

Tehran University of Medical Sciences School of Nursing and Midwifery

Midwifery

(General specifications, plans and headlines)

Final revision and edition

<u>2024</u>

First Chapter

General specifications of the curriculum Bachelor of Science in Midwifery

1. Name, level and definition:

Bachelor of Science in Midwifery

Definition:

The field of midwifery is one of the fields of medical sciences that its graduates at the bachelor level by providing reproductive health services and performing prenatal, during and postnatal care, caring for neonates, infants and children and providing education and counseling for topics of sexual and reproductive health to women, family and community within the assigned duties, promoting and performing normal and safe as well as physiological childbirth, diagnosing abnormalities in the mother, fetus or newborn, performing emergency measures during and after pregnancy and childbirth, and timely referral of abnormalities strives to ensure the health of the mother, fetus, neonate, infant and child.

2. Values and beliefs:

In our country, considering that learning science is a religious duty, the growth and development of human beings is emphasized, therefore, any education is necessary and desirable for the excellence of human beings and the creation of a better and more productive life.

Since the family is the fundamental unit of society and the main center of human growth and excellence, and women and mothers have a pivotal and decisive role in this center, so pay attention to the physical, mental and social health of mothers and children and providing health services for these vulnerable groups is at the top of government health programs. Therefore, the coverage of such services according to the definition of the field of midwifery falls within its clinical and health dimensions.

In this educational and training course, believing that fertility issues such as pregnancy and childbirth are natural and physiological events of life and that prevention precedes treatment, maintaining natural conditions for fertility events is essential and deviations from natural states must be correct and be carefully identified and guided to the natural path.

It is the right of all families to have the proper care and services of a midwife, regardless of their place of residence, race, ethnicity, age, culture, religion, political beliefs, economic or social status.

The graduate of this course is responsible for achieving high standards of midwifery services and care through education and optimal learning during the school year, continuing education and applying research results, in accordance with national goals and within the scope of duties in accordance with laws and ethics, providing justice, observance of beneficial and non-harm services and authority to clients.

3. Mission:

The mission of this program is to train committed, knowledgeable and skilled midwives, which provides an advanced midwifery and reproductive health services at various levels of prevention, as a member of the health team or independently to clients.

4. Vision:

In 10 years, the graduated of this program based on the program's philosophy and mission, will provide effective midwifery services to patients at the highest professional standard.

5. General goals and objectives of the course:

The Bachelor of Science in Midwifery education program aims at preparing the student to be competent midwives who will play a vital role in improving the quality of life of childbearing families. The teaching and learning process facilitate student's skill development, decision making capacity and application of competencies based on service and profession led education.

On successful completion of this program, the student will have acquired the knowledge, attitude, skills and practices which will enable them to:

- 1. Collect information to critically analyze social determinants and epidemiological patterns for improving maternal and newborn health outcomes.
- 2. Utilize appropriate counseling and communication skills to interact effectively with women, children and their families.
- 3. Integrate the concepts of midwifery process in planning and providing care for women during pregnancy, intrapartum, postpartum and postnatal for newborns care.
- 4. Uphold midwifery care and its relevance in the care and management for childbearing women and their families.
- 5. Apply reflective models to drawn lessons from personal experience about own clinical practice in emergency obstetric and neonatal care for mothers and babies.
- 6. Helping to promote health indicators related to women's reproductive health and the health of infants, children and families.
- 7. Helping reduce health problems related to mother, fetus, infant and child and reduce their mortality and morbidities
- 8. Helping to promote natural, physiological and safe childbirth in the country
- 9. Helping to have a healthy generation and healthy families

6. Professional duties of graduates:

Midwifery graduates are members of the Medical Council and operate under the laws of the Ministry of Health. Therefore, the professional duties of midwifery graduates are in accordance with the job descriptions approved by the Medical Council and the Ministry of Health, and are summarized in the following roles:

7. The roles of graduates:

Midwifery graduates play the following roles in health systems and society:

- Diagnostic, caring and interventional role
- Educational role
- Consulting role
- Preventive role
- Managerial role and research

A. Diagnose, care-intervention

- 1- Establishing effective professional communication with relevant clients, colleagues and officials
- 2- Taking the biography of the clients and registering it in their health care file
- 3- Performing physical examinations of clients and registering it in the file

- 5- Identifying the required care and intervention measures for clients
- 6- Diagnosing abnormal cases and timely referral of clients who need expert help to the relevant specialist and follow-up of cases
- 7- Carrying out prenatal care in normal cases and referring to abnormal cases
- 8- Guiding and performing natural, safe and physiological delivery
- 9- Performing family planning services
- 10- Applying permitted care procedures for clients
- 11- Accurate recording of all actions taken in the file of clients
- 12- Identifying the physical, psychological and emotional needs of the clients and recording it in the clients' files
- 13- Caring for infants and children and recording it in the file

B- Educational role:

- Educating clients and their companions in the field of self-care and referral for care, nutrition and care during pregnancy, identifying risk factors during pregnancy, childbirth preparation, parenting preparation, breastfeeding, family planning, marital and sexual training, teaching reproductive health issues at the level of schools and social centers, etc.
- Participate in continuing education programs

C- Consulting role

- Providing counseling for girls during puberty, before marriage, before pregnancy, pregnancy, childbirth and after childbirth and counseling in the field of sexual health, menopause and old age and family planning

D- Preventive role:

- Planning and implementing prenatal care for clients and following up on related problems to ensure risk elimination
- Participation in screening programs of the country's health system
- Execution of preventive services and observance of prevention criteria in performing duties
- Performing or monitoring maternal and child vaccination
- Monitoring the growth and development of infants and children

E- Managerial role and research:

- Participation in the administration of the unit under the activity and managing midwives
- Participation in research projects

Expected core competencies and skills

A: Expected general capabilities:

- Effective professional communication

- Critical thinking and risk assessment
- Problem solving skills
- Interpretation of findings and results of related laboratory tests
- Evidence-based decision making
- Request advice and give advice
- Rational prescription of authorized drugs
- Follow up clients

Note: The above should be done in sufficient numbers so that the teacher or the student's educational supervisor can make sure that the learning has taken place as required.

B: Expected specific capabilities

Midwifery students should learn and practice the following practical skills during their training:

		Minimum number of times to do									
		observation	participation	Perform independently under the supervision of an							
No.	Skill			instructor							
1	Physical assessment and										
	examinations include:										
2	Examination of uterus and pelvis	5	5	80							
	and vaginal exam of women in										
	gynecology practicum/internship										
3	Pregnancy examinations in	5	5	80							
	prenatal practicum/internship		_								
4	Vaginal examination in labor	5	5	80							
	practicum/internship		_	0.0							
5	Leopold s Maneuvers in prenatal	5	5	80							
	and labor practicum/internship Uterine examination after	5	5	10							
6	cesarean section	3	3	10							
7	Performing discharge	2	2	10							
'	examinations in labor & delivery	2	2	10							
	practicum/internship										
8	Breast examination in gynecology	5	5	10							
	and health practicum/internship			10							
9	Neonatal examination in neonatal	5	5	20							
	practicum/internship										
10	Performing physical examinations	5	5	40							
	of adults and studying their files										
	and recording it in internal and										
	surgical practicum/internship										
11	Examinations related to rape in a	2	2	2							
10	forensic practicum										
12	Other specific skills include:		1	1							
13	Evaluation of fetal health	5	5	20							
1.4	indicators and tests	2	2	5							
14	Intravenous blood sampling of infants and adults each:	2	2	3							
15	Breech delivery and twin delivery	2	2	_							
13	(if available)	2	2	_							
16	Monitor the growth and	5	5	10							
	development of a healthy child in										
	Health practicum/internship										
17	Insert the IUD	5	10	10							
18	Remove the IUD	5	5	10							
19	Insertion of urinary catheter in	5	5	10							
	women and girls										
20	Observe epidural anesthesia	5	-	-							

21	Labor control	2	2	120
22	Performing with cephalic presentation in multiparous and	2	2	60
23	nulliparous women Labor induction with oxytocin	5	5	15
24	Diagnosis of high-risk pregnancies	Each	Each	Each
2-4	(premature labor, placenta	5	5	5
	abruptio, preeclampsia,) and	3		3
	prompt referral and participation			
	in care, management and delivery			
25	Perform and repair episiotomy	5	5	15
26	Repair first and second degree of	2	3	15
	perineal tears if necessary		_	
27	Courage (removing the placenta	5	5	3
28	by hand or tool) Performing subcutaneous,	1	1	5
20	intradermal, intramuscular and	1	1	J
	intravenous injections each:			
29	Pain control in childbirth (physical,	5	5	20
	psychological, non-			
	pharmacological and			
	pharmacological methods medical			
30	methods) each: Anthropometric measurements of	5	5	20
30	neonates in neonatal	3	3	20
	practicum/internship			
31	Sampling of newborn heels	5	5	3
32	Insert the vein catheterization and	5	5	15
	connect the serum			
33	Management and Control of	5	5	60
	bleeding in the third stage of labor and postpartum care			
2/		3	3	5
34	Management of postpartum hemorrhage	3	3	3
35	Two-handed massage of the	1	1	10
	uterus	-		••
36	Practical training of breastfeeding	5	5	10
	skills to mothers in neonatal and			
	health practicum/internship			
37	Washing and dressing the wound	2	2	5
	and bandage in nursing & midwifery fundamental			
	practicum/internship			
38	Working with autoclave device	1	1	5
	(sterilizers devices) Washing and	-		
	dressing the wound in nursing &			
	midwifery fundamental			
	practicum/internship			
39	Packing delivery, episiotomy,	1	1	5
	cervical examination and urinary	0		

	catheterization sets in skill lab			
40	Performing prenatal care in	5	5	100
	prenatal practicum/internship	3		100
41	Micro drip set adjustment and	Each	Each	Each
	administration of drug for infants	3	3	10
	and mothers in neonatal and	3	3	10
	delivery practicum/internship			
42	Follow-up of mothers after	1	1	3
	childbirth and home visits after			
	discharge			
43	Working with phototherapy	3	3	3
	devices, pulse-oximetry and			
	incubator in neonatal			
	practicum/internship			
44	Fetal heart monitoring with	Each	Each	10
	Pinard, Doppler and monitoring	5	5	
	device to gain skills in evaluation			
	of fetal heart and fetal health tests			
45	Taking an ECG in an internal and	2	2	2
	surgical practicum/internship			
46	Perform NST and OCT tests	3	3	5
47	Monitor baby's health	2	3	60
	immediately after normal delivery			
48	Observation cesarean section	5	-	-
49	Assist baby care after cesarean	5	5	5
	section in the operating room			
50	Neonatal Cardiovascular	2	3	-
	Resuscitation (BLS)			Pass the resuscitation
				workshop
F1	No contal condinue con los	2	2	workshop
51	Neonatal cardiovascular	2	3	
	resuscitation (ALS)			Pass the resuscitation
				workshop
52	Adult resuscitation: Maternal	1	1	-
	cardiovascular resuscitation (BLS)			Pass the resuscitation
				workshop
53	Insertion of gastric catheter	1	1	2
<i></i>	(feeding tube) for infants	1	1	2
54	Infusion. injection and monitoring	3	3	3
37	of magnesium sulfate under	3		3
	supervision in cases of			
	preeclampsia			
55	Rhogam (anti D) injection for RH	2	2	3
	negative mothers	_		3
56	Vaccination (mother and child)	Each vaccine	Each vaccine	Each vaccine
	(2	2	5
F 7	Doufourning to the	<u> </u>	۷	<u> </u>
57	Performing tests:			

58	HCT and Hb	1	1	5
59	Blood clotting time and flow	1	1	5
60	Determination of blood type and RH	1	1	5
61	Perform pregnancy tests	1	1	5
62	Performing Fern test in gynecology and labor and delivery practicum/internship	2	2	5
63	Take a slide of cervical secretions and place it under a microscope to diagnose cervical and vaginal infections	2	2	5
64	Sampling for Pap smear	5	5	10
65	Use indicator strips to detect sugar, protein and water bag rupture	1	1	5
66	Preparation of smear from vaginal and breast secretions by necessary methods	3	3	5

Note:

- 1- All the above skills, in addition to the skills listed in the internship courses on the relevant pages, are acquired under the direct supervision of the instructor and must be completed.
- 2- The measures that are taken in prenatal care and management of labor are:

Obtaining a history, performing examinations required by a pregnant woman, such as: general examinations and examinations related to movements and heart rate of fetus, anemia, edema, maternal blood pressure, uterine height measurement, fetal weight estimation, Leopold maneuvers, breast examination, estimation of fetal weight, Evaluating the pelvis and pelvimetry, vaginal examination, writing the prescription and giving the necessary tests and interpreting their results and training mother during pregnancy and administering childbirth preparation classes and ...

8- Program implementation strategies (general educational strategies):

Program development strategies are based on the following axes:

- Paying attention to the needs of the community in the field of reproductive health and accountability and responsibility to society/community
- Applying midwifery knowledge up to date
- Paying attention to professional abilities and job duties
- Paying attention to being multi-potential, while respecting the professional boundaries and restrictions
- Emphasizing on prevention and promotion of health and maintaining and returning to the physiological process
- Integrating of teacher-centered and student-centered educational methods
- Emphasizing on active, critical and creative methods
- Training in real professional environments
- Paying attention to self-learning, research-oriented and futurology and futurism

9 - Conditions and manner of student admission:

It will be through the exam and the diploma grade point average.

10- Similar fields in the country:

Similar fields do not exist.

11- Similar fields abroad:

There is a history of midwifery in Asia, such as Iran and Turkey, and in Europe, such as France, the Netherlands and the United Kingdom, and in North and South America, as well as in Australia and New Zealand.

12- Requirements for launching the course:

- According to the criteria required by the Ministry of Health
- Having enough space and equipped classrooms, skill lab and laboratories for midwifery students.
- Having specialized hospitals as well as maternity hospitals where a sufficient number of natural deliveries are performed. It is better for the normal and physiological delivery ward of the hospital to be separate from its high-risk delivery ward. Also, the presence of birth centers near the hospital can be very effective in educating midwifery students.

13. Ethical expectations from learners:

Learners are expected to:

- Observe the charter of patients' rights exactly.
- Strictly observe the regulations related to the protection and safety of patients, staff and the workplace.
- Follow the rules related to dress code.
- Protect the resources and equipment they work with under any circumstances.
- Respect professors, staff, classmates and other learners and participate in creating a friendly and respectful atmosphere in the workplace.
- Observe professional and social ethics considerations when criticizing programs.
- Observe the ethics of research in conducting research.
- * Items 1, 2 and 3 are given in the appendices of this program.

14- Job positions of graduates in the health system of the country:

Hospitals, maternity hospitals, birth centers, health centers, related clinics, midwifery offices and home visits.

Second chapter

Course details of Midwifery Curriculum

Course details

Course Name: Bachelor of Science in Midwifery

Course length and structure:

The length of the course and its educational system are in accordance with the educational regulations for undergraduate courses approved by the Ministry of Health. The length of the 4-year midwifery course includes 8 regular semesters and one summer semester.

Type of courses and number of credits and hours:

Type of courses	Hours	Number of credits
Compulsory general courses (core) (Including 2 practice/ practical lab credits)	408	20
Compulsory basic science courses (core) (Including 4 practice/practical lab credits)	411	20
Compulsory specialized courses (core) (Including 16/5 practicum credits and 2 practice/practical lab credits)	1922	73
Optional specialized courses (non -core) (Including 0-2 practice/practical lab credits)	68-129	4
Compulsory internship courses (core)	1071	16
Total	3880-3941	133

1 credit of theoretical courses = 17 hours

1 credit of practice/ practical lab courses = 34 hours

1 credit of practicum courses = 51 hours

1 credit of delivery practicum courses = 72 hours

1 credit of Internship courses = 51 hours

1 credit of delivery Internship courses = 102 hours

Note:

All students, after passing all courses and internships and acquiring at least general and specific skills, must take the final clinical test, which includes all professional skills in the field (labor, delivery and postpartum, prenatal, gynecology, maternal and child health and family planning, neonatology and pediatrics) and get a passing score (at least 12 of each). Success in the exam is essential for graduation. If a student fails the exam, in each section, according to the group director, she will do the necessary internship again and then participate in the exam.

Table A: The general courses of continuous bachelor of midwifery curriculum (BSc)

		The number	Types a	and hours ourselurse/modul	of the e	Prerequisite/
Code	Title of credit	of credits	theory	Practice	total	concurrent
1	Two lessons from the theoretical foundations of Islam	4	68	-	68	-
2	One lesson from Islamic ethics lessons	2	34	-	34	-
3	One lesson from the lessons of the Islamic Revolution	2	34	-	34	-
4	One lesson from the lessons of Islamic history and civilization	2	34	-	34	-
5	One lesson from familiarity with Islamic sources	2	34	-	34	-
6	The Persian literature	3	51	-	51	-
7	The general English language	3	51	-	51	-
8	Physical training 1	1	-	34	34	-
9	Physical training 2	1	-	34	34	Physical training 1
10	History of the culture of Iranian and Islamic civilization	2	34	-	34	-
	Total	22	340	68	408	

Table B: The basic sciences courses of continuous bachelor of midwifery curriculum (BSc)

Cada	T:41 £ 1:4	The 1	number o	of credits		Но	urs		Prerequisite/	
Code	Title of credit	Total	Theory	Theory Prac. lab		Prac. lab	Practicum	Total	concurrent	
01	Histology and Cytology	2	1/5	0/5	26	17	-	43	-	
02	Biochemistry	2	1/5	0/5	26	17	-	43	-	
03	Anatomy 1	2	1/5	0/5	26	17	-	43	-	
04	Anatomy 2	3	2/5	0/5	43	17	-	60	03	
05	Physiology 1	3	3	-	51	-	-	51	01, 02, 03	
06	Physiology 2	2	1/5	0/5	26	17	-	43	04, 05	
07	Immunology	2	1/5	0/5	26	17	-	43	02	
08	Theoretical Microbiology	2	2	-	34	-	-	34	-	
09	Parasitology and Mycology	1	1	-	17	-	-	17	08	
10	Practical Microbiology	1	-	1	-	34	-	34	08, 09	
	Total	20	16	4	275	136	-	411		

Table C: The compulsory specialized courses of continuous bachelor of midwifery curriculum (BSc)

		J	The numb	per of c	redits		Н	ours		Prereq
Code	Title of credit	Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
11	Histology and Cytology	1	0/5	0/5		9	17	-	26	01,07,0 8,09,10
12	Principles of public health services (health 1)	2	1/5	-	0/5	26	-	26	52	-
13	General Pharmacology 1	2	2	-	-	34	-	-	34	02,05, 06
14	Pharmacology 2	1	1	-	-	17	-	-	17	05,06, 13
15	Principles and techniques of nursing, midwifery and working in operating and delivery room	2	1	1	-	17	34	-	51	-
16	Principles and techniques of nursing, midwifery and working in operating and delivery room (Practicum)	2	-	-	2	-	-	102	102	15
17	Biostatistics	2	1/5	0/5	-	26	17	-	43	19
18	General, woman and family psychology	2	2	-	-	34	-	-	34	-
19	Principles of Epidemiology and Disease Control (health 2)	2	2	-	-	34	-	-	34	08,09, 12, 27
20	Specialized English Language	2	2	-	-	34	-	-	34	General English
21	Principles of mother and child nutrition	2	2	-	-	34	-	-	34	02, 05, 06
22	History, ethics, laws and regulation in Midwifery	1	1	-	-	17	-	-	17	27,29,30 , 36, 53
23	Law and Forensic medicine in Midwifery	1	1	-	-	17	-	-	17	22
24	Forensic medicine in midwifery practicum	1	-	-	1	-	-	51	51	22, 23
	Total									

