatomy (T) Group E Systems of the body (1) Physiology (T) Group A Tissue fluid formation	Anatomy (P) Group C Axial skeleton Histology (P) Group D Microscopic techniques Biochem. (P) Group E Glucose tests interpretation Anatomy (T) Group A Systems of the body (1) Physiology (T) Group B Tissue fluid formation	Anatomy (P) Group D Axial skeleton Histology (P) Group E Microscopic techniques Biochem. (P) Group A Glucose tests interpretation Anatomy (T) Group B Systems of the body (1) Physiology (T) Group C Tissue fluid formation	Anatomy (P) Group E Axial skeleton Histology (P) Group A Microscopic techniques Biochem. (P) Group B Glucose tests interpretation Anatomy (T) Group C Systems of the body (1) Physiology (T) Group D Tissue fluid formation	
02:30 04:30	Histology (P) Group B Ordinary & Special stains	Histology (P) Group C Ordinary & Special stains	Histology (P) Group D Ordinary & Special stains	Histology (P) Group E Ordinary & Special stains	Histology (P) Group A Ordinary & Special stains	

- (L) =Lecture, (P)=Practical, (T)=TUTORIAL, (SDL)= Self-directed learning

5. First lecture should be delivered by the module coordinator so as to introduce the module and explain the methods of teaching and examination according to the study guide. It is better that teaching staff members attend and share in this opening lecture.

6. THE GOLDEN RULE: Two lectures/day are more than enough. This rule is the most important one as it controls the teaching process and prevents trial to go back to the old system. In the integrated system, lectures should be between 40 and 50% of the whole teaching hours. This can be achieved by simply applying the aforementioned rule.

7. Time of each lecture is 50 minutes only followed by 10-minutes break. Some faculties allocate 45 minutes only for each lecture without in-between breaks to shorten the academic day. It is not allowed to extend the time of the lecture.

8. The weekly time of other longitudinal modules should be fixed, e.g. English language every Monday at 11 am all over the semester.

9. Title of each teaching activity, name of the tutor, and his(her) department should be mentioned.

10. In case of having 2 successive lectures in the same discipline or subject, especially if they are delivered by the same tutor, they should be separated by another teaching activity.

11. There should be lunch break every day for half an hour at least; preferably at noon.

12. The title of the timetable should have the name of the module(s), its code, and the order of semester and week.

13. Final exam at the end of the module should be preceded by one day free of any teaching activity.

14. It's better to have one timetable for lectures, and another timetable for other activities. This is easier for the students especially if you design the timetable of activities other than lecture according to the groups of students (Table 4).

15. Another timetable should be designed for the small group activities as a supplement for the main timetable. For each group of students, the timetable should have the time and date of each teaching activity, its palace, its title, and the name of the tutor and his department (Table 5).

16. Timetables could be made by using suitable software.

17. Timetables should be revised with other timetables of different grades in the faculty and they should be accepted by the sharing tutors, and finally it is much recommended to be revised by a staff member other than the one who made them.

18. Timetables should be available before the beginning of the academic year

20. Suitable font and different colors can be used to write the tables.

Table 4: Timetable of Activities Other Than Lectures: Normal Human Body Module (IMP-07-10103) for First Year (2019/2020), 1st semester (Week 1)

Cround	Time	Sunday	Monday	Tuesday	Wednesday	Thursday
Groups	Time	22.9.2019	23.9.2019	24.9.2019	25.9.2019	26.9.2019
A	12:30-2:30	Anatomy (P) Axial skeleton	Physiology (T) Tissue fluid formation	Anatomy (T) Systems of the body (1)	Biochem. (P) Glucose tests interpretation	Histology (P) Microscopic techniques
	2:30-4:30	-	-	-	-	Histology (P) Ordinary & Special stains
В	12:30-2:30	Histology (P) Microscopic techniques	Anatomy (P) Axial skeleton	Physiology (T) Tissue fluid formation	Anatomy (T) Systems of the body (1)	Biochem. (P) Glucose tests interpretation
	2:30-4:30	Histology (P) Ordinary & Special stains	-	-	-	-
С	12:30-2:30	Biochem. (P) Glucose tests interpretation	Histology (P) Microscopic techniques	Anatomy (P) Axial skeleton	Physiology (T) Tissue fluid formation	Anatomy (T) Systems of the body (1)
	2:30-4:30	-	Histology (P) Ordinary & Special stains	-	-	-
D	12:30-2:30	Anatomy (T) Systems of the body (1)	Biochem. (P) Glucose tests interpretation	Histology (P) Microscopic techniques	Anatomy (P) Axial skeleton	Physiology (T) Tissue fluid formation
	2:30-4:30	-	-	Histology (P) Ordinary & Special stains	-	-
E	12:30-2:30	Physiology (T) Tissue fluid formation	Anatomy (T) Systems of the body (1)	Biochem. (P) Glucose tests interpretation	Histology (P) Microscopic techniques	Anatomy (P) Axial skeleton
	2:30-4:30	-	-	-	Histology (P) Ordinary & Special stains	-

- (P) = Practical, (T) = Tutorial

- Courtesy of Dr. Wagih Mansour, Histology Department, Head of Medical Education Unit, Al-Azhar Faculty of Medicine, Cairo.

Table (5): Timetable of small-group discussion of Principles of Disease Mechanism andDrug Therapy, Biomedical Sciences (IMP-07-10105) and Cellular & Molecular Biology andPrinciples of Genetics (IMP-07-10106) Modules for First Year (2018/ 2019), 1st term

Week	Topic	Date	Time	Tutor	Group	Room
S					numbe	number
					r	
9	<u>Microbiol</u>	Saturday	12:30	Dr	C1	Pathology 1
	<u>ogy</u>		-2:30	Dr	C2	Pathology 2
	Standard	17.11.201		Dr	C3	Pathology 3
	precautio	8		Dr	C4	Forensic 1
	ns in			Dr	C5	Forensic 2
	Microbiol					
	ogy lab.					
	Laborator					
0	y nazards Darasitala	Saturday	2.20	Ducf	A 1	Dorro 1
9	<u>Parasitoio</u>	Saturday	2:30-	Prof		Para 1
	Zooposis	17 11 201	4.50	Prof.	AZ	Para 2
	(definition	17.11.201 8		D.	AS	Fara. 5
	(uclimition types) +	0		Dr	A4	Community
	Fasciola			Dr	15	1 Community
	sn and			DI	AS	2
	Babesia					4
9	Biochemis	Saturday	2:30-	Prof	E1	Biochemistry
	try Free		4:30			1
	nucleotide	17.11.201		Prof	E2	Biochemistry
	s of	8				2
	biological			Prof	E3	Biochemistry
	importanc					3
	e			Prof	E4	Anatomy 1
				Prof	E5	Anatomy 2
9	<u>Microbiol</u>	Sunday	2:30-	Dr	D1	Pathology 1
	<u>ogy</u>	10 11 001	4:10	Dr	D2	Pathology 2
	Standard precautio	18.11.201 8		Dr	D3	Pathology 3
	ns in	0		Dr	D4	Forensic 1
	Microbiol			Dr	D5	Foroncia 2
	ogy lab.			D1	03	r or clisic 2
	Laborator					
	y hazards					
9	<u>Parasitolo</u>	Sunday	2:30-	Prof	E1	Para. 1
	<u>gy</u> Zoonosis	18.11.201	4:30	Prof	E2	Para. 2
	(definition	8		Prof	E3	Para. 3
	, types) +			Prof	E4	Community
	Fasciola					1
	sp and			Prof	E5	Community
	Babesia					2