Table C: Continuous

		Т	The numb	per of c	redits		Н	ours		Prereq
Code	Title of credit	Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
25	Embryology	2	2	-	-	34	-	-	34	01, 03, 04
26	Genetics	2	2	-	-	34	-	-	34	-
27	Pregnancy and delivery 1-normal pregnancy	2	2	-	-	34	-	-	34	Basic sciences
28	Normal Pregnancy Practicum	1	-	-	1	-	-	51	51	27
29	Pregnancy and delivery 2-normal, safe and physiological delivery, and methods of reducing labor pain	2	2	-	-	34	-	-	34	27, 28
30	Normal Delivery Practicum	2	-	-	2	-	-	144	144	29
31	Pregnancy and Delivery 3- Abnormal Pregnancy and Delivery	2	2	-	-	34	-	-	34	27, 29
32	Normal and Abnormal Delivery Practicum	2	-	-	2	-	-	144	144	31
33	Pregnancy and Delivery 4- medical and surgical diseases in pregnancy and delivery	1	1	-	-	17	-	-	17	27,29, 31, 40-44
34	Neonatology	2	2	-	-	34	-	-	34	25
35	Neonatology Practicum	1	-	-	1	-	-	51	51	34
36	Pediatrics	2	2	-	-	34	-	-	34	34
37	Pediatrics Practicum	1	-	-	1	-	-	51	51	36
	Total									

Table C: Continuous

]	The numb	oer of c	redits		Н	ours		Prereq
Code	Title of credit	Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
38	Semiology and physical examination	1	1	-	-	17	-	-	17	03-09
39	Semiology and physical examination Practicum	1	-	-	1	-	-	51	51	38
40	Physiopathology and medical diseases 1	3	3	-	-	51	-	-	51	01-10, 38
41	Physiopathology and medical diseases 2	2	2	-	-	34	-	-	34	40
42	Physiopathology and medical diseases 3	2	2	-	-	34	-	-	34	40, 41
43	Physiopathology and surgical diseases	2	2	-	-	34	-	-	34	40-42
44	Medical & Surgical Diseases Practicum	1	-	-	1	-	-	51	51	38-43
45	Communication, health education and counseling in maternal, child and reproductive health (health 3)	1	1	-	-	17	-	-	17	12, 18, 21, 27, 34, 36
46	Maternal, child and reproductive health (health 4)	2	2	-	-	34	-	-	34	45
47	Management and Quality Improvement in maternal, child and reproductive health (health 5)	1	1	-	-	17	-	-	17	12, 45
48	Maternal, child, and reproductive health, and family planning Practicum	2	-	-	2	-	-	102	102	45, 46
49	Principles of psychiatry in midwifery	1	1	-	-	17	-	-	17	18
50	Sexual function disorders	1	1	-	-	17	-	-	17	49
	Total									

Table C: Continuous

	Title of credit	7	The numb	oer of c	redits		Н	ours		Prereq
Code		Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
51	Radiology, sonology and electrology in obstetrics and gynaecology	1	1	-	ı	17	-	ı	17	27, 29, 31, 53
52	Principles of management and its application in midwifery	2	2	-	1	34	-	1	34	27, 29
53	Gynecology and Infertility	3	3	-	-	51	-	-	51	27, 29, 31, 38
54	Gynaecology and Infertility Practicum	2	-	-	2	-	-	102	102	53
	Total	73	54/5	2	16/5	928	68	926	1922	

 $\label{eq:continuous bachelor} \textbf{Table D: The optional specialized (non-core) courses of continuous bachelor of midwifery curriculum (BSc)}$

]	The numb	oer of c	redits		Н	ours		Prereq
Code	Title of credit	Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
55	Nutrition in Maternal and Child Diseases	1	1	-	-	17	-	-	17	21, 53, 33
56	Painlessness, anesthesia and CPR in midwifery	1	0/5	0/5	-	9	17	-	26	13, 14, 27, 29, 34
57	Research methodology and design	1	0/5	0/5	-	9	17	-	26	31, 46, 47, 53
58	Medical information system (information technology in midwifery)	1	0/5	0/5	-	9	17	-	26	-
59	Growth and development	1	1	-	-	17	-	-	17	34
60	Preparing for Childbirth and Physiological Delivery	2	1/5	0/5	-	26	17	-	43	27, 29, 31
61	Implementation of a professional problem-solving plan or research article in midwifery	1	-	1	-	-	34	-	34	31, 46, 47, 52
62	Theory and models in midwifery and Health	1	0/5	0/5	-	9	17	-	17	27, 29, 31
63	Sociology and Social Pathology of Women	1	0/5	0/5	-	9	17	-	17	27, 29, 18
64	Evidence-based midwifery	1	0/5	0/5	-	9	17	-	26	17, 19, 58
65	Complementary and alternative Medicine in midwifery	1	1	-	-	17	-	-	17	27-33, 53, 54
66	Complementary and Alternative Medicine Internship	1	-	-	1	-	-	51	51	65
67	Traditional and herbal medicine in midwifery	1	1	-	-	17	-	-	17	18-33, 53, 54
	Total									

Table D: Continuous

	Title of credit	The number of credits				Hours				Prereq
Code		Total	Theory	Prac. lab	Practicum	Theory	Prac. lab	Practicum	Total	uisite/ concurr ent
68	Reproductive biology	1		1	-	-	17	-	17	05, 06, 25, 27
69	Health Economics Management	1	1	-	-	17	-	-	17	52
70	Client and Patient Education	1	1	-	-	17	-	-	17	29, 45, 46
71	Nutrition before, during and after pregnancy	1	1	-	-	17	-	-	17	21, 34, 35
72	Promoting breast feeding	1	0/5	0/5	-	9	17	-	26	27, 29, 46
73	Midwifery and Reproductive Health in Crises and Disasters	1	1	-	-	17	-	-	17	31, 33, 45- 47, 53
74	Midwifery and Reproductive Health in Urban Health	1	1	-	-	17	-	-	17	31, 33, 45- 47, 53
69 ' &74'	Childbearing and family	2	2	-	-	34	-	-	34	27-33, 53, 54
69" & 74"	Entrepreneurship	2	1/5	0/5	-	26	17	-	43	Semest er 4/5 and later
Total		24								

The student is required to choose and pass 4 credits from the table of optional specialized courses (Table D) with the opinion of the educational group. It is strongly recommended that the two credits be "Preparing for Childbirth and Physiological Delivery. Passing 4 credits will be equal to 68 to 129 hours.

Table E: The compulsory internship (core) courses of continuous bachelor of midwifery curriculum (BSc) (2 last semesters)

Code	Title of credit	The number of credits				Hours				Prereq
		Total	Theory	Prac. lab	Internship	Theory	Prac. lab	Internship	Total	uisite/ concurr ent
75	Normal and abnormal pregnancy Internship	3	-	-	3	-	-	153	153	-
76	Normal and abnormal delivery (1) Internship	2/5	ı	-	2/5	-	-	255	255	-
77	Normal and abnormal delivery (2) Internship	2/5	-	-	2/5	-	-	255	255	1
78	Gynaecology and infertility Internship	2	-	-	2	-	-	102	102	1
79	Maternal, child and reproductive health and family planning Internship	2	-	-	2	-	-	102	102	-
80	Neonates who need intensive care Internship	1	-	-	1	-	-	51	51	-
81	Medical and surgical diseases in pregnancy Internship	1	-	-	1	-	-	51	51	-
82	Management and its application in midwifery practicum/ Internship	1	-	-	1	-	-	51	51	1
83	Radiology, sonology and electrology in obstetrics and gynaecology practicum/ Internship	1	-	-	1	-	-	51	51	-
	Total	16	-	-	16	-	-	1071	1071	-

Note: If it is not possible for the student to complete 60 independent deliveries after completing the courses, or if the student has not been able to do 60 independent deliveries, the student is obliged to complete the delivery internship again to perform at least 60 independent deliveries under the supervision of the instructor. This additional internship can be done without taking credits or with taking credits in the last summer of the academic period (maximum 6 credits). This internship will include morning, evening (long day) and night shifts.

The education group is responsible for planning this internship. In the case of not obtaining the minimum number of times for other abilities mentioned in Table B of Chapter One of the Curriculum, the same should be done.

Ethical issues

The graduates should,

- Observe the Patient's Bill of Rights when working with the patients.
- Strictly observe Biosafety and Patient Safety Rules* concerning the patients, personnel and workplace.
- Observe the Rulebook for Dress Code².
- Strictly observe the Regulations of Working with the Laboratory Animals³.
- Carefully preserve resources and equipment.
- Truly respect faculty members, the staff, classmates and other students and work for creating an intimate and respectful atmosphere.
- Observe social and professional ethical considerations in criticism.
- 1, 2 and 3 are contained in the Enclosures.
- * Biosafety and Patient Safety Rules will be set out by the Educational Departments and will be available to the students.

Chapter Three

Curriculum of Undergraduate Midwifery Courses (BSc)

Course Code: 01

Course Name: Cytology and Histology

Prerequisite or concurrent: None Number of credits: 2 credits

Type of credit: 1.5 theoretical credits - 0.5 practical credits

General purpose of the course:

- 1- Familiarity with natural cells and tissues Study and observe microscopic details of cells and tissues of healthy organs and how to sample and stain tissues.
- 2-Scientific and practical application of cell and tissue studies in the field of midwifery services for prevention and diagnosis

Course description: During this course, the student becomes familiar with the basics and methods of general and specific histology and cytology studies, recognizes its types, and is informed about applicability of it in the field of gynecology and obstetrics.

Outline: (43 hours):

A: Theoretical (26 hours)

1. Cytology and general histology:

- Cell, definition and structure
- Cell and nucleus components and the importance of each of them
- The condition of different membranes of adjacent cells and their exchanges.
- Introduction of Histology, epithelial tissue, specific connective tissue (cells, filaments and stem material), glandular tissue and its types, connective tissue types (blood and lymph, cartilage and its growth, bone, bone formation and fracture repair, joints, types of muscular tissues, types of nerve tissue
- -Tissues of various organs of the body (gastrointestinal tract, nervous system, circulatory system, organs of lymphatic system, immune system, respiratory system, urinary system, endocrine glands, male reproductive system)

2. Cytology and specific histology:

- -Cytology of endometrium, cervicx and vagina (cellular changes during the menstrual cycle and maturation index at different times and familiarity with Pap smear)
- Histology of female reproductive system (ovaries, uterine tubes, uterus, cervix, vulva glands)
- Breast histology
- Histology of placenta and embryonic membranes.

B - Practical (17 hours)

- How to prepare cell and tissue samples
- How to prepare the slide and stain it
- observation of smear (observe normal and abnormal Pap smears). How to preserve tissues (autopsy and biopsy) and send it to the laboratory
- Display of some normal cells and tissues, especially cells and tissues of the urinary tract, genitals, blood cells, placenta and skin

The main references of the course:

- 1-Cytopathology of female reproductive system, Mehrzad, Mansour, The latest edition.
- 2- Basic histology, Luiz Carlos Junqueira, José Carneiro, The latest edition
- 3 Necessities of basic histology, the latest edition
- 4- and other valid up-to-date sources

- 1. Active presence in the class 2. Participate in the practical exam 3. Participate in the midterm exam
- 4. Participate in the final exam

Course Code: 02

Course Name: Biochemistry
Prerequisite or concurrent: None
Number of credits: 2 credits

Type of credit: 1.5 theoretical credits - 0.5 practical credit

General purpose of the course:

- 1- Familiarity with biomolecules of carbohydrates, lipids, amino acids, proteins, nucleic acids
- 2- Studying the metabolism of biomolecules in body tissues in normal conditions and pregnancy
- 3- Familiarity with metabolic disorders

Course description: This course introduces the structure metabolism and metabolic disorders of carbohydrate, amino acid protein biomolecules and nucleic acids and nucleotides.

Outline: (43 hours):

A: Theoretical (26 hours)

- The chemical structure of carbohydrates
- The structure of lipids
- The structure of amino acids, proteins, brief description of the properties of water, pH and tampons
- The chemical structure of free nucleosides and nucleotides
- The chemical structure of Vitamins coenzymes and enzymes
- Hormones (chemical structure, classification and mechanism of action)
- Biological oxidation, energy and electron transfer chains
- Cell membranes and transmissions
- Mechanism of digestion and absorption (in short) and carbohydrates metabolization
- -Mechanism of digestion and absorption (short) and lipid metabolization
- -Mechanism of digestion and absorption (short) and protein metabolization involves, amine group, urea and some of amino acids
- Metabolism of nucleic acids and nucleotides
- Water and electrolytes
- -Regulation of metabolism
- Biochemical and metabolism changes in pregnancy
- Electrolytes, proteins, etc in the blood

B - Practical (17 hours)

- Measuring urea, uric acid, creatinine, sugar, fats, iron, sodium, potassium, calcium in the blood
- -HBSAb, HBSAg, HIV
- Liver function tests
- Perform complete urine analysis and common blood biochemistry, including measurements of enzymes, electrolytes, proteins, etc. in blood.

The main references of the course:

- 1- General Biochemistry, The latest edition.
- 2- Harper's Biochemistry. Harper, Harold Anthony, The last edition.

- 1. Active presence in the class
- 2. Participation in the practical exam
- 3. Participation in the midterm exam
- 4. Participation in the final exam

Course Code: 03

Course Name: Anatomy 1

Prerequisite or concurrent: None Number of credits: 2 credits

Type of credit: 1.5 theoretical credits - 0.5 practical credits

General purpose of the course: Understanding the anatomy of the head and neck and upper and lower limbs and its application in clinic and clinical cases

Course description: During this course, the student becomes familiar with the structure of the head and neck, upper and lower limbs.

Outline: (43 hours)

A - Theoretical (26 hours):

- 1- Upper limbs (7 hours): Bones, muscles, arteries, nerves, superficial anatomy, joints, clinical cases
- 2- Lower limbs (7 hours): Bones, muscles, vessels, nerves, superficial anatomy, joints, clinical points
- 3- Head and neck (12 hours): Head and face bones, cervical vertebrae, the area of head and neck, neck and facial muscles, visual auditory and olfactory systems. Tongue and the sense of taste, throat and larynx, glands attached to head and neck, arteries, nerves and lymph.

Practical: (17 hours):

In the anatomy hall on the cadaver

the upper limbs (2 hours), lower limbs (2 hours), head and neck (7 hours), female genitalia system with attention to the perineum and pelvic floor muscles (6 hours).

The main references of the course:

- 1- Lawrence H. Bannister et al. GRAYS ANATOMY New York: Churchill Livingstone. Last edition
- 2- Sobotta Atlas of human Anatomy /. Baltimore: Williams & Wilkines, last edition.
- 3- Pelvic anatomy with clinical points, Abolhassanzadeh, Akram. The Last edition.
- 4- Anatomy of upper and lower limbs and joints, Elahi, Bahram. The Last edition
- 5- Osteology, Tabatabai, Mahmoud. The Last edition.
- 6- Anatomy of the trunk: chest and abdomen. God, Mars. The Last edition.
- 7- Descriptive anatomical accelerator, Forouhi, Ali. The Last edition
- 8- Other reliable and up-to-date sources

Student evaluation methods in different areas

2- Active presence in the class 2- c in the midterm exam 3- Participation in the final exam 4- Doing assignments completely.

Course code: 04

Course Name: Anatomy 2

Prerequisite or concurrent: Anatomy 1

Number of credits: 3 credits

Type of credit: 2.5 theoretical credits - 0.5Practical credit

General purpose of the course: to know the anatomy of the trunk and central nervous system to use it in clinic and clinical cases

Course description: In this course, the student will be familiar with the structure of the trunk (include chest, abdomen, genitourinary systems) and central nerves.

Outline: (60 hours)

A - Theoretical (43 hours):

- 1. Chest (7 hours): The bones, nerves and lymph of the chest, muscles, pleura, lungs, mediastinum, heart, breast, arteries.
- 2. Abdomen (14 hours): Abdominal muscles, peritoneum, gastrointestinal tract and its glands, nerves and lymphatic system.
- 3. Genitourinary system (13 hours): Kidneys, ureter, bladder, urethra, prostate, testis, seminal vesicle, ovary, uterus and its appendages, vagina, external genitalia in both sexes, perineum, arteries, lymph, pelvic structure and its types, and pelvic muscles, nerve and diameters.
- 4. Nerves (9 hours) Embryology of central nervous system, spinal cord, Pons, cerebellum, cerebellum, brain, ventricles, meninges, arteries, cranial nerves and autonomus neural pathways and blodd circulatory system.

B-Practical: (17 hours): in the Anatomy hall on the <u>cadaver</u>

chest (2 hours) - Abdomen (4 hours) - Genitourinary system (9 hours) - Nerves (2 hours)-

The main references of the course

- 1. Lawrence H. Bannister et al. The last edition. GRAYS ANATOMY New York: Churchill Livingstone.
- 2. Sobotta Atlas of human Anatomy /. Baltimore: Williams & Wilkines, the last edition.
- 3. Pelvic anatomy with clinical tips, Abolhassanzadeh, Akram, the latest edition
- 4. Upper and lower limbs and joints, Elahi, Bahram, the latest edition in osteology, Tabatabai, Mahmoud, latest edition
- 6 Anatomy of chest, trunk and abdomen, Elahi, Bahram, the last edition
- 7. Descriptive anatomical accelerator, Forouhi, Ali, the latest edition.
- 8. and other valid and up-to-date sources

- 1. Active presence in class 2. Participation in the practical exam 3. Participation in the midterm exam
- 4. Participation in the final exam

Course code: 05

Course Name: Physiology 1

Prerequisite or concurrent: Biochemistry - Cytology and Histology - Anatomy 1

Number of credits: 3 credits Type of credit: Theoretical

The general purpose of the course: to fully understand the physiology of different body systems and how it is used in clinical cases

Course Description: This course covers the cell physiology, intra and extra cellular environments, cell transport mechanisms, as well as the physiology of the body involves cardiovascular, respiratory, nerves, and blood circulatory systems.

Outline: (51 hours)

1- Physiology of cell and its environment (10 hours)

Extra and intracellular environments, cell membrane and mechanisms of transport through it, ion distribution, potential of resting, sensible tissue membranes and creating and directing action potential and, comparing them, smooth and striated muscle contraction, strength, contraction, Isometric and isotonic contractions, conduction at synapses (types).

2The cardiac physiology (8hours)

Characteristics of the cardiac muscle (electrical, conduction oxygen supply and consumption), Cardiac mechanics; output; sounds and external nerves, the effect of ions and hormones on cardiac function, specific tissue for the transmission of stimuli in the heart, cardiac electrical activity including electrocardiography and its derivation, derivation axes, Einthoven triangle, vector justification, electrocardiogram, real time electric axis vector, rhythm disturbances, ectopic and premature beats, beats.

3- Physiology of blood circulation (9 hours)

Physical laws of blood circulation, factors causing blood flow, arterial circulation and pressure in different vessels, capillary circulation, osmotic and hydrostatic pressures, Starling's law, venous circulation, regulation of cardiac output and its measurement methods, neural regulation of blood pressure, Hormonal regulation of blood circulation, regulation of blood circulation in heart, brain, skin, muscles viscera, pulmonary and lymphatic circulation, the effect of activity on cardiovascular system and blood circulation, circulatory shock.

4-The physiology of respiratory system (9 hours)

Respiratory mechanics, lung elasticity, pulmonary compliance, role of surfactant, respiratory work (elastic and non-elastic work), lung volume and capacity and their curves, gas laws and the mode of transmission, gas composition, alveolar and blood exchanges Ventilation to blood flow ratio, the way of gas transfer in the blood, gas exchanges in the tissue, respiratory center and its neurological control, hormonal control of respiration, respiration at altitudes, muscle activity and respiration in the fetus, non-respiratory functions of the lungs

5- Physiology of the nervous system (10 hours)

Nervous cells and their types, the five senses, the physiology of spinal cord, brain, cerebellum, balance, thalamic, hypothalamic physiology, cerebral cortex, learning, memory and conditioned

reflexes of retinal system, limbic system, autonomic nervous system, brain waves, regulating body temperature, cerebrospinal fluid, pain and its mechanisms.

6 – The blood physiology (5 hours)

Physiology of blood and hematopoietic tissue, blood composition, physiology of red blood cells, hemoglobin and its role in oxygen and carbon dioxide transport, the white blood cells and inflammation, platelet, homeostasis (blood coagulation), plasma and lymph.

The main references of the course

- 1- Medical Physiology, Professor Guyton, Arthur, the latest edition.
- 2- Basic clinical physiology, Green John Herbert, the latest edition.
- 3- Ganong's Review of Medical Physiology. Ganong, William F., the latest edition
- 4- and other reliable and up-to-date sources

- 1. Active presence in class
- 2. Participation in the practical exam
- 3. Participation in the midterm exam4. Participation in the final exam

Course code: 06

Course Name: Physiology (2)

Prerequisite or concurrent: Physiology 1, Anatomy 2

Number of credits: 2

Type of credit: 1.5 theoretical credits - 0.5 practical credits

The general purpose of the course: to fully understand the physiology of different body systems and how it is used in clinical cases

Course description: During this course, the student will be familiar with the physiology of the endocrine glands and reproductive systems, as much as gastrointestinal tract, kidneys. Also they learn about the regulation of body fluids and blood ph. in the body.

Outline: (43 hours)

A - Theoretical (26 hours)

1- The physiology of endocrine glands (10 hours)

Introduction to the hormones and their mechanism of action - General metabolism of the body, pituitary glands and its secretory hormones - Relations between pituitary gland and hypothalamus - Physiology of thyroid and parathyroid glands, Calcium regulation in the body, pancreas; insulin and blood sugar regulation, physiology of the adrenal gland (cortical and central part and related hormones)

2- Reproductive physiology (6 hours)

Ovarian physiology - Menstrual physiology - Puberty physiology - Pregnancy physiology, Placental physiology, Sex separation - Physiology of childbirth, Physiology of breast development, breastfeeding and lactation - Physiology of menopause - Physiology of testes and puberty in boys - Physiology of prostaglandins

3- Gastrointestinal system physiology (4 hours):

General gastrointestinal movements - chewing and swallowing - gastric and small intestine movements, bowel and anorectal movements and defecation reflex - saliva secretion and chemical digestion in the mouth - gastric secretion and its regulation - Gastrointestinal tract - Pancreatic secretion and its digestive function - Bile and its gastrointestinal function - Intestinal secretion and digestion - Absorption - Hepatic metabolic functions - Dietary balance and effects of vitamins

4- Kidney physiology and regulation of body fluids (4 hours):

Anatomy of kidney and renal blood circulation - Nephrons - Glomerular filtration and its measurement - Tubular mechanisms of plasma clearance - Mechanism of urine dilution and concentration- Self-regulation of renal blood circulation - Comparison of cx Blood and urine components - control of extracellular fluid volume and electrolyte concentration - mechanism of Participation.

5 - Blood pH regulation (2 hours):

pH definition, types of acidosis and alkalosis - compensatory mechanisms - blood buffering effects, the role of respiration and kidney in pH regulation.

B - Practical (17 hours):

ESR, HCT, Hb, CBC -

Bleeding and coagulation time - Platelet count and fibrinogen determination

The main references of the course:

- 1, Medical Physiology, Professor Guyton, Arthur, the latest edition.
- 2. Basic clinical physiology. Green John Herbert, the latest edition.
- 3. Ganong's Review of Medical Physiology. Ganong, William F., the latest edition.
- 4. Williams Obstetrics. Cunningham, F., Gary. The latest edition of
- 5. Speroff's Clinical Gynecologic Endocrinology and Infertility, Speroff. The Last Edition
- 6. Harper's Biochemistry, the Last Edition.
- 7. And other up-to-date sources

- 1. Active presence in class 2. Participation in the practical exam 3. Participation in the midterm exam
- 4. Participation in the final exam 5. Doing assignment completely

Course Code: 07

Course Name: Immunology

Prerequisite or concurrent: Biochemistry

Number of credits: 2 credits

Type of credit: 1.5 theoretical credits - 0.5 practical credits

General purpose of the course: Being Familiar with the components and organs of the immune system, as much as their action, immune reactions against infectious agents

Course description: During this course, students will be known about the components and structure of the immune system, its mechanism against various infectious agents and their application in medical diagnoses.

Outline: (43 hours)

A - Theoretical (26 hours)

- Immune tissues and cells including: thymus, spleen, lymph nodes, bone marrow, T and B macrophages, monocytes, eosinophils, neutrophils, basophils, mast cells, Langerhans and dendritic cells, etc.
- Antigen (definition, characteristics and types of antigens)
- Structure, types, production and action of immunoglobulins (antibodies)
- Components of the complement system and how they work
- -MHC, HLA and immunogenetic systems
- Humoral immune system responses (antibody production)
- CMI cellular immune system responses
- Tolerance and autoimmune diseases
- Immunity to infectious diseases
- Fertility and infertility (immunological relationship between mother and fetus, immunological and spontaneous abortions)
- Immunology of organ transplantation and immunosuppressive drugs
- Immune deficiency diseases
- Vaccines and vaccinations
- Immune responses against cancerous tumors
- -Allergic responses and types

B - Practical (17 hours)

Performing tests related to the field of midwifery, such as pregnancy related diagnostic tests (in blood and urine) – Coombs test - Antibody titration - Counting and measuring cells and other components of the immune system - Cellular deposition - Determination of blood groups to ABO and Rh indirect and indirect ways

- Tests to diagnose pregnancy Gravindex and βHCG -
- -Blood groups and RH
- -Direct and indirect Coombs and antibody titration determination
- -Crossmatch

-Urine tests (culture and complete urin test)

The main references of the course:

- 2 Abul Abbas Immunology, the latest edition
- 2- Kuby Immunology, the latest edition

- 1. Active presence in class
- 2. Participation in the practical exam
- 3. Participation in the midterm exam
- 4. Participation in the final exam
- 4. Doing assignments completely

Course Name: Theoretical Microbiology

Prerequisite or concurrent: None Number of credits: 2 credits Type of credit: theoretical

General purpose of the course:

1- Being familiar with the c and life of bacteria and viruses, structure and physiology, metabolism and nutrition of microbes, pathogenic properties of microbes, characteristics of important pathogenic microbes with emphasis on nosocomial infections

Course description: During this course, the students will be known about replication and life of bacteria and viruses a, the pathogenesis of microbes and the characteristics of important pathogenic microbes, emphasizing the relationship between microorganisms, hosts and fetomaternal diseases. Sexually Transmitted Infections (Urinary Tract Infection)

Outline: (34 hours):

1- Bacteriology (24 hours)

- A. General bacteriology: shape, size and structure, reproduction, changes; nutrition and metabolism, sterilization, the effect of physical and chemical factors on bacteria, ecology. Epidemiology and pathogenicity of bacteria, sources and ways of infection transmission, body defense against microbes, prevention of infections,
- B. The systematic bacteriology: Micrococcal, Streptococcus, nyserysea, Vionasia, Bacillas, Cholesteridium, Lactobacilla, Corynebacterium, Listeria, Anthobacteria, Pseudomonas, Brucellas, Yersinia, Hemophilus, Bordetella, alkaline genesis bacteria, achromobacter, Vibrioillia, Spirasia, Spirasia, Spirasia, Spirochetes, Mycoplasmas, Chlamydia, Rickettsia.

2- Virology (10 hours)

- A. General virology: definition, history, structure and propagation properties of viruses. Relationships between virus and host cell, methods of diagnosis, viral diseases, bacteriophages, antiviral medications, classification of viruses.
- B. The Systematic virology: influenza virus, common cold virus, arboviruses, tuberculosis viruses, yellow fever virus, dengue virus (rubella fever), rubella virus, measles virus, mumps virus, polio virus, HIV virus, Smallpox viruses, hepatitis viruses, herpes viruses, cancer-causing viruses.

Main references:

- 1- Jawetz Medical Microbiology. Jawetz, Ernst, the latest edition.
- 2- Medical Microbiology Murray

Student evaluation method in different areas:

1- Active presence in the class 2- Doing assignments completely 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Parasitology and Mycology

Prerequisite or concurrent: Theoretical microbiology

Number of credits: 1 credit Type of credit: theoretical

General purpose of the course:

Being familiar with the evolution, pathogenesis, diagnosis, treatment and prevention of human pathogenic parasites

Course description: During this course, the students can receive to a general information about protozoan parasites of worms, some arthropods that live as parasites in humans body. also they learn about pathogenesis, diagnosis and treatment and ways to prevent parasitic related diseases.

Outline: (17 hours)

1- Parasitology: (6 hours)

- A. Basics of protozoa: Amoebiasis, Giardiasis, Genitourinary trichomoniasis Leishmaniasis, Balantidiasis, Malaria, Toxoplasmosis.
- B. General wormology: nematodes, ascariasis, axiom, trichocephaly, trichinosis, pewter, encliostomyosis, strongyloidosis,

Termatodes, fascioliasis, dicrosoliasis, schistosomiasis,

Cestodes, teniazis, heminolipiasis, hydatid cyst.

C- Arthropodology (3 hours):

The most important arthropods of human parasites

2- Mycology: (4 hours)

General mycology, saprophytic fungi, superficial fungal diseases, mucosal fungal diseases. Cutaneous fungal diseases, subcutaneous fungal diseases, visceral fungal diseases, fungal diseases during pregnancy and after childbirth in the genital area.

3Being familiar with laboratory diagnosis tests and observation of sampling, direct testing, culture of parasites and fungi (4 hours)

Main references:

- 1- Basic medical parasitology. Bran, the latest edition
- 2- Medical Parasitology, Markle, the latest edition
- 3- Medical parasitology. Arfa, Fereydoun, the latest edition
- 4- Medical mycology, laboratory diagnosis and treatment. Shadzi, Shahla, the latest edition
- 5- and other valid and up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- completing assignments properly 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Practical Microbiology

Prerequisite or concurrent: Theoretical microbiology - parasitology and mycology

Number of credits: 1 credit Type of credit: practical

General purpose of the course:

Being familiar with bacteria and pathogenic viruses and the necessary points about their sampling, cultivation and storage, as well as acquiring the necessary skills to perform sterilization using oven and autoclaves.

Course Description: In this course, the students can identify and recognize the bacteria and viruses necessities about sampling and culture to identify them, different methods of sterilization.

Outline: (34 hours) - Work in the laboratory

- 1- Safety tips in the laboratory + sterilization (work with oven and autoclave)
- 2- Being familiar with microscope, method of studying microbes with ordinary and dark field microscope
- 3- How to prepare the spread, methods of smear, staining and observing of bacteria preparation of Throat smear + staining smear)
- 4- Types of Culture medium method and types of sampling
- 5- Method of bacterial culturing in liquid $\mathfrak s$ solid environments and mixed isolation
- 6- Laboratory diagnosis of staphylococci + antibiogram
- 7- Laboratory diagnosis of streptococcus and pneumococcus
- 8- Laboratory diagnosis of gram-negative cocci (Niseria) + terponem palidum
- 9- Laboratory diagnosis of Chrysanthemum bacteria + Lactobacillus + Listeria
- 10- Laboratory diagnosis of Enterobacteriaceae + Helicobacter + Campylobacter
- 11- Laboratory diagnosis of Vibrio-Yersinia
- 12- Laboratory diagnosis of Brucella, Haemophilus
- 13- Laboratory diagnosis of Bacillus-Clostridium
- 14- Laboratory diagnosis of Mycobacterium-Actinomycetes
- 15- Laboratory diagnosis of viruses

Main references:

Kahneman Practical Microbiology, the latest edition

- 1- Active presence in the class 2- Doing assignments properly 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: General and Special Pathology

Prerequisite or concurrent: Cytology and histology - Theoretical microbiology - Parasitology and

mycology - Practical microbiology - Immunology

Number of credits: 1 credit

Type of credit: 0.5 theoretical credit - 0.5 practical credit

General purpose of the course:

- 1- being familiar with cellular degeneration and death, study and observation of microscopic details of abnormal tissues and organs in important organs of the body and how to sample and stain abnormal tissues
- 2- Scientific and practical application of pathology in midwifery

Course description: In this course, students learn about cellular degeneration and death, tissue inflammation and repair, causes of cell pathology, abnormal tissues and organs in important organs of the body, especially in women, as much as how to give the cellular sample and stain tissues.

Outline:

A. Theory (9 hours)

General:

- 1- General pathology of cellular degeneration and death
- 2- Inflammation and repair of tissues
- 3- Definitions and causes of pathology
- 4- Mechanisms of cell damage
- 5- Reversible and irreversible damages
- 6-The morphology of damaged cell
- 7- Atrophy Hypertrophy
- 8- Hyperplasia Metaplasia
- 9- Inflammation, Symptoms of inflammation and major events in inflammation, chemical mediators, acute and chronic inflammation.
- 10- Edema (definition, its causes and types), congestion
- 11- Normal homeostasis, thrombosis, diffuse intravascular coagulation. Embolism (pulmonary embolism, amniotic fluid embolism)
- 12. Susceptibility to cancer and its predisposing factors, cell growth disorders, neoplasms, precancerous disorders, laboratory diagnosis of cancer and tumor markers

Specific:

- 13- Infectious diseases of female genital tract (Bartolen cyst, vulvar dystrophy, vulvar tumors, vaginal carcinoma, pelvic inflammatory diseases, cellulite and cervical tumors, adenomyosis, tubular tumors, non-neoplastic ovarian cysts, Ovarian tumors.
- 14- Breast diseases, fibrocystic changes.

B- Practical (17 hours)

1- Being familiar with normal cytology of vagina, cervix, hormonal index along with specific and nonspecific inflammations (4 slides)

Abnormal cytology of the vagina and cervix, including: metaplasia, dysplasia, incite and invasive carcinoma (4 slides)

- 3- Inflammatory tissue of cervix, cervical dysylasia and INSITU and invasive cancer squamous and glandular cancer, (4 slides) squamous cell carcinoma and adenocarcinoma
- 4- Evaluation of different phases of endometrium, endometrial hyperplasia (4 slides)
- 5- Invasive endometrial cancer, choriocarcinoma, mole (4 slides)
- 6- Uterine leiomyoma, Adenomyosis, Endometrial polyp (4 slides) Leiomyer sarcoma
- 7- Serous papillary tumor, benign and malignant mucinus (4 slides)
- 8- Adult and immature teratoma and dysgerminomas, fibromyoma (4 slides)
- 9- Breast fibrocystic, breast carcinoma, breast fibroadenoma, (total 25 slides)
- 10- Vaginal discharge test (culture microscopic observation, Wet smear test, etc.)

Main references:

Robinson's pathology and other reliable updated sources

- 1- Active presence in the class
- 2- Doing assignments properly
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Principles of Public Health Services (Health 1)

Prerequisite or concurrent: None Number of credits: 2 credits

Type of credits: 1.5 theoretical credits - 0.5 credit of internship

General purpose of the course:

1- Being familiar with the principles of health and health services in Iran and in the world

- 2- F Being familiar with individual and social health and the relationship between health and community development
- 3- Being familiar with community health, community midwifery and the role of midwives in ensuring community health

Course description: In this course, Students learn about the principles of health and health services system in Iran and the world, individual and social health and the relationship between health and community health and development.

Outline:

(Theoretical 26 hours):

Definition of health, the role of health and wellness in Islam, the spectrum of health and disease

- Definition of the disease and classification of pathogens, natural course of diseases, risk factors and their concepts, types of prevention and direct and indirect intervention measures.

Determinants of health

Health and social Determinants of health (SDH)

- -Equality and equity in Health: Definitions, Principles for Action, Conclusion, Social Factors of Determining the Health, The Root of Inequality in Community Health
- History of social factors that determine health, goals and concepts
- Commission of Social determining factors that of Health of the World Health Organization
- Types of concepts in public and individual health, community health, the role of midwives in community health
- World and Iranian health services supply systems (health care system of the Islamic Republic of Iran, its levels and services of each level)
- Current situation and health issues in Iran and the general population in relation to health
- Prioritization of services
- Important and scientific indicators of measuring community health How to determine the health needs of the community
- Primary health care, maternal, child health care and its role in community health (principles, philosophy and components) and the role of midwife in it
- being familiar with the health team providing various health services or the family physician team and the role and position of midwives in them at different levels of village and city

And also in the community, health centers and hospitals as well as staff and queue levels

Referral system

- Screening

Levels of prevention

- Global health goals and strategies, introduction of the World Health Organization and other international health organizations

General education: health education and its philosophy, individual and group methods, direct and indirect, health education and its effect on various health programs and people's participation in health affairs

- Midwife as an educator to mothers, family and community
- Environmental health (healthy water, water improvement and related diseases, healthy food, improvement of production and distribution and consumption and foodborne diseases, healthy air, air pollution, diseases).
- Occupational health, especially occupations in which women work, such as hospitals, with an emphasis on midwifery, farms, factories and environments contaminated with harmful substances and toxins, etc.

Internship (26 hours):

- Visiting different levels of the country's health care network, working with offices and Vital Horoscope Visiting environmental health centers and factories, women's employment centers,
- being familiar with the health team and the duties of different levels including the university staff level, city level, health network, health center and health house

Main references:

- 1- Myles Textbook for midwives, edited by Ruth Bennett, Linda Browm (the Last edition). Edinburgh: Churchill Livingstone. Last edition
- 2- The social meaning of midwifery, the Last edition, McMillan publication Sheila Hunt, Anthea symonds.
- 3- Preventive and social medicine textbook, Park, J, E. Park, K, the Last Edition.
- 4- General public health Sadeghi. Hassan Abadi, Ali The latest edition.
- 5- Public Health, Seyed Mansour Razavi and Hossein Hatami the latest edition
- 6- and other reliable and up-to-date sources

- 1- Active presence in the class
- 2- Doing assignments properly
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: General Pharmacology (1)

Prerequisite or concurrent: Biochemistry - Physiology 1 and 2

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- 1- Full acquaintance with general pharmacology (pharmacodynamics and pharmacokinetics and definition of words)
- 2- c with different forms of drugs and considerations related to their use
- 3- Being familiar with specific category of medication and their clinical uses
- 4- Recognition of important side effects and knowledge of necessary measures for patient care (mother and fetus)

Course description: During this course, students will be introduced to the basics of pharmacology and related terms, different forms of some specific medications and how they are used clinically, along with important side effects and considerations related to their use.

Outline: (34 hours):

General pharmacology: Pharmacodynamics (receptor theory - definitions and terminology), Pharmacokinetics (absorption, release, metabolism and excretion), side effects of medications (allergy-idiosyncrasy), drug interactions, changes in response to medications, tolerance in pharmacology, pharmacogenetic

- Types of medication and how to prescribe them
- medication that can effect on the autonous nerves: Generalized autonomous nerves Cholinergic and anticholinergic medications Meth sympathetic drugs (adrenergic) Anti-adrenergic drugs Glandularg blockers Neuromuscular blockers (muscle relaxants)
- Arterial antihypertensive drugs
- Diuretics
- Effective medications in cardiovascular diseases: effective drugs in the treatment of heart failure anti-angina drugs anti-arrhythmic drugs anticoagulants blood lipid-lowering drugs
- Vitamins
- Anti-anemia drugs
- General nervous system and drugs affecting this system: sedatives hypnotics antipsychotics general anesthetics and local anesthetics

Main references:

- 1- Gaston Pharmacology, Merger, the latest edition
- 2- Iranian generic drugs. Hemati, Karim. The latest edition
- 3- Clinical drug information: Iranian generic drugs. Javidan Nejad, Sadegh. The latest edition.
- 4- Clinical Pharmacology. Sayei, Esmael. theLatest edition
- 5- Medical Pharmacology Gut, Anderson, the latest edition.
- 6-And other reliable and up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- Doing assignmentsproperly 3- Participation in the midterm exam 4-Participation in the final exams

Course Name: Pharmacology (2)

Prerequisite or concurrent: Physiology 1 and 2 and General Pharmacology 1

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

1- Being familiar with different groups of medication prescribed during pregnancy

- 2- Being familiar with the use of different medication during pregnancy and childbirth and in some gynecological diseases
- 3- Being familiar with the side effects and dangers of taking medications on maternal and fetal health

Course Description: In this, students can learn about the related topics to various medications s that are used during pregnancy, childbirth and some gynecological diseases related to the mother and fetus along with the life effects and social risks resulting from any of them.

Outline: (17 hours)

- General prescription of medications in pregnancy and lactation
- Chemotherapy medications: Chemotherapy generals Introduction to antimicrobial medications Treatment of female genital infections (including bacterial, fungal and parasitic infections) Common cancers in women Anticancer medications

treatment of hypertension in pregnancy

- Pharmacological treatment of cardiovascular diseases in pregnancy: Heart failure in pregnancy - Angina pectoris in pregnancy - Arrhythmia treatment in pregnancy - Anticoagulants in pregnancy Endocrine Pharmacology: General Endocrinology - Corticosteroids - Female Sex Hormones and Gonadotropins

Contraceptives

Ovulation stimuli (infertility treatment)

- medications that stimulate the uterus – medication in preterm labor

Treatment of thyroid disease in pregnancy (hypothyroidism and hyperthyroidism)

Treatment of gestational diabetes (insulin and oral hypoglycemic medications)

medication in epilepsy during pregnancy

Narcotic and non-narcotic analgesics in pregnancy

Lecturer: PhD in Pharmacology

Main references:

- 1. Gaston Pharmacology, Marger, the latest edition
- 2- Iranian generic drugs. Hemati, Karim. The latest edition
- 3. Javidan Nejad, Sadegh. Clinical drug information: Iranian generic drugs. Tehran, the latest edition.
- 4- Clinical Pharmacology. Sayei, Esmael.the Latest edition
- 5. Medical Pharmacology, Gut, Anderson, thelatest edition.

- 6. Comprehensive textbook of official Iranian medicines. Shahraz, Saeed. Iran Pharma,the latest edition
- 7. and other up-to-date sources

- 1- Active presence in the class 2- Doing assignments properly 3- Participation in the midterm exam
- 4- Participation in the final exams

Course name: Principles and techniques of nursing and midwifery and working methods in the

operating and delivery room Prerequisite or concurrent: None Number of credits: 2 credits

Type of credit: 1 theoretical credit - 1 practical credit

General purpose of the course:

- 1- Being familiar with principles and general techniques of patient care based on physical, psychological and social needs
- 2- Being familiar with the environment regulations, equipment and working methods in the operating room and delivery

Course description: During this course, students will become familiar with the general principles and techniques of patient care based on their physical, psychological and social needs, as well as Being familiar with the equipment and methods of work in the operating and delivery room.

Outline: (51 hours):

A: (17 theoretical hours)

- 1- Principles and techniques of nursing
- Health and disease
- Basic human needs
- Being familiar with the concepts of pain, stress, sleep and death
- Cognition the different types of hospitals and its organizational chart
- Gaining the Skills in clinical communication
- Patient hospitalization, transferring and discharge
- Patient environment
- Written and oral report
- Infection control and disinfection
- -Vital signs
- Skin, hair and oral hygiene
- body mechanics Principles (cognition the types of movement needs- types of positions the dangers of immobility and the principles of wound care
- -Nutrition: Types of treatment regimens, types of nutrition (gavage, T.P.N)
- Nursing process
- -Intestinal and urinary excretion (enema, catheterization, sampling, etc.)
- Application of cold and heat
- Oxygen therapy, suction
- Medication: Being familiar with weights, scales, calculating the amount of used drugs, acronyms and...
- Injections: ID, SC, I.M I.V.
- Transfusion
- necessary Cares before and after surgery

2- Principles and techniques of midwifery

- Being familiar with the midwifery profession
- Definition of midwife, characteristics, responsibilities and midwife's skills
- Definition of pregnancy and pregnant woman
- -Being familiar with common midwifery idioms
- Work environment of midwife: Being familiar with the building of the delivery ward, clinic and...
- Health and safety in the workplace
- Sterilization and aseptic methods in the delivery and operation room
- -Hospitalization and discharge of pregnant and postpartum women
- Mini Prep and shave
- Enema in labor
- Bathing and washing of the vulva and perineum (before vaginal examination before and after delivery after episiotomy and perineorrhaphy)
- Bladder catheterization in pregnant women
- Principles of movement of pregnant women: transferring, positions during labor and delivery
- Hand cleaning before childbirth (massage method and)
- Wearing scrubs, gloves and taking it off
- Covering women with surgical drapes during gynecological examination and childbirth and
- -Midwifery skills related to the infant: identification, relocation, suction umbilical clamp measurement of height, weight, head circumference and ... temperature, bathing, dressing and discharge.
- Being familiar with the tools and their application in obstetric, gynecological and neonatal examinations such as inserting IUD, delivery, perineorrhaphy, resuscitation and

3- Operating room

- Being familiar with the concepts of gynecological surgery
- Being familiar with the building, organizations and duties of operating room staffs (mobile nurse, scrub, etc.)
- Being familiar with operating room equipments and types of surgical sutures and their application
- Being familiar with gynecological operating room sets: cesarean section curettage cutdown, hysterectomy and...
- Being familiar with the principles of operating room disinfection and sterilization of operating room equipments and solutions
- The correct method of preserving the sample in surgery
- Gynecological surgery positions
- Perp and drape
- Checking and opening surgical sets
- Scrub
- Wearing scrubs and gloves with emphasis on the closed method

Note on the method of implementation: At the discretion of the midwifery group, some cases in the internship period can be presented in the operating room of the maternity and gynecology ward by considering the appropriate time as the theory and internship credit.

B- Practical credit (34 hours)

Practical work related to the abovementioned is determined in the classroom or in the nursing and midwifery training room with the opinion of the relevant instructors

Attention:

- It is necessary to explain that it is better to hold a 4-hour practical session in the practice room after 2 hours of theory class, in which after explaining and practicing everything, students will have enough time to practice and solve problems and gain skills.
- Considering the fact that teaching, learning and evaluating of some practical work requires real conditions and simulation facilities are not sufficient, some actions can be learned only in the internship of this course. Thus, after training, evaluation should be done mostly practical, when not possible, verbally.

Main references:

- 1- Potter, patricia Ann; Perry, Ann Griffin. Fundamentals of nursing: concepets, Process, and practice, th. ed. st. Louis: Mosby (last edition)
- 2- Timby, Barbara K. (last edition). Founded skills and concepts in patient care Philadelphia: lippincott (last edition).
- 3- Taylor, carol etal. Fundamen, Tals of Nusing Philadelphia: lippincott (last edition).
- 4- Cole, Grace. (last edition). Fundamentals Nursing concepts and skills. St. louis: Mosby.
- 5- Reeder Sharon, et al. Maternity Nursing: Family, Newborn and Womens Health, (last edition)
- 6- Philadelphia: Lippincott. Gorrie, Trula Myers. Foundations of Maternal Newborn nursing. Znd ed. Philadephia: W.B. Saunders. (last edition)
- 7- Nursing and health of mothers and infants, Mehri, Farkhondeh, latest edition
- 8- Talors Clinical Nursing Skills: Nursing Clinical Skills, Taylor, Carol et al., Latest edition
- 9- Working method in operating room and recovery room, Ghobraei, respected, latest edition.
- 10- Clinical Nursing Methods, Mousavi, Maliheh Sadat, Rafiei, Forough. The latest edition.
- 11- Principles of Patient Care (Comprehensive Attitude and Nursing), Dogas, latest edition
- 12- and other reliable up-to-date sources

- 1-Active presence in the class
- 2- Participation in the midterm exam
- 3- Participation in the final exams
- 4- Participation in the practical exam

Course Name: Principles and techniques of nursing, midwifery and working in operating and delivery room (Internship)

Prerequisite or concurrent: course of principles and techniques of nursing and midwifery and working methods in the operating room and labor (theoretical-practical)

Number of credits: 2 credit Credit type: Internship

General purpose of the course:

- 1- Familiarity and implementation of general principles and techniques of patient care based on patient physical, psychological and social needs
- 2- Being familiar with the environment, regulations, equipment and working methods in the operating and delivery room.

Course Description: During this internship, students apply their theoretical and practical knowledge to the patient under the supervision of an instructor.

Outline: (102 hours):

- 1- Being familiar with the medications of the ward and how to give the medicine using the file, card and cardex.
- 2- Familiarity and performing I.M and I.V injections, serum, etc. and gaining skills in this field
- 3- Familiarity and performing bandage
- 4- Being familiar with patient admission and discharge and issuance of birth certificate
- 5- Being familiar with the equipments and how to work in the delivery and operating room, hand washing, scrub, etc.
- 6- Performing general patient care
- 7- Prevention and bed sores treatment
- 8- Proper communication with the patient and emotional support of the patient
- 24 days (4 hours and 1.2 a day with 15 minutes of rest) 2 days in the operating room (you can do more days)

Measuring the height, weight,	Suction of mouth, nose, throat in	Oral care
head and chest circumference	different ways and how to work	
of the neonate	with suction device	
Observing the professional	How to place the airway and care	Making closed and open bed
behavior of the midwife in the	for artificial passages and observe	
delivery room	placing the endotracheal tube	
Preparing the patient for the	Performing 5 cases of bondage,	Moving the patient from the bed
operating room	sterile compress	to the wheelchair and the stretcher
		and vice versa
Sterilizing equipments and	Washing infected wounds	Positioning the patient (different
fabrics		types)
(Autoclave and oven)		
hand washing	Removing sutures	Giving active and passive

		exercises
Wearing scrubs and mask	bandage	blood pressure Control and
		recording
Wearing gloves	Oral medication	Breathing control and recording

needles and cloth accessories injection in 5 cases related to surgery Preparing the patient for the operating room injection in 5 cases and recording giving medication or subcutaneous injecting the room giving medication or subcutaneous admission of the patient in the ward intraoperative care Intradermal test in 1 to 2 cases Control I, O and recording it Inserting intravenous catheter and serum and its care and how to calculate and combine drugs in 5 cases ulture) observing recovery room equipments Admission of the patient from the recovery room Observing the operating room environment and how to work in it observing different types of operations (at least 2 cases of cesarean section) Caring for the corpse Patient discharge, patient and family edivery and postpartum room observing how to work with Bennett device Observing how to work with Bennett device in delivery and postpartum room Observing how to work with Bennett device in delivery room was sistance) Observing the environment and equipments of labor and delivery and postpartum room Observing how to work with Bennett device in delivery not work with infant CPR units or devices in delivery room Observing the environment and equipments of labor and delivery and postpartum room Observing how to work with Bennett device in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery proom Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery room Observing how to work with infant CPR units or devices in delivery r	observing all types of pliers,	Giving medication or intramuscular	Pulse control and recording
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theoretical topics determined	Bathing the infant (can be done in infant	Oxygen therapy (catheter, mask,
by the instructor	internship)	cannula)

Main References:

- 1- Potter, patricia Ann; Perry, Ann Griffin. Fundamentals of nursing: concepets, Process, and practice, th . ed. st. Louis: Mosby (last edition)
- 2- Timby, Barbara K. (last edition). Foundamental skills and concepts in patient care Philadelphia: lippincott (last edition).
- 3- Taylor, carol etal. Fundamen, Tals of Nusing Philadelphia: lippincott (last edition).
- 4- Cole, Grace. (last edition). Fundamentals Nursing concepts and skills. St. louis: Mosby.
- 5- Reeder Sharon, and etal. Maternity Nursing: Family, Newborn and Womens Health, (last edition). Philadelphia: Lippincott. Gorrie, Trula Myers. Foundations of Maternal Newborn nursing. Znd ed.

Philadephia: W.B. Saunders. (last edition).

- 6- Nursing and health of mothers and infants, Mehri, Farkhondeh, latest edition
- 7- Talors Clinical Nursing Skills: Taylor, Carol et al., Latest edition.
- 8- Working method in operating room and recovery room, Ghobraei, respectable, latest edition.
- 9- Clinical Nursing Methods, Mousavi, Maliheh Sadat, Rafiei, Forough. Tehran: Last Edition.
- 10- Principles of Patient Care (Comprehensive Attitude and Nursing), Dogas, latest edition
- 11- Other reliable up-to-date sources

- 1- Active presence in the intership
- 2- 2- how to do the assignments during intership period
- 3- 3- Participation in the final practical exam

Course Name: Biostatistics

Prerequisite or Concurrent: Principles of Epidemiology and Disease Control (Health 2)

Number of credits: 2 credits

Type of credit: 1.5 theoretical - 0.5 practical credit

General purpose of the course:

1- Being familiar with common research methods in medical sciences

- 2- Ability to collect and express statistical information
- 3- Being familiar with statistical inference in order to fully understand research articles
- 4- Ability to conduct medical and health research

Course description: During this course, students become familiar with the concepts of research, its types and different stages, and understanding statistical inference in order to fully understand research articles in medical and health matters.

Outline: (43 hours):

A: Basics of the research method and application of statistics in it (8 hours):

- 1- The concept of research and its types
- 2- Different stages of a research (problem statement, goal writing, research question and hypothesis, etc.)
- 3- Types of variables, types of epidemiological studies, types of populations, types of sampling methods.
- 4- Types of data, methods of collecting information and types of validity and reliability
- 5- Classifying information and expressing them by tables and graphs
- B: Critical statistics (18 theoretical hours + 17 practical hours):
- 1- The concept of probability and the expression of its simple rules
- 2- Distribution of binomial and its application in medical sciences
- 3- Distribution of time and Poisson and its application in medical sciences
- 4- Normal distribution and its application in medical sciences and sample probability distribution Probability distribution \bar{x} and probability distribution p
- 5- The central limit theorem, estimating the limits of trust and the mean and ratio of estimating the number of samples and its basis.
- 6- Concept of hypothesis, statistical test, first and second type errors
- 7- The order of performing some important statistical tests that are mostly seen in medical articles. Difference and ratio test of a fixed number, mean difference test and two ratios.
- 8- The concept of correlation between two situations and the method of examining it in quantitative and qualitative pages (test correlation coefficient, zero-correlation coefficient, agreement tables)
- 9- Statistical review of selected medical and midwifery articles.

Main references:

- 1- Statistical methods and health indicators, Dr. Kazem Mohammad, latest edition.
- 2- Statistical methods in research sciences. Dr. Shariatmadari Mohammad Taghi, latest edition

- 3- Research in health systems of the Ministry of Health. Dr. Shariatmadari Mohammad Taghi, latest edition
- 4- Social prevention medical textbook. Park. JI, (vols. 1-4) latest edition.
- 5- Vital statistics and indicators. Dr. Malek Afzali Hussein, latest edition
- 6- Statistics. Dr. Ayatollah Mohammad Kazem, latest edition
- 7- Research methods and its application. Dr. Sadeghi Hassanabadi, Mohammad, latest edition
- 8- Research method in medical sciences. Dr. Azizi Fereydoun, latest edition
- 9- Other reliable up-to-date sources

- 1- Active presence in the class
- 2- 2- how to to the assignments
- 3- 3- Participation in the midterm exam
- 4- 4- Participation in the final exams

Course Name: General, Woman and Family Psychology

Prerequisite or concurrent: None Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- Familiarity and cognition of the basic concepts of psychology and social psychology and gaining skills in applying these principles in relation to the client and family
- Adequate cognition of the social conditions of the living environment affecting behaviors
- Recognizing the relationship between the structure and organization of society and health problems related to the profession
- Being familiar with normal and abnormal social behaviors
- -Being familiar with various behavioral disorders and social deviations and family misbehavior
- -Being familiar with social pathologies, especially in women

Course description:

This course teaches general topics in the field of general and social psychology and the student passes this course while getting familiar with the basic concepts of psychology with the interaction of physical and mental behavior and the factors affecting it, emotional behaviors and its causes, and behavioral abnormalities and deviations.

Outline: (34 hours):

A- General psychology including:

- 1. History, definitions, types and purposes of psychology
- 2. Psychology from the perspective of Islamic scholars (Kennedy-Farabi-Ibn Sina-Ghazali)
- 3. Biological foundations of psychology
- 4. Psychological concepts include: mental development personality intelligence memory learning emotions basic motivations psychological behavior dependence and addiction
- 5. Psychology of girls' puberty
- 6. Stress, emotional behavior and emotions control
- 7. Social Behavior Social interaction
- 8. Psychology of Abnormality
- 9. Conflict, failure and incompatibility

B- Psychology of women and family including:

- 1. Psychological theories about the family
- 2. Psychological and behavioral differences between girls and boys
- 3. The concept of attachment of mother and child and its biological principles
- 4. Principles of mother-child relationship and principles of parenting
- 5. Couple relationships
- 6. Sexual mental health of women
- 7. Family misbehavior (with children, spouse and the elderly)

8. Divorce - remarriage and single-parent family

Main references:

- 1- Atkinson & Hilgard's Introduction to Psychology, R.L. Translators, Mohammad Naghi Barahani and others. Roshd Publications.
- 2- Morris, C.G. & Maisto, A.A. (the latest edition). Introduction to Psychology. Prentice Hall College.
- 3- Kala, J.W. (the latest edition) Introduction to Psychology. Wadsworth Cengage Learning
- 4- Pinsof, W.M. & Lebow, J.L. (the last edition). Family Psychology. The are of the Science. Oxford University Press.

Student evaluation method in different areas: written exam and participation in class activities

Course Name: Principles of Epidemiology and Disease Control (Health 2)

Prerequisite or concurrent: Principles of public health services (health 1) - Theoretical microbiology -

Parasitology and mycology - Pregnancy and Delivery 1 Normal pregnancy

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

1- Familiarity of students with common terms in epidemiology and prevention medicine

- 2- Familiarity of students with the causes and spread of diseases in society
- 3- Obtaining specific information about the epidemiology of some common diseases in the country

Course description: During this course, the student is introduced to the definition of epidemiology, its common terms, various methods of epidemiological studies, causes and factors affecting the creation and spread of a problem or disease, and the epidemiology of various diseases in children and adults.

Outline: (34 hours):

- 1- Definition of epidemiology, ecological approach to diseases
- 2- Common words in epidemiology
- 3- Classification of pathogens (physical, chemical, biological, etc.)
- 4- The role of different factors in causing diseases (host, pathogen, environment, etc.)
- 5- Physical and chemical factors of biological and social environment
- 6- Prevention and its various stages
- 7- Basics and types of epidemiological studies (briefly)
- 8- Epidemics and how to study them (how to collect information, classify and display them according to time, place, person) Use of statistics in epidemiology
- 9- Screening
- 10- Epidemiology and control of preventable disease by vaccine and their immune mechanism vaccine development, maintenance, cold chain and how to use

Overview of integrated child care:

- 11- Integrated care of a healthy child
- 12- Integrated care of children's diseases

Epidemiology and control of pediatric diseases:

13- Definition, importance, epidemiology, pathology of diarrheal diseases (diarrhea due to Escherichia coli, and cholera and diarrhea due to vibrio, parasitic diarrhea and infections caused by Salmonella, Shigella ... - Definition and types of hydration dose and diagnose of its degrees by Observation, touch, weigh)

Treatment of diarrhea with regard to prevention and treatment of dehydration (intravenous and Oral serums, ORS and reasons for the effect, how to use it, diets and the role of antibiotics and anti-diarrheal drugs)

prevention, control and education of health, food hygiene, improving the environment and fighting flies, etc.

- 14. Definition, importance, epidemiology, pathology of respiratory diseases and respiratory infections types, treatment, nutrition, prevention and control and health education
- 15- Definition, importance, epidemiology, pathology of ear, nose and throat infections types, treatment, nutrition, prevention and control and health education
- 16- Definition, importance, epidemiology, pathology of growth and developmental disorders types, treatment, nutrition, prevention and control and health education
- 17. Definition, importance, epidemiology, pathology of anemia types, treatment, nutrition, prevention and control and health education

Epidemiology of major adult diseases:

- 18- General information about some important diseases such as (tuberculosis, Malta fever, malaria, AIDS, hepatitis, sexually transmitted diseases and high-risk behaviors)
- 19- Epidemiology and control of non-communicable diseases and related risk factors (cancers, rheumatism and heart diseases, diabetes, hypertension, osteoporosis, musculoskeletal disorders, accidents, etc.) Menopause
- 20- General information about some specific diseases in Iran (rabies, leprosy, etc.)

Main references:

- 1- Authentic and up-to-date sources of epidemiology
- 2- Principles of epidemiology. Mazner, Judith Sen. The latest edition
- 3- Integrated care of a healthy child (especial for non-physician) of the Ministry of Health
- 4- Medical, Prevention and Social Textbook (Vol. 1-4), Park, G.I. The latest edition
- 5- Gordis Epidemiology, latest edition
- 6- Integrated care of pediatric diseases (especial for non-physicians), Ministry of Health, Deputy of Health, Family Health Office, Children Department

- 1- Active presence in the class
- 2- 2- how to do the assignments
- 3- 3- Participation in the midterm exam
- 4- 4- Participation in the final exams

Course Name: Specialized English Language

Prerequisite or concurrent: General English language

Number of credits: 2 credits

Credit type: theoretical

General purpose of the course:

1- Familiarizing the student with texts and scientific sources and necessary words and terms and prefixes and suffixes in relation to medical and midwifery words

2- Ability to understand concepts and use scientific books and journals related to the profession in order to improve the level of professional knowledge

Course description: By passing this course, students will become familiar with scientific texts, words and specialized terms of their profession in order to benefit from scientific books and magazines.

Outline: (34 hours):

- Introduction to Common Medical Abbreviations Common Medical Suffixes and Prefixes (E.S.P. Book)
- Correct use of vocabulary, reading scientific texts related to midwifery with appropriate speed and understanding of concepts and principles, correct writing of medical words and terms
- Translation and summarizing of midwifery scientific texts

Main course references:

Specialized books on midwifery and women and scientific articles on midwifery

- 1 English in basic medical sciences
- 2 Focus Series

- 1- Active presence in the class
- 2- How to do the assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course name: Principles of mother and child nutrition

Prerequisite or concurrent: Biochemistry and physiology 1 and 2

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- 1- Familiarity with the importance and role of proper nutrition in ensuring the health of the individual, especially mother and child according to economic, social, health and cultural criteria
- 2- Recognizing proper nutrition and recognizing the symptoms of malnutrition in mother and child
- 3- Evaluating the nutritional status during pregnancy and lactation.
- 4- Nutrition education for different periods, especially pregnancy, lactation, infants, children and prevention of malnutrition in mother and child

Course description: During this course, the role of proper nutrition in ensuring the health of the individual, especially mother and child, is explained. In this regard, students are familiar with nutrients, nutritional status, nutrition at different ages, nutritional diseases and nutrition of vulnerable groups.

Outline: (34 hours):

A: Principles of nutrition:

Chapter1: Defining the Concepts and Importance of Nutrition Role and Importance (3 hours)

- Major nutrition issues and problems in Iran and the world The importance of nutrition in health and community health and its relationship with economic, social and cultural factors and major nutrition issues in Iran and the world.
- The importance and relationship between nutrition science and midwifery expertise and the application of nutrition science.
- General principles of nutrition, goals, history, definitions, chemical composition of the body.
- Understanding the culture, traditions, eating habits of the region in relation to the nutritional status of the individual and society

Chapter 2: Nutrients and its main sources (9 hours)

- Proteins, carbohydrates, fats
- Energy, energy definition, measurement methods and energy needs, energy balance
- Water, salts and vitamins
- Complications and deficiencies and high consumption of any of the nutrients and the use of food to solve problems or diseases such as malnutrition, anemia and ...

Chapter 3: Preparing foods and general principles of nutrition and diet planning (3 hours)

- Food groups
- Uses and how to use food tables and substitute lists FAO WHO, RDA,
- Raw and cooked food tables

Side effects of deficiency and excessive consumption, balanced diet

Chapter 4: Principles of Food Preservation and Food Poisoning (3 hours):

- Principles and methods of food preservation in terms of maintaining food health and their nutritional value

Food Loss Process - Food Hygiene and Poisoning, Common Food Poisoning in Infants and Children Chapter Five: Nutrition Assessment Methods (3 hours):

Clinical review of nutrition status

Anthropometric examination

- Study of food consumption
- Socio-economic study
- B: Nutrition of mother and child

Nutrition at different stages of life

- Nutrition during pregnancy (4 hours)
- Nutrition in infancy (2 hours)
- Feeding the baby (2 hours)
- Adolescent nutrition (2 hours)
- Adult nutrition (1 hour)
- Nutrition in the elderly (2 hours)

Main course references:

- 1- Mahan L. Katbleen, Escott, Sylvia Krause's Food, Nutrition & Diet Thrapy. Printed in the United States of America U.S.A. (last edition)
- 2- Human Nutrition and Dietotics (J.S. Garrow W.P.T. James) last edition
- 3- Basic Nutrition and Diet therapy (sue Rodwell williams) last edition
- 4- Dudek, Susan G. Nutrition Essentials for Nursing practices (last edition). Philadelphia: Lippincott.
- 5- Nutrition during pregnancy, infancy and childhood, Forouzani Minoo, latest edition.
- 6- Infant nutrition based on physiological principles, Parsa, Susan, Deputy Minister of Research, Ministry of Health, Treatment and Medical Education,
- 7- Food industry, Maleki, Morteza. Dokhani, Shahram The latest edition
- 8- Basics of nutrition, Guthrie, Helen Andrews. The latest edition.
- 9- Integrated care of pediatric diseases (especially non-physicians), Ministry of Health, Deputy of Health, Family Health Office, Children Department
- 10- Improving the growth and nutrition of children, Ministry of Health, Deputy Minister of Health, Office of Community Nutrition
- 11- National Guide to Nutrition during Pregnancy and Breastfeeding, Ministry of Health, Deputy Minister of Health, Population and Family Health Office, Nutrition Improvement Office
- 12- Breastfeeding children, Isfahani, Mohammad Mehdi, latest edition
- 13- and other reliable up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- completing assignments 3- Participation in the midterm exam 4-Participation in the final exams

Course Name: History, Ethics, Laws and regulation in Midwifery

Prerequisite or concurrent: Pregnancy and Delivery 1 and 2 - Gynecology and infertility, Pediatrics,

Normal Delivery Practicum Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

- 1- Familiarity with the history of midwifery in the world and Iran and the developments of the midwifery profession in recent centuries
- 2- Familiarity with moral and spiritual criteria and its application in personal and professional life
- 3- Familiarity with the rules and regulations of midwifery (Iran and the world) and relevant legal organizations
- 4- Familiarity with the legal responsibilities of a midwife
- 5- Familiarity with Islamic penal laws in the field of midwifery violations
- 6- Familiarity with organizations, communities and midwifery associations (Iran and the world)
 - 6- Familiarity with reproductive health rights

7-

Course description:

During this course, students will get familiar with the history of midwifery in Iran and the world, the evolution of the profession over the last few centuries, the formation of organizations and associations related to the profession, ethical issues, rules and regulations in midwifery, as well as legal responsibilities of midwifery. The relevant punishment in case of violations as well as reproductive health rights will be known.

Outline: (17 hours)

1- Midwifery history: (4 hours)

The evolution of obstetrics and gynecology from the beginning of human life, midwifery before the history and the era of Hippocrates, before and after the birth of Christ in the Middle Ages - before and after Islam Family and ... - Modern midwifery in today's world

The evolution of midwifery in Iran, including the Middle Ages and the Renaissance (during the time of Ibn Sina or Ali ibn Abbas Ahwazi, before Safavid and after Safavid, 20th and 21st centuries, after the Islamic Revolution - the emergence of formal midwifery education and schools and colleges (governmental and non-governmental) Establishment of midwifery department in the Ministry of Health and its role, duties and activities - Role and share of midwifery in various departments of the Ministry of Health and health programs and service packages, etc. regarding midwives

Changing attitudes in the field of fertility issues, including medicalization (Demedicalization) and normalization of reproductive events with the design of medical approach and midwifery approach in fertility services

- 2- Ethics, rules and regulations in midwifery: (10 hours)
- Definition of ethics value and importance of ethics different theories of scientists and philosophers about ethics and Islam's opinion about ethics

- Definition of profession and profession of midwifery - International laws of ethics - Midwifery ethics, moral guarantees (piety, faith, self-sacrifice, commitment and responsibility for truth in speech and behavior, humility and moral humility in action, politeness and self-control, loyalty, spirit of service Dynamic human relationships in emotional support, information, etc., as well as education about mothers, family, community and colleagues.

Legal aspects of professionalism and professional duties: including job responsibilities such as punctuality, discipline, uniforms, etiquette, etc., keeping records, patient records, registration of examinations and reports, orders, informing the doctor, referral, negligence incidents And negligence, protection of property, observance of the principles of nosocomial infections as well as legal matters such as testimony, will and statements of the mother before death, confidentiality and professional secret and its philosophy and its legal limits

- The legal importance of occupational offenses and crimes in midwifery and its punishment
- Description of legal and approved duties of midwifery in different workplaces (hospitals, health centers, office and home, centers such as infertility and counseling centers and triangular clinics, etc.)
- Management duties as a manager Compared to other countries Advanced
- Employment laws and contracts and breach of contract (public, private and charitable centers, etc.)
- Work abroad

Familiarity with women's religious issues and related rulings

- 3- Midwifery and legal organizations and associations related to the profession: (1 hour)
- Organization of the medical system and the presence of midwives in it in order to have a professional midwifery system (effects, benefits, criticisms, etc.)
- Forensic medicine organization and how midwives communicate with it (midwifery violations, testimony, forensic midwifery, etc.)
- Iranian Midwifery Association before the Revolution and the Iranian Midwifery Population and the Iranian Scientific Midwifery Association after the Islamic Revolution
- Familiarity with other related associations that midwives are members of and can be, such as family planning association, medical education association, etc., as well as familiarity with other related public and charitable associations
- International Confederation of Midwives (ICM) and its role, benefits and activities, familiarity with other relevant international organizations such as WHO, UNFPA, UNICEF, ..., FIGO, ICN, and ...
- 4- Reproductive health rights: (2 hours)
- Human rights in the field of marriage, sexual issues, pregnancy and childbearing, family planning, parenting, child rights, etc. at the international and domestic level
- Reproductive rights of individuals in gamete donation, rented uterus, cloning, etc., the details of which are forensic medicine and midwifery.

Main course references:

Books of ethics and regulations for midwifery, as well as books of medical and nursing ethics, as well as the Islamic Penal Code, description of approved duties of midwives, statutes of medical system organizations, scientific association and midwifery population of Iran, websites of international organizations, government regulations and circulars on duties and Midwifery services and midwifery management issues and other valid matters in the opinion of the relevant professor

Student evaluation method in different areas:

Active presence in class - doing homework - final exam

Course Name: Law and Forensic Medicine in Midwifery

Prerequisite or concurrent: Concurrent with history, ethics, law and regulation courses

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

Familiarity with forensic topics related to the midwifery profession and the duties and responsibilities of midwives in this field

Course Description: During this course, the student will be introduced to the definition and various issues of medicine and midwifery, legal roles, duties and responsibilities of midwives in this field and their responsibilities to society.

Outline: (17 hours)

- 1- Basics of forensic medicine: definition of forensic medicine, duties and responsibilities of forensic medicine, structure and organization of forensic medicine
- 2- Medical and midwifery responsibilities: definition and its types, moral responsibility, oath, physical responsibility, criminal responsibility and employment responsibility
- 3- Medical and midwifery negligence and misconduct: Definition of medical and midwifery negligence and errors Legal types of medical and midwifery negligence, criminal types errors leading to death, errors leading to organ violation or complication and injury and errors leading to loss of other authorities' rights Law Islamic punishment and types of punishments and legal materials regarding the mentioned errors
- 4- Conditions of non-responsibility of physicians and midwives, conditions of medical and midwifery negligence, effective factors in complaints about medical and midwifery, consent and acquittal, informed consent, subject of legal consent, types of consent, necessary conditions for obtaining consent and exceptions in medical and midwifery certificates
- 5- Types of medical and midwifery certificates, death certificates, birth certificates, how to issue birth and death certificates, principles of certificate writing and punishment for false certificates
- 6- Confidentiality, types of secrecy, punishment for disclosing patient secrets in unnecessary cases
- 7- Mortology, definition and types of death, diagnosis of death and changes after death
- 8- Pregnancy, legal definition of pregnancy, the importance of pregnancy diagnosis from the point of view of forensic medicine, death during pregnancy, deaths during childbirth, deaths related to pregnancy
- 9- Fetal death during pregnancy or intrauterine death, diagnosis of elapsed time of fetal death inside the uterus, fetal death during childbirth and neonatal death after delivery and diagnosis of the cause, ability of the fetus to live outside the uterus, diagnosis of stillbirth and stillbirth, Determining fetal age and embryo necropsy
- 10- Abortion: Definition, types of abortion from legal point of view, spontaneous abortion, traumatic abortion, criminal abortion, medical abortion, maternal indications for abortion and fetal indications for abortion and methods of abortion

- 11- Legal materials regarding criminal abortion, fetal blood money and its legal compliance with fetal age
- 12- Violence against women and children and its forensic issues: spouse abuse and its types, beating of spouse, child abuse and its types, and infanticide, definition, types and methods of infant murder and their legal issues and information
- 13- Basics of forensic traumatology, types of injuries and its compliance with Islamic punishment
- 14- Basics of identification in living people and corpses, establishing a parent-child relationship with a child
- 15- Ethical and legal issues in HVF and artificial insemination, embryo and gamete donation, rented uterus, cloning and foster adoption, organ donation
- 16- Sexual issues from the perspective of forensic medicine: Hymen, examination method, Hymen types, diagnosis of Hymen health and its rupture, how to issue sexual examination certificates and Hymen
- 17- Deviations and sexual assaults, sexual disorders, indecent acts, examination of sexual victims, how to sample from genitals, sending samples to the laboratory, interpretation of test results, types of tests related to rape, legal provisions of Islamic punishment in relation to Sexual issues
- 18- Sexual identity disorder, transsexual and hermaphroditism, permission to change or correct gender

Main course references:

- 1- The book of general forensic medicine and poisoning, Tehran University of Medical Sciences and Health Services Publications, faculty members of Tehran University of Medical Sciences latest edition
- 2- Ethical History, Regulations of Midwifery and Legal Pregnancy, Dr. Farzad Gheshlaghi Isfahan University of Medical Sciences and Health Services Publications Last Edition
- 3- Forensic pathology, author B. Mayo, translated by Dr. Abedi et al., Forensic Medicine Research Center, latest edition
- 4- General legal requirements for assistants and obstetricians Dr. Hossein Panahizadeh, Sarman Jihad Daneshgahi Publications latest edition
- 5- Gamete and embryo donation in infertility treatment a group of authors from the Center for Research and Development of Humanities Samat Publications latest edition

Student evaluation method in different areas:

Active presence in class - Participation in the final exam

Course Name: Forensic Medicine in Midwifery Practicum

Prerequisite or Concurrent: History, Ethics, Laws and Rights in Midwifery - Law and Forensic

Medicine in Midwifery Number of credits: 1 credit Credit type: Internship

General purpose of the course:

Full knowledge of legal cases related to the midwifery profession and the ability to recognize legal cases from illegal such as abortion, virginity-related penalties etc.

Course Description: During this internship, students become familiar with the legal issues related to the midwifery profession through objective observation and performing some examinations and sampling.

Outline: (51 hours)

Observation, examination and sampling in legal cases related to the midwifery profession in forensic medicine centers.

A- Dissection room: 16-11 hours B- Gynecological and midwifery examinations 40-35 hours During 12 days (4 hours a day and 1.2 hours with a 15-minute rest) Note: The following should include 10-15 cases. (There is no problem in doing more than what is set)

Familiarity with how to	Familiarity with	Familiarity with maternal and fetal
determine a living or dead fetus	examinations of deaths due	autopsy and familiarity with
born to fetal age	to complications of	examination of bodies and victims
	pregnancy	of rape and necessary sampling
Examine women who have been	See how to prove the identity	Observation and examination of
abused or modestly abused	of the child and to whom it	girls, women and children who
	belongs	have suffered from aberrations,
		problems and sexual issues
Record one of your examinations	Familiarity with how to	Observation and examination of
as a midwife and reporting in	examine sexual victims,	forensic clients who have
accordance with legal regulations	clinical signs and symptoms	performed a criminal abortion
and standards	of rape, how to sample and	
	send to the laboratory if	
	necessary	
Participate in a hearing on a	Observation and	Observation and examination of
midwife's misconduct case	examination of children who	forensic clients who have become
	have been abused	pregnant illegally (proof of
		pregnancy)
Familiarity with actions of a	Performing examinations of	Observation and examination of

midwife that is known as a crime	forensic clients to determine	Hymen and diagnosis of healthy
and has legal penalties	and prove pregnancy	Hymen and its types and Hymen
		rupture and time elapsed from
		rupture and diagnosis of repaired
		Hymen
	Determining the type of	Familiarity with the cases referred
	injuries and its compliance	for obtaining a medical abortion
	with the Islamic Penal Code	license, Familiarity with maternal
		and fetal abortion indications,
		Familiarity with the legal process
		and procedures for issuing an
		abortion license

Main course references:

- 1. Books of ethics and midwifery regulations, as well as books of medical ethics, as well as books of legal and penal laws, as well as a description of midwifery duties (latest edition)
- 2. The book of general forensic medicine and poisoning Tehran University of Medical Sciences and Health Services Publications Faculty members of Tehran University of Medical Sciences and Health Services Dr. Mitra Akhlaghi Dr. Mahshid Afshar Dr. Sholeh Barouni 0 Dr. Fakhreddin Taghdasi Nejad Dr. Dr. Mazaher Ghorbani latest edition
- 3. Ethical History Regulations of Midwifery and Forensic Medicine, Dr. Farzad Gheshlaghi Isfahan University of Medical Sciences and Health Services Publications Latest Edition
- 4. Forensic Pathology Beymayu Writer Translated by Dr. Abedi et al. The latest edition of the Forensic Medicine Research Center
- 5. General Forensic Medicine for Residents and Obstetricians and Gynecologists Dr. Hossein Panahizadeh Jihad Daneshgahi Publishing Organization Latest Edition
- 6. Donation of gametes and embryos in the treatment of infertility a group of authors from the Center for Research and Development of Humanities with Samat Publications latest edition

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Embryology

Prerequisite or concurrent: Anatomy 1 and 2 - Cytology and histology

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

1- Familiarity with how the fetus is formed and the stages of its growth and development

- 2- Familiarity with the factors affecting the growth and development of the fetus in the womb
- 3- Familiarity with disorders related to different stages of fetal development and factors affecting it

Course description: During this course, students will get familiar with the formation of the fetus and its developmental stages, as well as the factors affecting its growth and related disorders.

Outline: (34 hours)

- A. General embryology
- 1- Defining the history and importance of embryology
- 2 Genital cell formation or gametogenesis, spermatogenesis, ovogenesis, abnormal myosgametes
- 3- Fetal development in the first week of fertilization, zygote and abnormalities of the first week, abnormal eggs and abnormal implantation conditions
- 4- Embryo development in the second week, implantation of embryonic button development
- 5- Fetal development in the third week, gastrolysis and continuation of development until the eighth week of the embryonic period, formation of three layers of the fetus
- 6- Fetal development during the active period from the third to the tenth month
- 7- Development of placenta and umbilical cord and placental abnormalities and placental abnormalities
- 8- Twins and all kinds of strange twins and other multiplications
- 9- Factors affecting the full development of the fetus, the effects of drugs, maternal diseases, smoking, addiction, nutrition and mental disorders, etc.
- B- Specific embryology:

Chapter One - General Development of Paraximal Mesoderm - Notochord - Musculoskeletal Development - Upper and Lower Limb Development

- Chapter 2 Intermediate mesoderm and urinary tract
- Chapter 3 Genital tract and related abnormalities (hermaphroditism, etc.)
- Chapter 4 Evolution of the circulatory system and related abnormalities
- Chapter 5 Development of the gastrointestinal tract and related disorders

Chapter Six - The Evolution of the Face

- Chapter 7 Ectoblast development and nervous system abnormalities
- Chapter 8 Development of the autonomic nervous system of the sympathetic and parasympathetic systems

Chapter 9 - Fetal growth rate

Observation of vasosperm under a microscope, embryo culture, observation of egg cell proliferation stages, embryonic growth in different weeks

Main course references:

- 1- Longman Embryology (translation), latest edition
- 2 Sadler, T.W. Langmans Medical emberyology. (last edition). Philadelphia: Williams & Wilkins, (last edition).
- 3- Moore, Keith L. Essentials of human embryology. Burlington: Decker, (last edition).

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Genetics

Prerequisite or concurrent: None Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- Full knowledge of the principles of diagnosis in genetic diseases in the fetus
- Acquiring the necessary skills in implementing methods of prevention and diagnosis of diseases (genetic diseases) in society
- Scientific and practical application of clinical and laboratory effects and signs in the field of genetics and cells in relation to the provision of clinical midwifery services
- Familiarity with chromosomal abnormalities

Course description: During this course, the principles of diagnosis of genetic diseases in the embryonic period are explained and students are introduced to chromosomal abnormalities, prevention methods and principles of pathogenesis.

Outline: (34 hours)

1- Medical genetics:

History and course of genetic evolution, definition of genetic science and current position of genetics in human life and organisms - branches of genetics, medical genetics, genetic factors and general structure and their general relationship with each other (chromosome, chromatin, chromatid, gene) p cell structure and E-cell life cycle, mitotic and meiotic division, gametogenesis in male and female.

Types of inheritance of traits and diseases in humans:

A. Single gene

Autosomal pattern (gene penetration and diverse gene expression)

Autosomal recessive

Depending to the sex of the dominant

Dependent to the sex of the recessive

(Genealogy drawing and problem solving)

B- Chromosomal

number (euploidy and anaploidy and description of anomalies)

Structural (deletion-enhancement-displacement-inversion and description of abnormalities and isochromosomes)

Preparation of karyotype

- C- Multifactorial inheritance of multiple genes- Normal traits (height and weight) -Regular diseases and abnormalities and its problems -Study of twins and heritability and variance.
- D- Cytoplasmic (mitochondrial) study of heteroplasmic-hemoplasmic-mutations and deletions of mitochondrial genome and related genealogies

2- Molecular genetics:

Molecular structure of a gene - How to prove that DNA is a molecular agent of inheritance - Principles and basics of DNA and RNA structure - How to duplicate DNA, how to convert genetic information from DNA into a final product (protein) - How to copy DNA and MRNA structure Principles of protein synthesis

Mutations and its types - Mutation results - Mutation factors - Mutation mechanism - Mutations and diseases in humans - HB molecule structure, Sickle cell anemia - Types of hemoglobin disorders - Principles of DNA amplification - Mendelian principles of genetics - How to create plasmid Intracellular Transplantation - Applications of Genetic Engineering Practice.

3- Immunogenetic:

Principles and classification of antibody structure - Mechanism of diversity in antibodies - HLA antigens (tissue transplantation and HLA - Diseases and HLA) - Main and subgroups of blood and RH - Issues related to blood and RH incompatibilities in the fetus and mother.

4- Prenatal diagnosis:

Importance and types of physical methods - biological - sonography - Xray fetoscopy, chorionic biopsy - amniotic fluid - principles of study of chromosomal and metabolic diseases, how to do it and indications - the most important diseases that can be diagnosed before birth.

5- Genetics and cancer:

The role of heredity in cancer, the relationship between chromosomes and cancer - The role of viruses and cancer - Oncogene genes - Carcinogenic cases - Mechanism of action of carcinogenic substances - The relationship of carcinogenic factors with oncogenic genes - Other issues, especially new issues in genetics.

6- Teratogens:

Definition of types of teratogens - Classification of teratogens - Description of a sample of different chemical, viral, microbial-pharmacological, physical, mechanism of action of teratogens - Tissue and organ sensitivity of teratogens - Social and medical importance, relationship of teratogens to mutagen and carcinogens.

7- Genetic counseling:

Definition, history, how it is done, scientific principles of limitations, cases of application and non-application - scientific and emotional issues.

8- Visiting genetic counseling centers

Main course references:

Genetics in Thompson Medicine. Thompson, James Scott. The latest edition.

- 2. Williams pregnancy and childbirth. Cunningham, F. gus. The latest edition
- 3 Medical Genetics principles and praetice: Nora / (last edition) Fraser
- 4- ABC of Clinical Genetics th. (last edition). Helen M Kingston.
- 5- And other valid up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Pregnancy and Delivery1-Normal pregnancy Prerequisite or concurrent: Basic science courses (Table B)

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- 1- Full knowledge of pregnancy physiology, pregnancy diagnosis, importance of health and nutrition during pregnancy, principles of prenatal care, common complaints caused by pregnancy and ways to prevent them, diagnosis of normal and abnormal cases during pregnancy and familiarity with necessary measures and care in each
- 2- Health education for mothers and families in the field of physical, mental, social and emotional issues

Course description: During this course, students will get familiar with pregnancy and its physiology, ways of diagnosis and principles of necessary care during this period, and common complaints caused by pregnancy in ways of preventing it.

Outline: (34 hours)

- 1- Introduction to midwifery science, maternal and child health and fertility, the purpose of midwifery science the position of midwives, their duties and competencies and skills, the position of midwives in the care delivery system health indicators (such as mortality rates ...) and the impact of midwifery services on them
- 2- A review of the description of the reproductive system and mentioning the types of pelvic in terms of delivery science
- 3- A review of the physiology of the reproductive system and the cycle of a normal menstrual cycle leading to pregnancy fertilization and pregnancy
- 4- Pre-pregnancy counseling and care in order to prepare for pregnancy
- 5- Pregnancy care, goals, terms, first and second examinations, taking history and examinations common tests in pregnancy, normal values of tests and necessary measures based on each of the results repetition of pregnancy tests and tests of special and important cases
- 6- Dangerous signs and abnormal symptoms that endanger the pregnancy, examinations and examination of the fetus during pregnancy
- 7- Leopold examinations (appointment, show, position, engagement, state) types of pelvis and their differences
- 8- Symptoms (probable and definite hypothesis) and diagnosis (urine, blood and ultrasound tests) of pregnancy Uses of ultrasound in pregnancy
- 9- Weight gain in pregnancy Nutrition of the pregnant mother (calories and important nutrients, etc.)
- 10 Public health and common complaints and disorders during pregnancy (nausea and vomiting and urinary disorders, skin and hair, mouth and teeth, etc.)

- 11- Physiological changes: material metabolism, hematological changes, immunity, coagulation, cardiovascular, pulmonary, urinary, gastrointestinal, endocrine, genital, skeletal and eye
- 12 Changes in decidua, amniotic fluid, umbilical cord and placenta placenta and placental hormones transfer of material from placenta to fetus
- 13- Training and preparation classes for pregnancy and childbirth (nutrition, physical exercises, sexual behaviors, breathing exercises and relaxation for childbirth and ...
- 14- Islam's opinion about health during fertilization and pregnancy and ...

Main course references:

- 1- Williams pregnancy and childbirth. Cunningham, F.. گاس. The latest edition
- 2- Mills Midwifery Textbook. Mills, Margaret F. The latest edition

Varneys Midwifery - (last edition), New York: Jones & Barlett 3 -

And other Essential of maternity Bobak health care or nursing books - 4

- 2-5 volumes of integrated maternal health care (hospital services guide inside and outside the hospital) Ministry of Health, Family and Population Health Office, Maternal Health Office
- 6- National guide to performing natural childbirth and providing non-pharmacological methods to reduce labor pain, Ministry of Health, Family and Population Health Office, Maternal Health Department
- 7- National guide to providing midwifery and maternity services, mother-friendly hospitals Ministry of Health, Family and Population Health Office, Maternal Health Department
- 8- Spiroff, glass case. Female Hormoneology and Infertility latest edition

- 1- Active presence in the class
- 2- completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Normal Pregnancy Practicum

Prerequisite or concurrent: Pregnancy and Delivery (1)

Number of credits: 1 credit Credit type: Internship

General purpose of the course:

1- Familiarity with prenatal care units (health centers)

- 2- Diagnosing and managing a normal pregnancy and gaining skills in performing prenatal care
- 3- Familiarity with education and counseling of pregnant mothers in relation to pregnancy (pregnancy health, common complaints during pregnancy and ways to prevent them, etc.)
- 4- Establishing proper communication with mother and family
- 5- Detection of abnormal cases with the supervision of the instructor and performing relevant care and actions (referral, etc.)
- 6- Observance of human, moral, Islamic and professional standards towards pregnant mothers, companions and employees

Course description: During the internship of this credit, students, while getting familiar with the units providing health services, perform prenatal care along with the necessary points under the supervision of instructors.

Outline: (51 hours):

Admission of the client - General and abdominal examinations

- Performing vaginal examinations to diagnose the onset of labor and the stages of labor progression
- -Requesting the necessary tests during pregnancy, prescribing, diagnosing abnormalities and following them up
- Carrying out the necessary training for mothers and fathers regarding pregnancy health (nutrition, exercise, etc.) and preparation for playing the role of parents
- Exercise training during pregnancy to prepare for childbirth

The above cases will performed in midwifery clinics (prenatal and examination room) under the supervision of a midwifery instructor.

During 12 days (4 hours a day and 1.2 hours with a 15-minute rest) (there is no problem in doing more than what is set by the student)

Interpretation and correct	Prescribing authorized and	
guidance	necessary drugs	-Taking history and physical examination
based on the results of ultrasound	during pregnancy	from
or fetal evaluation	for 10 pregnant women	25 normal pregnant
tests:3 cases		women (5 observations and 15 performed)
		with providing necessary education)
		-Brief acquaintance with 5
		high risk pregnancies

		within 12 days	
Examination of at least	Request 1-2 times U / A, U / C	Taking a history and psycho-social	
10 lower extremities for edema	during pregnancy	and physical evaluation from 5	
and its extent and varicose veins		cases of abnormal pregnant	
		women including various	
Teaching and explaining a	Request 1-2 cases of	internal diseases and surgery associated	
case of fetal movement testing	Ultrasound	with pregnancy such	
		as heart, diabetes, renal	
		urinary tract infection, anemia,	
		perinatal anemia,	
		perinatal ectopic pregnancy,	
		menopause, ectopic pregnancy	
		and 10 times Leopold maneuver	
		e.	
Providing different trainings	to see NST, 1-2 times	Perform 15 complete physical	
during pregnancy in 2 different		examinations of different organs of the b	
subjects (in class or individually)		(heart, lungs, thyroid, anemia, kidn	
		breasts, lower limbs)	
Interpretation and correct	Perform 1-2 rounds of	File and request routine or necessary	
guidance based on clients' test	Roll over test	tests during	
results in 10 cases		pregnancy for 10 pregnant women	
Participate in group discussions and			
study the theoretical topics			

Main course references:

- 1- Williams pregnancy and childbirth. The latest edition
- 2- Mills Midwifery Textbook. Mills, Margaret F. The latest edition
- 3- Varneys Midwifery (last edition), New York: Jones & Barlett, 4- Other Essential of Maternity Books
- 5- Other reliable up-to-date sources such as Spirov's female hormoneology
- 6- Two volumes of integrated maternal health care (hospital services guide inside and outside the hospital) Ministry of Health, Family and Population Health Office, Maternal Health Office
- 7- National guidelines about maternal and child birth.
- 8- National guidelines about providing midwifery and obstetrics services

- 1- Active presence in the classes
- 2- 2- completing and submitting assignments
- 3- 3- Participation in the midterm exam
- 4- 4- Participation in the final exam

Course Name: Pregnancy and Delivery (2), Normal, Safe and Physiological Delivery and Methods to

Reduce Labor Pain

Prerequisite or concurrent: Pregnancy and Delivery (1), Normal pregnancy practicum

Number of credits: 2 credits Credit type: Theoretical

General purpose of the course:

- 1) Acquiring sufficient knowledge about the physiological process of childbirth, how to manage and control and care for mother, fetus and baby during different stages of natural childbirth and the postpartum period.
- 2) Familiarity with pharmacological and non-pharmacological methods to reduce labor pain
- 3) Achieving correct insight and correct diagnosis and appropriate decision-making in performing the necessary care and providing the necessary education to the mother according to scientific, cultural, social, moral, religious and legal principles.

Course description: This course explains the methods of reducing non-pharmacological pain and in this way, students are introduced to various methods of reducing labor pain.

Outline: (34 hours)

- Mechanism of delivery, delivery management and normal and physiological delivery: admission: taking history - general examinations of abdomen and pelvis - uterine contractions and general condition of the mother physically and mentally, and reviewing the history

First stage of labor: definition, management and necessary care of the mother (position, nutrition, urination, defecation, venous fluids, rest, mental attention, vital signs, request for necessary tests, perineal lavage, general maternal health, breathing exercises), Active administration of labor (amniotomy, acceleration of labor with oxytocin), prescribing drugs for the development of dilatation (benefits and complications), recording the progress of labor (Partograph of labor), determining and prognosis of labor, examining the condition of the mother, serum administration, positioning and movement, use of pain relief measures, evaluation of fetal status and prevention of possible complications.

Fetal evaluation during delivery: fetal care, types of electronic fetal monitoring, FHR pattern, and changes (cardiac arrhythmias, including types of fetal heart rate drop (premature, late and variable and its causes) and other disorders, treatment of abnormal pattern of heart rate, monitoring complications, fetal distress (diagnosis, treatment and control)

Second stage of labor: definition and diagnosis, administration and performance of necessary care (mother's positioning, pushing education, preparation of the maternity environment, pay attention to the mother mentally and physically), shoulder and trunk protrusion, different positions holding the baby during delivery, baby-mother contact, immediate maternal care immediately after birth).

Episiotomy (definition, types, timing, repair and necessary education for the mother)

Infant: Immediate care and evaluation (Apgar score, umbilical cord clamp, prevention of heat loss in infant, neonatal CPR, neonatal examination and examination of reflexes), umbilical cord infection, temperature, immunization, vitamin K administration, identification, trauma and bleeding, continuity

of care, discharge and parent education, rooming in), routine screening tests, circumcision, the effects of the drug on on fetus, trauma and bleeding, discharge and education of parents and continuation of care.

Third stage of labor: Definition, diagnosis of placental abruption, management and necessary care (vital signs, placental abruption techniques, use of oxytocic substances (types, effects, complications), attention to the amount of bleeding, umbilical cord blood sampling), Courage and removal of the placenta by hand, intrauterine examination

Fourth stage of labor: Definition, placenta examination, administration and necessary care (vital signs, bleeding, height and consistency of the uterus, perineal examination, control of absorption and excretion).

Methods of managing labor pain:

The theory of pain and the mechanism of creating and feeling pain

- Pregnancy preparations
- Breathing techniques and relaxation
- Read Method Dick
- Bradley Method
- Lamaze Method

Methods of controlling labor during labor

- 1- Methods of reducing pain
- Change position and correct the situation
- Opposite pressure
- Remove pressure from the abdomen
- 2- Surface receptor activation techniques
- Surface heat and cold
- Hydrotherapy and water delivery
- Touch and massage
- Acupuncture and acupressure
- TENS Electrical stimulation of the nerve through the skin
- -Intracutaneous injection of distilled water
- Aromatherapy
- 3- The technique of increasing the inhibition of pain-reducing lower pathways
- Attention focusing and distraction
- Music
- -Biofeedback
- -Hypnosis
- 4- Pain control methods (inhaled and injected)

Postpartum care: Postpartum pain, Lucia excretion, Perineal hygiene, Get out of bed, Urinary excretion, Intestinal function, Nutrition, Vital signs, Breast care, Breastfeeding, Intercourse, First menstruation, Mental health, Exercise, time of discharge, Counseling and education of the spouse about the role of the father and assistance to the wife in the care of the baby, Education of postpartum care after discharge, including the following:

Postpartum education: Maternal personal hygiene, Wound care, Bathing, Nutrition, Intimacy, Family planning, Danger symptoms (bleeding and hemorrhage, Chills and fever, suprapubic pain and

infectious discharge), Vaccination, Neonatal screening tests, Breastfeeding, Infant colic, Jaundice, Urination and defecation of neonate, Growth monitoring ...

Care from 6 hours to 2 months after delivery: time and number of visits and related standard services and help the mother and parents to take care of the baby

Home birth: how to support the health care system, home visits, selecting a qualified pregnant mother, preparing the mother and family, anticipating the necessary facilities and how to transfer the mother to the hospital, mother education, advantages and disadvantages, ethical and legal considerations.

Birth Centers:

Familiarity with birth centers and how midwives work in those centers

Main course references:

- 1- Williams pregnancy and childbirth, The latest edition
- 2- Mills Midwifery Textbook. Mills, Margaret F. A.H.

- 1- Active presence in the class
- 2- completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exam

Course Name: Normal Delivery Practicum

Prerequisite or concurrent: Pregnancy and Delivery 2

Number of credits: 2 credits Credit type: Internship

General purpose of the course:

Gaining ability to management and performance of natural childbirth Gaining ability to distinguish between normal and abnormal deliveries Gaining ability to caring for mother and baby Gaining ability to manage the postpartum stage and control childbirth

Course description: During the internship of this credit, students are provided with the chance of managing and guiding the pregnancy and childbirth and making this experience enjoyable.

Outline: (144 hours)

- Controlling and performing the necessary examinations in admission of mother and diagnosing the need for hospitalization, performing the necessary medications and fluid therapy, requesting the necessary tests
- Performing labor education (mental relaxation, muscle, breathing exercises, etc.) requesting the necessary tests, performing maternal care in labor, evaluating the fetus during childbirth, examining the FHR pattern and diagnosing abnormalities, taking appropriate action in the different situations, recording information in partograph)
- Performing normal deliveries, examination and care of the newborn
- Managing the postpartum stages, performing maternal examination and discharge after delivery
- Education, counseling with the mother in cases of family planning, breastfeeding, etc. (counseling with the spouse and family, if necessary)

13 days during morning and evening for 10 hours (every day 1 hour for prayer and lunch) = 2 points Note: (there is no problem in doing more activities by students)

Umbilical cord clamp	Wearing gloves	Attendance at pregnancy and
and physical examination	and scrub and using	childbirth preparation classes -
of the baby, Vitamin	the equipment correctly	taking a history, physical
K injection and monitoring of	and opening the pack	examination and doing Leopold
the bracelet and monitoring of	correctly and providing the	maneuvers, and getting vital signs
the baby's foot print in 4-10	necessary equipment by applying	in 20 cases
cases	the correct principles of	
	sterilization for 4-10 cases	
Assistance in repairing	Properly perform prepping and	FHR control in at least 100 cases
episiotomy or rupture in one	draping for 4-10 perineal	including finding the correct
case with necessary attention		location, checking the fetal pulse
and care before, during and		with the mother's pulse, complete
after repair		one-minute control, necessary

		control immediately after
		-
		contractions and counting and
		getting familiar with the
	D 6	monitoring devices
	Performing correct episiotomy	Vaginal examination: dilatation
1	anesthesia in one case	effacement, station, fetal position,
cases		cervical position, amniotic sac
		position and to some extent pelvic
		examination (12-20 times)
Proper disposal of contaminated	_	Necessary examination and
	episiotomy and observing 5 cases	deciding to hospitalize mother in
	of anesthesia and 5 cases of	labor in 3 cases
in the relevant places after	episiotomy	Use of non-pharmacological
delivery 4-10 cases		methods to reduce labor pain
Establishing bonding and	Observe 5 cases of deliveries	Preparing the mother for labor
attachment between the		room (clothing, bed,
newborn and mother after		recommending to empty the
delivery in 4-10 cases		bladder, taking a vein and serum,
		if necessary, blood sampling and
		necessary explanations) in 10
		cases
		Complete management and
Provide comfort for patient and	Assistance 4 deliveries	control of labor (including control
control the fourth stage		of heart sound, control of uterine
(including hemorrhage control,		contractions, nutrition, position,
checking uterine height and		trustworthy relationship,
consistency, vital signs,		necessary education and
patient's orientation every		emotional support during
quarter to one hour) after		childbirth, vaginal examination,
delivery and correct registration		attention to bladder emptying,
and reporting it to the instructor		helping to relieve pain using
/ midwife in 10-4cases		various methods, prescribing
		medication and fluid) in necessary
		cases, answering the questions of
		the mother) in 24 cases for at
		least 3 hours, 1-2 of them are
		receiving induction
		receiving moueton
Provide complete postpartum	Complete delivery in 4-10 cases	Perform amniotomy by observing
education to the mother before	_ ,	all the necessary conditions in 1
delivery (including self-care		case
	l .	

and personal hygiene, bathing,	Monitoring the condition of the	Diagnosis of delivery time and
wound care, lucia, nutrition,	infant immediately after delivery	timely transfer the mother to
hygiene in defecation and	(opening the airway, preventing	delivery room in 4-10 cases
urination, dangerous signs in	hypothermia, stimulating breathing	
the mother and the need for	to improve Apgar score 1 and 5	
immediate referral,	minutes after birth in 4-8 cases)	
breastfeeding, vaccination,	Discharge of the mother and	
neonatal vaccination), Other	performing the necessary	
neonatal care, neonatal danger	examinations and educate mother	
signs, tests for screening for	during discharge about caring	
diseases leading to neonatal	herself and her child in 2 cases	
retardation, sexual intimacy and		
family reunification, as well as		
the possibility of re-pregnancy		
and the time and place of		
subsequent visits) in 4-10 cases.		
Participate in group discussion		
and study the theoretical topics		

Main course references:

- 1- Williams pregnancy and childbirth. The latest edition.
- 2- Mills Midwifery Textbook. Mills, Margaret F. The latest edition
- 3 Danforths obstetrics and gynecology edited by James R. Scoot. (the last edition). Philadelphia: Lww
- 4 Current obstetric gynecology diagnosis and Treatment, edited by Alan H. Decherney. (the last edition). New York: McGraw Hill.
- 5 Maternity and women's health Care / edited by Ditra Leonard Lowder Milk and etal. (the last edition). st. Louis: Mosby
- 6 A Guide to effective care child birth. 3rd ed. oxford: oxford university,
- 7 Varneys Midwifery (the last edition), New York: Jones & Barlett
- 8- Denise Tiran and Sue Mack -Complementary Therapies for pregnancy and child birth
- 9-Essential of maternity Bobak

And other books on health care or maternal and child care

- 10- National guidelines about performing natural childbirth and providing non-pharmacological methods to reduce labor pain.
- 12- National guidelines about providing midwifery and maternity services, mother-friendly hospitals.
- 13- Books related to physiology pain as well as various pharmaceutical and non-pharmacological methods to reduce labor pain
- 14- Women's health from another perspective, Roosta, Firouzeh, Minokdeh, Shiva. The latest edition

Student evaluation method in different areas:

1- Active presence in the class

- 2- completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exam

Course Name: Pregnancy and Delivery (3)- Abnormal Pregnancy and Delivery

Prerequisite or concurrent: Pregnancy and Delivery (1) - Pregnancy and Delivery (2)

Number of credits: 2 credits Credit type: theoretical

General Purpose of the course: To acquire sufficient knowledge about the diagnosis, management and care of mother and fetus in abnormal pregnancies and deliveries

Course description:

During the course, the diagnosis, management and care of mother and fetus in abnormal pregnancies and deliveries are taught.

Outline: (34 hours)

Note: Whenever more time is needed, with the approval of the midwifery department, between 50 and 100% can be added to the teaching hours.

Types of dystocia during labor, including output forces, birth canal, fetus, etc. - Abnormal fetal lie and presentations and positions - Changing positions in the mother -

Forceps, vacuum, cesarean section and subsequent care - augmentation and induction and other drugs used in labor and how to do them and their side effects

Fetal monitoring during pregnancy and fetal health assessment tests in cases of abnormal pregnancy Perineal and uterine ruptures - Uterine reversal - Manual placental abruption - Postpartum hemorrhages - Postpartum infections - DIC- Abortion - Ectopic pregnancy - Trophoblastic diseases of pregnancy (hydatidiform mole) - GTT - invasive mole

Placenta previa - Premature placental abruption - Traumas in pregnancy and its care - Diseases and abnormalities of the placenta (placenta accreta, etc.) and fetal membranes (polyhydramnios - oligohydramnios - umbilical cord prolapse - infection and inflammation of the fetal membranes)

Premature delivery - Premature rupture of fetal membranes - Prolonged pregnancy

Intrauterine growth retardation - RH and ABO incompatibility

Severe pregnancy vomiting - hypertension in pregnancy (preeclampsia - eclampsia, chronic hypertension, etc.)

Multiple pregnancies - Pregnancy in young and old women - Addiction in pregnancy - Other important and new cases that are not included in the course of pregnancy and childbirth, according to the professor

Main course references:

- 1. Pregnancy and Childbirth Williams, The latest edition.
- 2. Mills Midwifery Textbook, Mills, Margaret F. The latest edition
- 3 Danforths obstetrics and gynecology edited by James R. Scoot. (The latest edition). Philadelphia: Lww
- 4 Current obstetric% gynecology diognosis & Treatment, edited by Alan H. Decherney. (The latest edition) New York: McGraw Hill.

- 5 Maternity & womens health Care / edited by Ditra Leonard Lowder Milk and et al. (The latest edition). st. Louis: Mosby
- 6 A Guide to Effective care child birth. (last edition). oxford: oxford university,
- 7 Varneys Midwifery 3 rd ed, New York: Jones & Barlett
- 8- Essential of maternity Bobak
- 9 Carlson, Karen J., Stephanie A., Eisentot Primary care of woman st. Louise Mosby.
- 10- Maternity Nursing / Naternal and child Nursing
- 11 Danforths obstetrics and gynecology edited by James R. Scoot. (The latest edition). Philadelphia: Lww.
- 12 Novaks gynecology, edited by Jonathan s. Berek. (The latest edition). Philadelphia: Lww.
- 13 High risk Pregnancy Management options, edited by David k. James. (The latest edition). London: W.B. Saunders.
- 14 Labor prepartion, simlin, 2009 (The latest edition)
- 16- National guidelines to performing natural childbirth and providing non-pharmacological methods to reduce labor pain.
- 17- National guide to providing midwifery and obstetrics services, mother-friendly hospitals.
- 18- Women's health from another perspective, village, turquoise, Minokdeh, Shiva.
- 19-Complementary Therapies for pregnancy and child birth Denise Tiran and Sue Mack Student evaluation method in different areas:
 - 1- Active presence in the class
 - 2- 2- completing and submitting assignments
 - 3- 3- Participation in the midterm exam
 - 4- 4- Participation in the final exam

Course Name: Normal and Abnormal Delivery Practicum Prerequisite or concurrent: Pregnancy and Delivery (3)

Number of credits: 2 credits Credit type: Internship

General purpose of the course:

- Acquiring skills in performing normal and abnormal deliveries
- Diagnosis and care of abnormal pregnancies, familiarity with breech, twin, premature and late delivery
- Familiarity with devices such as fetal monitor, forceps, vacuum and its application and cesarean delivery
- Familiarity with courage and curettage

Course description: During this internship, students take care of patients and perform normal deliveries in order to gain skills in performing normal deliveries and diagnosing and caring for abnormal pregnancies and getting familiar with performing abnormal deliveries.

Outline: (144 hours):

- Controlling and performing the necessary examinations in accepting labor and diagnosing the need for hospitalization
- Performing patient education in labor (mental relaxation, muscle relaxation, breathing exercises, etc.) requesting the necessary tests, performing maternal care in labor, evaluating the fetus during childbirth, examining the FHR pattern and diagnosing abnormalities, taking appropriate actions in various situations, record information in Partograph)
- Performing normal deliveries, examination and care of the newborn
- Managing the postpartum stages, performing maternal examination and discharge after delivery
- Education, counseling with the mother (spouse and family) in cases of family planning, breastfeeding and ...
- Delivery with episiotomy and repair of tears
- Management of abnormal deliveries such as breech, twin, premature and late delivery, preeclampsia, membrane infection and ...
- Performing labor stimulation and prescribing medication in different cases
- Serum infusion
- Delivery in mothers with heart, respiratory, renal and urinary, blood, infectious, gastrointestinal diseases and
- -Ability to manage and control clients who have instrumental delivery.
- Acquiring skills in prescription
- -Courage and manual removal of the placenta and intrauterine examination in stage 4, observation of abortion, curettage and cesarean section and assistance with relevant care

13 days in the morning and 10 hours in the evening (every day one hour is devoted to prayer and lunch) = 2 credits (for normal and abnormal deliveries)

Note: Half to two thirds of the following should be used in cases such as diabetes, preeclampsia, premature rupture of the amniotic membranes, post-date / post term and previa, cardiac disease, twin, breech, fetal death, IUGR, preterm delivery, vacuum, etc. The name of each case should be recorded in the summary that the student writes for each individual so that it can be determined later whether each student has been trained in all cases and how many cases he / she has done in each case. (There is no problem in doing more than the amount predicted by the student.) Umbilical cord clamp and physical Wearing the right gloves and Taking history, physical examination of the infant, injection of scrub and using the examination and Leopold doing vitamin K and supervision of the bracelet equipment correctly and maneuver, and vital signs in 20 cases and taking the foot print in 4-10 cases opening the pack correctly FHR control, at least in 100 cases (as and providing the necessary much as necessary for labor control) equipment by applying the including finding the right place, correct principles of sterility compering fetal pulse with maternal and protection of 4-10 cases pulse, complete 1 minute control, Episiotomy 2 cases with necessary Properly perform prepping necessary control immediately after attention and care before, during and and draping for 4-10 perineal contraction, counting and recording after repair and using monitoring Proper placenta delivery and complete Perform correct episiotomy Vaginal examination: dilatation, examination of 4-10 cases effacement, station, position, cervical anesthesia in 2 cases and position, bladder position and pelvic pudendal anesthesia in 1 Manual removal of the placenta and case, if possible examination (12-20 times) intrauterine examination in the fourth stage in 1 case Proper disposal of contaminated Diagnosing the need for Necessary examination and decision consumables and proper collection of episiotomy and performing to hospitalize the fetus in labor 3 non-consumables in the relevant places episiotomy 2 cases cases after delivery in 4-10 cases Establishing bonding and attachment Observe Labor management Preparing the mother for the labor between the newborn after delivery in 4in almost 5 cases (clothing, bed, advising to empty the 10 cases bladder, taking blood vessels and serum if necessary, and taking blood and giving necessary explanations to the delivery) in 10 cases Assistance 4 deliveries Provide comfort for patient and control Complete management and control of the fourth stage (including hemorrhage labor (including control of heart control, checking uterine height and sound, control of uterine contractions, consistency, vital signs, patient's nutrition, position, trustworthy orientation every quarter to one hour) relationship, necessary education and after delivery and correct registration and emotional support during childbirth, reporting it to the instructor / midwife in vaginal examination, attention to 4-10 cases. bladder emptying, helping to relieve Provide complete postpartum education Complete delivery of 4-10 pain using various methods, prescribing medication and fluid) in before transferring the mother to the cases necessary cases, answering the

lucia rubra, nutrition, hygiene in defecation, danger signs in the mother need Immediate referral, breastfeeding, fecal and urrinary incontinence, vaccination, other neonatal care, neonatal symptoms, tests for screening for diseases leading to retardation, sexual intimacy and family planning, and return of menstruation and the possibility of re-pregnancy and the time and place of subsequent visits in 4-10 cases and consultation with a couple 1 case Observing abortion, curettage and cesarean section and helping the mother and baby after care Discharge of the mother and performing the necessary examinations and educate mother during discharge about caring herself and her child in 2 cases Participate in group discussion and study the theoretical topics are receiving induction Complete management and control of labor (including control of heart sound, control of uterine contraction nutrition, position, reliable communication and necessary training and emotional support of childbirth, vaginal examination, attention to bladder emptying, helpir to relieve pain using various non-pharmacological methods, Necessary fluid therapy in the required cases, answering the questions of childbirth or companion, etc.) 24 cases of each case for at least 3 hours, of which at least 2-3 cases are induction and half of them are cases Discharge of the mother and performing the infant immediately after delivery (opening the airway, preventing hypothermia, stimulating breathing to improve Apgar score 1 and 5 minutes after birth in 4-8			
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the theoretical topics improve Apgar score 1 and 5 minutes after birth in 4-8	herself and her child in 2 cases	preventing hypothermia,	
minutes after birth in 4-8	Participate in group discussion and study	stimulating breathing to	
	the theoretical topics	improve Apgar score 1 and 5	
		minutes after birth in 4-8	
cases)		cases)	

Main course references:

- 1. Pregnancy and Childbirth Williams, Cunningham, F. Gus. The latest edition
- 2. Mills Midwifery Textbook, Mills, Margaret F. The latest edition
- 3 Danforths obstetrics and gynecology edited by James R. Scoot. (The last edition). Philadelphia: Lww
- 4 Current obstetrics and gynecology diagnosis and Treatment, edited by Alan H. Decherney. (The last edition). New York: McGraw Hill.
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- 11 Danforths obstetrics and gynecology edited by James R. Scoot. (The last edition). Philadelphia: Lww,
- 12 Novaks gynecology, edited by Jonathan s. Berek. (The last edition). Philadelphia: Lww.
- 13 High risk Pregnancy Management options, edited by David k. James. (The last edition). London: W.B. Saunders.
- 14 Complication in Pregnancy
- 15 Complementary Therapies for pregnancy and child birth Denise Tiran and Sue Mack
- 16- National guide to performing natural childbirth and providing non-pharmacological methods to reduce labor pain.
- 17- National guide to providing midwifery and obstetrics services, mother-friendly hospitals.
- 18- Also internal diseases and surgery in pregnancy and childbirth, latest edition
- 19- And books related to pain physiology and also books related to various pharmacological and non-pharmacological methods of reducing labor pain
- 20- Women's health from another perspective, Roosta, Firoozeh, Minokdeh, Shiva.

- 21- Active presence in the class
- 2- completing and submitting assignments
- 3- Participation in the midterm exam
- 4-Participation in the final exams

Course Name: Pregnancy and Delivery 4- Medical and Surgical Diseases in Pregnancy and

Delivery

Prerequisite or concurrent: Pregnancy and Delivery (1), (2) and (3) - Physiopathology and medical diseases (1), (2) and (3) - Physiopathology and surgical diseases - Medical & surgical diseases

Practicum

Number of credits: 1 credit Credit type: Theoretical

General purpose of the course:

- 1. Recognition of basic needs and diagnosis of human conditions during health and illness, especially pregnant women with internal diseases and surgery and its effects on pregnancy and childbirth and vice versa. Identify the problems and needs of the mother and make the appropriate decision in selecting priorities for the implementation of relevant care.
- 2. Application of scientific findings in providing services to sick and vulnerable pregnant women and providing the necessary medical assistance when necessary.
- 3. Recognizing professional responsibilities and limitations, adhering to the observance of Islamic principles and norms when providing services in order to protect the lives of mothers and children and ensure their health.

Course description:

During this course, while reviewing the changes in the physiological state of the mother during pregnancy, the diseases of pregnant women with respiratory, cardiovascular, pulmonary, renal and urinary, gastrointestinal, hepatic, blood, endocrine, neurological and psychiatric problems are also taught.

Outline: (17 hours)

Note: In case of lack of hours, with the approval of the midwifery department, between 50 and 100% can be added to the lessons.

Assessment of mother's condition (2 hours)

Physiological changes and changes in laboratory values - Prescription of drugs during pregnancy - Effects of surgery and anesthesia on pregnancy outcomes - Imaging methods - Ultrasound

Trauma (impenetrable-penetrating-treatment)

Heart disease in pregnancy (2 hours)

General measures - Pre-pregnancy counseling - Heart transplant - Vulvar diseases - Pulmonary artery hypertension - Effects on pregnancy - Cardiomyopathy around the maternity ward - Idiopathic cardiomyopathy

Infectious endocarditis - Thromboembolic diseases (superficial-deep vein thrombosis treatment) before and after delivery - Pulmonary embolism

Lung diseases (2 hours)

Shortness of breath in pregnancy - pneumonia, causes - diagnosis - treatment and prevention Pathophysiology of asthma - Effects of pregnancy on asthma - Effects of asthma on pregnancy and fetus - Carbon monoxide poisoning - Acute respiratory failure - Clinical and therapeutic course

Kidney and urinary tract diseases (2 hours)

Urinary tract changes in pregnancy

Evaluation of kidney diseases during pregnancy - Pregnancy after nephrectomy - Urinary tract infections - Asymptomatic bacteremia - Acute and chronic pyelonephritis and urethritis - Kidney stones in pregnancy - Diagnosis - Treatment -

Glomerulopathies (glomerulonephritis - acute, chronic - rapidly progressing - nephrotic syndrome

Polycystic kidney disease and pregnancy

Chronic kidney disease in pregnancy

Getting pregnant after a kidney transplant

Dialysis during pregnancy

Acute renal failure (obstructive-idiopathic postpartum)

Gastrointestinal diseases (2 hours)

Diagnostic methods

Upper gastrointestinal disorders

Severe pregnancy vomiting

Reflux esophagitis, hiatal hernia, diaphragmatic hernia, achalasia, peptic ulcer, upper gastrointestinal bleeding

Small bowel and colon disorders - inflammatory bowel disease and pregnancy ostomy and pregnancy lleus

Appendicitis - Acute colitis

Liver disease (1 hour)

Severe pregnancy vomiting - Intrahepatic cholestasis in pregnancy - Acute fatty liver in pregnancy - Coagulation disorders - Effects on pregnancy.

Liver in preeclampsia and eclampsia

Hepatic hematoma and its rupture

Viral hepatitis

Chronic active hepatitis - cirrhosis and pregnancy

Esophageal varices in pregnancy

Liver transplantation

Blood diseases (2 hours)

Anemia (etiology of the effects of anemia on pregnancy) - Iron deficiency anemia - Anemia due to acute bleeding - Anemia with chronic diseases - Kidney disease - Thalassemia - Megaloblastic anemia - Folic acid deficiency - Vitamin B12 deficiency - Hemolytic anemia Acquired - Pregnancy hemolytic anemia - Polycythemia - Thrombocytopenic purpura - Shock bleeding and anemia

Bacteremia and septic shock, hemodynamic changes in septic shock, diagnosis and treatment. Infectious shock and its diagnosis and treatment

Endocrine diseases (2 hours)

Diabetes, thyroid diseases and other important cases

Neurological diseases (2 hours)

Pathophysiology of invasive disorders - Epilepsy in pregnancy - Migraine headaches - Multiple sclerosis - Hannington disease - Carpal tunnel syndrome - Postpartum depression

The main references of the course: Same as the sources of theoretical courses of pregnancy and childbirth 1 to 3

Internal diseases and surgery in pregnancy and childbirth, latest edition Complication in Pregnancy

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Neonatology

Prerequisite or concurrent: Embryology

Number of credits: 2 credits Credit type: Theoretical

The general purpose of the course:

- 1- Recognizing the condition of the neonates and toddler during health and illness and identifying the needs and deciding on taking necessary and appropriate measures, especially for vulnerable infants such as premature infants, etc.
- 2- Familiarity with abnormalities and diseases of infants and toddlers and the ability to perform the necessary examinations with neonates and toddlers
- 3- Recognizing how growth, development and the role of breastfeeding on the health of the child and helping to prevent diseases and infant mortality and gaining skills in teaching the above to mothers
- 4- Observing the principles of hygiene and prevention of diseases, including vaccination, in order to give the necessary education to the mother and family for the health of the neonates.

Course description: In this course, the teaches various topics about recognizing the condition of neonates and toddlers during health and illness, identifying their needs in cases of taking necessary and appropriate measures.

Outline: (34 hours)

- Growth and development in different periods of life (cognitive, psychological and physical development)
- How to prepare a history of neonates and toddlers and perform clinical examinations Observe health tips in the ward and during the examination
- Normal and premature neonates Diagnosis and determination of age and related care for premature neonates and kangaroo care The importance of emotional communication between neonates and parents
- Diagnosis of high-risk neonates Accidents in the delivery room
- Neonatal Apgar score (required equipment and drugs, action steps, etc.) Familiarity with the devices available in the department: pulse oximeter, ventilator, phototherapy, incubator ...
- Asphyxia (pathophysiology of complications and care)
- Neonatal apnea (pathophysiology, risks and methods of CPR and medication)
- Birth injuries (nerves, organs, etc.)
- Respiratory disorders including RDS, aspiration, cyanosis, airway obstruction, respiratory abnormalities, tracheal and esophageal disorders, duct stenosis
- Posterior pharynx, diaphragmatic hernia, microcephaly, tracheomalacia, etc. (symptoms, complications, care and treatment measures)
- Genitourinary disorders at birth (symptoms, complications, care)
- Neonatal infections (physiopathology, clinical course, causes of diagnosis and treatment and care)
- How to isolate and its special care
- Neonatal jaundice (physiopathology, clinical course, causes, diagnosis and treatment and care)

- Neonatal seizures (physiopathology, causes, treatment and care)
- Feeding of newborns and toddlers with emphasis on breastfeeding and rooming-in Child-friendly hospitals
- Necessary tests for neonatal screening to diagnose congenital diseases such as hypothyroidism, phenylketonuria, etc.
- Caring for abnormal babies
- Common neonatal problems and related care
- Nutritional disorders in neonates and children How to administer serum and fluid therapy and electrolytes in the infant and related calculations
- Prevention by vaccination program
- Neonatal AIDS

The main references of the course:

- 1- Nelson Pediatrics Textbook of Mechanical Infant Ventilation under the supervision of Parisa Mohagheghi, latest edition
- 2- Other reliable up-to-date sources and nursing books for neonatal care
- 3- Kangaroo Care, Ludington Hu, S, Glant, SK, latest edition
- 4- Kangaroo care, Guide for caring for premature infants for parents, Ministry of Health, Family and Population Health Office, Neonatal Health Department
- 5- WHO and UNICEF Support and promote maternal nutrition in child-friendly hospitals, Ministry of Health, Department of Child Health
- 6- Nichols Francine H. child birth Education. "Practice, Research and Theory, OSA: W.B. saunders (last edition)

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Neonatology Practicum

Prerequisite or concurrent: Neonatology (theoretical)

Number of credits: 1 credit Credit type: Internship

General Purpose of the course: Familiarity with examinations and care of healthy and abnormal neonates and educating the mother

Course Description: In this course, a student can learn about the neonate and how to diagnose a normal neonate from abnormal and how to care a healthy and un-healthy newborn, and give the necessary training on how to care for and feed the neonate.

Outline: (51 hours)

Carrying out examinations, care and prescriptions for healthy and high-risk neonates in the postpartum ward and neonates of the teaching hospital

During 12 days (4 hours a day and 1.2 hours with 15 minutes of rest) to perform examinations and care in at least 10 neonates (there is no problem in do more than what is determined by the student)

Teaching the mother about how	Healthy care of neonates in 3	10 cases of physical
to give medicine to the baby 1	cases	examination of the infant in
case		terms of health examination:
See 1 consultation and if possible		examination of head and neck
1 consultation		and fontanelles, face, chest,
1 Consultation		heart, abdomen, abdomen,
		spine, color, pelvic joint,
		Babinski test, genital tract, fetal
		age tests, reflexes and nerve
		tests
Performing neonatal discharge	Premature neonates' care in	Training on 2 cases of
examination 1 case	2 cases	breastfeeding
Vaccination training, nutrition	Working with the incubator	Perform 1 case of rinsing the
and care of the baby, growth of	and caring for the neonates	baby's stomach by inserting a
the baby, urine and feces and	in the incubator in 3 cases	catheter
crying of the baby, change of old	Working with phototherapy	
clothes, newborn danger signs,	device 1 case and getting	
necessary tests, umbilical cord	familiar with other devices	
care, fever and seizures, etc. 2	and devices	
cases		
Familiarity with neonatal CPR	High risk neonates care	Perform a gavage case by
devices and its application on	(RDS jaundice)	inserting a catheter
case modeling and observing 1	Calculation of medication	Perform 1 case of lavage by
case of neonatal CPR	and execution of doctor's	inserting a catheter
	prescription in 3 cases	
How to work with incubator and	Connect serum 1 case	Weight measurements in 5

care of the device 1 case		cases
How to work with a	Perform anthropometric	Bathing, covering clothes and
phototherapy device and do 1	measurements 8 cases	keeping the baby warm 2 cases
thing		
Participate in questions and		
answers and study theoretical		
topics		

The main references of the course:

- 1- Nelson Pediatrics Textbook of Mechanical Ventilation for Infants under Parisa Mohagheghi, latest edition
- 2- Other reliable up-to-date sources and nursing books for neonatal care
- 3- Kangaroo Care, Ludington Hu, S, Glant, SK, latest edition
- 4- Kangaroo care, Guide for caring for premature infants for parents, Ministry of Health, Family and Population Health Office, Neonatal Health Department
- 5- WHO and UNICEF Support and promote maternal nutrition in child-friendly hospitals, Ministry of Health, Department of Child Health
- 6- Nichols Francine H. child birth Education. "Practice, Research and Theory, OSA: W.B. saunders (last edition)

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Pediatrics

Prerequisite or concurrent: Neonatology

Number of credits: 2 credits Credit type: Theoretical

General purpose of the course:

- 1. Recognizing the child's condition during health and illness, identifying needs and making appropriate decisions to address them, selecting priorities and implementing them
- 2. Familiarity with child's abnormalities and diseases, the ability to perform examinations and necessary measures in each case.
- 3. Teaching the mother and family about the disease and child care tips
- 4. observing the principles of health and prevention regarding the health of the child and educating the mother and family

Course description: In this course, the topics of recognizing illness and health in children, identifying their needs and making appropriate decisions in different cases are taught.

Outline: (34 hours)

- 1- A review of the child's growth and development, the child's mental health, play and education and his health in general from the perspective of developmental psychology and also from the perspective of Islam
- 2- Preparing a history and performing clinical examinations
- 3- A review of vitamin metabolism and related disorders in children
- 4. Disorders in the metabolism of sugars, fats, proteins and related common diseases
- 5- Allergies and immunity and their common disorders
- 6- Acute rheumatoid arthritis and connective tissue diseases
- 7- Infectious problems and diseases of children (bacterial, viral, fungal, parasitic, ...)
- 8- Common heart diseases and abnormalities
- 9- Common respiratory diseases and abnormalities
- 10- Common diseases and abnormalities of the gastrointestinal tract
- 11- Common blood diseases and disorders
- 12- Common diseases and disorders of endocrine
- 13- Common diseases and abnormalities of the urinary system
- 14- Common diseases and abnormalities related to the body skeleton (bones joints and muscles)
- 15- Emergencies and necessary measures
- 16- Common accidents in children (respiratory obstruction, poisoning, etc.)

The main references of the course:

- 1- Pediatric Emergency (Gregory / Baldwin), latest edition
- 2- Infectious Diseases of Children (Nelson), latest edition
- 3- Nelson Pediatric Textbook, latest edition
- 4- Nelson Pediatric Psychiatry (Richard E. Berman), latest edition
- 5- Other valid up-to-date sources according to the professor

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Pediatrics Practicum

Prerequisite or concurrent: Pediatrics (theoretical)

Number of credits: 1 credit Credit type: Internship

General purpose of the course:

- 1- Familiarity with diseases and emergencies of children
- 2- Communicating with the sick child and his parents
- 3- Familiarity with the general principles of treatment and care of the sick child

Course description: During this internship, students learn about children's illnesses and emergencies, how to communicate with the sick child and his parents and those around him, along with identifying the general principles of treatment and child care.

Outline: (51 hours)

- Caring for a sick child, taking a history Performing clinical examinations
- Familiarity with some diseases of children and the ability to distinguish health from the disease
- Familiarity with emergency procedures in children under the supervision of the relevant teacher in the clinic and pediatric ward
- Caring for the necessary care of the child

During 12 days (4 hours a day and 1.2 hours with 15 minutes of rest) = 15 different cases (there is no problem in doing more than what is set by the student)

Training parents to perform the	Examination of the child's	Examination of the child (head,
correct EEG (in terms of time and	development from the point of view	neck, ears and nose, heart and
sleep deprivation before exercise)	of the nervous system and related	lungs, abdomen, liver and spleen,
	examinations and tests: study of	genitals, and organs, urinary
	mental retardation due to coronary	system, etc.)
	heart disease, etc., seizures in	
	children and its manifestations,	
	academic failure due to brain	
	problems, etc.	
Teaching children and parents	Examination of the child for anemia	Evaluation of VIS symptom in
proper nutrition, exercise and play		children and its differences with
		adults
Education, evaluation and	Examination of the child for growth	Differences in laboratory criteria
recommendation of correct	(growth retardation, abnormal	such as Hb, HCt, FBS, Ca, Mg, P,
vaccination in children in	growth spurt)	urinary alkaline phosphatase and
different situations and conditions		cratinin in children and adults
Observation, examination,	ECG training from children (ECG)	
diagnosis of symptoms and		
manifestations, administration	Participate in questions and	
and follow-up of common	answers and study theoretical topics	

infectious and non-infectious	
diseases in children, including at	
least 15 cases of various diseases	

The main references of the course:

- 1- Pediatric Emergency (Gregory / Baldwin), latest edition
- 2- Infectious diseases of children (Nelson), latest edition
- 3- Nelson Pediatric Textbook, latest edition
- 4- Nelson Pediatric Psychiatry (Richard E. Berman), latest edition
- 5- And other valid up-to-date sources according to the professor

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Semiology and Physical Examinations

Prerequisite or concurrent: Anatomy 1 and 2 - Physiology 1 and 2 - Immunology - Theoretical

Microbiology - Parasitology and Mycology

Number of credits: 1 credit Credit type: Theoretical

General Purpose of the course: Full knowledge of the principles of clinical examination and taking a history and how to perform physical examinations

Course description: In this course, students are introduced to the principles of clinical examination of patients, taking a history and how to perform physical examinations.

Outline: (17 hours):

- Familiarity with the methods of diagnosing diseases as well as how to treat the patient and how to start the interview
- Patient complaints
- Description of the current disease: The order of complaints from the beginning to the time of taking the history, including the course of the relevant symptom, quality and quantity, diagnostic and treatment work that has been done so far.
- Patient records
- General medical diseases and hospitalization records
- Past drug use, drug allergies (and other allergies)
- Surgery, accidents
- Personal and social records
- Family history
- Review of systems
- Preparing the patient for the examination and the necessary equipment and how to perform physical examinations
- Description of the general condition of the patient (level of consciousness, the patient's condition at the time of examination, cooperation, height, weight and nutrition, etc.
- -Vital Signs
- Examination
- Skin and appendages
- Head, neck, ears, throat and nose
- -Eye
- Chest and breasts
- Retina
- -Cardiovascular
- Abdomen
- Urinary and genital organs
- Organs and spine
- Endocrine glands

- -Neurology and psychiatry
- How to write a patient file, a summary of the history and clinical and paraclinical findings, patient list (Problem list) and solutions (Plan), differential diagnoses and writing a daily report

The main references of the course:

Barbara Bates Semiotics and Other Up-to-date sources (Latest Edition)

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Semiology and Physical Examinations Practicum

Prerequisite or concurrent: Semiology and Physical Examinations (Theoretical)

Number of credits: 1 credit Credit type: Practicum

General purpose of the course:

Taking a history and performing physical examinations of the patient and recording and reporting the results of the examination.

Course description: By passing this internship credit, students will learn how to take a history and perform physical examinations of the patient and how to record and report the results of the examination.

Outline: (51 hours)

- Preparing a history of the patient
- Complete examination of various organs and systems of the body
- Distinguish normal from abnormal cases
- Record the results of the findings

In clinics and inpatient wards, preferably midwifery and gynecology, including taking a history and performing physical examinations and diagnosing abnormalities under the supervision of a midwifery instructor and an internal medicine specialist as a clinical professor.

During 12 days (4 hours a day and 1.2 hours with 15 minutes of rest) the following should be done for at least 10 patients.

(There is no problem in doing more than what is set by the student)

Investigation of lymph nodes,	How to deal with the patien
peripheral and central pulses, JVF	and start the interview
jugular veins	
Head and neck examination	Get a complete history of the
including:	disease References:
Skull, face (in terms of shape,	General characteristics, mai
symmetrical fracture, depression,	complaint, recent discomfor
protrusion), trachea, thyroid	description, medical record
	personal and social records.
	family records and a review
	different body systems (at
	least for 10 different patient
	peripheral and central pulses, JVP jugular veins Head and neck examination including: Skull, face (in terms of shape, symmetrical fracture, depression, protrusion), trachea, thyroid

Abdominal examination:	Ear examination includes:	Description of the general
Observe: Abdominal skin, umbilicus,	Outer ear, eardrum, inner ear,	condition of the patient
abdomen shape,	whisper test	including: level of
Enlarged limb symmetry, peristalsis,	winsper test	consciousness, patient's
Aortic pulse		condition at the time of
Hearing: BS Vascular sounds		examination, degree of pati
Percussion: normal sounds (tympanum		cooperation
resonance) and abnormal sounds		cooperation
Touch: superficial touch, deep touch,		
liver, spleen, kidney, tenderness, rebou		
tenderness, CVA tenderness, pain		
examination, ascites evaluation,		
appendicitis evaluation		
Examination of limbs and spine includ	Throat and nose evamination	Height, weight and body m
Examination of the joints of the limbs		index (BMI)
including: observation of color and	Throat, external nose, external	muca (Divii)
swelling, touch of swelling and heat,	cavity, sinuses	
restriction of movement, examination	3 /	
the spine: observation of shape, change		
curvature and protrusion, touch of		
sensitivity, restriction of movement		
Psychological examination: mental sta	tEve evamination including:	Examination of vital signs
level of consciousness, cranial nerves,		L'Admination of vital signs
motor and sensory nerves, reflexes	eye, vision, eye movements	
Prepare the final report of the history a	<u> </u>	Evamination of the skin and
examinations	_	appendages including:
	Observation: Speed rhythm dent	Color humidity hast and
Participate in questions and answers an	and respiratory effort, chest shape	ckin color
study theoretical topics determined by	and movement	Consistency, shape and ang
instructor	Touch: Determination of sensitive	, ,
		loss
	dilation, Evaluation of tactile	1033
	vibration	
	Accuracy: Evaluation of different	
	parts of the lung	
	Hearing: Recognition of normal la	
	sounds and their location (vesicul	
	bronchocular, bronchial and	
	tracheal), abnormal lung sounds,	
	crackle, wheezing, ronca, friction	
	Rob) and transferable speech sour	
	ixoo) and transferable speech soul	

The main references of the course:

Barbara Bates Semiotics and Other Credible Up-to-date sources (Latest Edition)

- 1- Active presence in the class
- 2- Completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Physiopathology and Medical Diseases (1)

Prerequisite or Concurrent: All Basic Science Courses - Semiology and Physical examinations

(Theoretical)

Number of credits: 3 credits Credit type: Theoretical

General purpose of the course:

- 1- Recognizing the basic needs and diagnosing human conditions during health and illness, especially pregnant women
- 2- Applying scientific findings and providing services and education to patients and pregnant and vulnerable women, providing medical assistance and correct referral in necessary cases.
- 3- Recognizing the responsibilities and limitations of the profession and adhering to the observance of scientific, ethical and legal standards when providing services in order to protect the lives of mothers and children and ensure their health.

Course description: This course helps students to get familiar with major cardiovascular, respiratory, urinary and gastrointestinal diseases and their causes, how to diagnose, cause and treat them, and use this knowledge to identify pregnancies associated with such diseases.

Outline: (51 hours)

A. Cardiovascular and circulatory system

General purpose of the course:

- 1- Full acquaintance with the physiopathology of heart diseases and circulatory system
- 2- Familiarity with the manifestations and clinical signs of cardiovascular diseases based on physiopathology and examination of heart patients
- 3- Familiarity with the methods of diagnosis and management of various heart diseases and their process during pregnancy and childbirth and after childbirth

Outline: (18 hours):

- 1- Briefly electrical activities of the heart, blood circulation, nerves and regulation of myocardial metabolism
- 2- Manifestations and clinical signs of cardiovascular diseases based on physiopathology and examination of heart patients (pain, shortness of breath, palpitations, edema, syncope, cyanosis, etc.), examination of the general condition of the patient, examination of arteries and blood pressure measurement, Cardiac examination, observation, touch and examination of anterior heartbeats, hearing, examination of natural sounds based on physiology and physiopathology, types of murmurs and their mechanism
- 3- Principles of electrophysiology of normal heart, basics of generation and propagation of electric waves, arrhythmia and conduction disorders, blocks, hypertrophies and pacemakers
 - Types of heart disease with emphasis on cause, physiopathology, symptoms, differential diagnosis, treatment, prognosis and prevention in non-pregnancy and pregnancy including:
- 4- Rheumatic fever

- 5- Valvular heart disease (stenosis, insufficiency, prolapse)
- 6- Congenital heart diseases, especially its common types
- 7- Increased arterial blood pressure
- 8- Reduction of arterial blood pressure (syncope, hypovolemic and normo-volemic shock)
- 9- Cardiac muscle diseases: myocarditis and cardiomyopathies
- 10- Heart failure: its types and emergencies
- 11- Infectious endocarditis and pericardial diseases
- 12-Coronary artery diseases (ischemia, angina pectoris, infarction)
- 13- Increased blood pressure in the lungs and pulmonary heart
- 14- Cardiovascular changes, volume and blood pressure in pregnancy -Pregnancy after heart surgeries -The use of anticoagulants and other drugs in pregnancy -Care and treatment of pregnant mothers with heart disease in pregnancy and childbirth and after childbirth
- 15-Resuscitation of the heart and lung
- 16-CCU

The main references of the course:

Basics of Cecil Medicine - Harrison - Clinical and Physical Examinations - Guyton - Williams Physiology (latest edition)

B- Physiopathology and internal diseases of the respiratory system

General purpose of the course:

Full knowledge of anatomy, physiology and physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention of respiratory diseases in non-pregnancy and pregnancy

Outline: (10 hours)

- 1- Anatomy, physiology and physiopathology, semiotics and mechanism of sounds
- 2- Infectious diseases (pneumonia, bronchiectasis, tuberculosis, abscess)
- 3- Obstructive diseases (COPD, asthma)
- 4- Malignant diseases
- 5-Pulmonary embolism and respiratory emergencies
- 6- ICV cases and ventilators and diagnostic parts of lung diseases ICU
- 7- ARDS and acute and chronic lung failure
- 8- A brief list of diseases of pleura, mediastinum, diaphragm

The main references of the course:

Cecil Medicine, Harrison Medicine, Williams (latest edition)

C- Physiopathology and internal diseases of the urinary system

General purpose of the course:

Full knowledge of anatomy, physiology, Physiopathology, causes, diagnosis, treatment, prognosis and prevention of urinary tract diseases in non-pregnancy and pregnancy

Outline: (12 hours)

1- Anatomy, physiology, renal blood flow, filtration and its regulating factors, effect of vasoconstrictors, transport of sodium, potassium, water and hydrogen, etc., renin and angiotensin system, regulation of calcium, phosphorus and vitamin

- 2- Physiopathology of urinary tract and symptoms of kidney diseases including hematuria, proteinuria, dysuria, polyuria, oliguria, edema, etc.
- 3- Laboratory diagnostic methods in kidney diseases and interpretation of tests, especially urinalysis
- 4- Acute and chronic glomerulonephritis
- 5- Acute and chronic renal failure
- 6- Kidney and urinary tract infections and interstitial nephritis
- 7- Nephrotic syndrome
- 8- Kidney and pregnancy, kidney and drugs
- 9- Water, electrolytes and acid and base disorders
- 10- Primary hypertension and medications
- 11- Summary of kidney and collagen diseases, systemic diseases and congenital diseases and tumors

The main references of the course:

Sicilian Medicine, Harrison Medicine, Williams Pregnancy and Obstetrics (Latest Edition)

D- Physiopathology and internal diseases of the gastrointestinal tract

General purpose of the course:

Student's familiarity with anatomy, physiology, physiopathology, causes, diagnosis, treatment, prognosis and prevention of gastrointestinal diseases in non-pregnancy and pregnancy

Outline: (11 hours)

- 1- Esophagus: Physiology, mechanism of swallowing and sphincters, physiopathology, symptoms of esophagus (dysphagia, pain, regurgitation and odynophagia), esophagitis with related cases in pregnancy
- 2- Stomach and duodenum: physiology (mechanism of gastric emptying, mechanism of gastric secretion), physiopathology, diagnosis and treatment of indigestion (dyspepsia), gastric and duodenal ulcers, gastritis, cancer, ulcers and related diseases Pregnancy
- 3- Small intestine: physiology (bowel movements, mechanism of water and electrolyte absorption, proteins, fats, carbohydrates, vitamins, iron, phosphorus and calcium), physiopathology, diagnosis and treatment of malabsorption syndrome, intestinal parasites and intestinal parasites Important small intestine such as tuberculosis, ulcerative colitis, microbial growth syndrome and protein loss, and briefly tumors

Colon: Physiology (mechanism of excretion and movements of the large intestine, absorption of water and salt and rectal sphincter), physiopathology of diarrhea and types of diarrhea, ulcerative colitis, infectious colitis, neural colitis, tuberculosis and a brief diverticulum

- 5- Liver: Physiology (role of liver in carbohydrate metabolism, proteins, fats and mechanism and stages of bile secretion), physiopathology, diagnosis and treatment of common diseases such as gallstones, jaundice, jaundice, cirrhosis, hepatitis and hepatitis And tumor
- 6- Pancreas: Physiology of secretion, physiopathology, diagnosis and treatment of acute and chronic pancreatitis

The main references of the course: Harrison Medicine - Cecil Medicine - Pregnancy and Obstetrics Williams (latest edition)

Student evaluation method in different areas:

Active attendance at class and participation in the final exam

Course Name: Physiopathology and Medical Diseases (2)

Prerequisite or concurrent: Physiopathology and Medical Diseases (1)

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

- 1- Recognition of basic needs and diagnosis of human conditions during health and disease, especially in pregnant women
- 2- Applying scientific findings in providing services and education to patients and pregnant and vulnerable women and providing medical assistance and correct referral in necessary cases
- 3- Recognizing the responsibilities and limitations of the profession and adhering to the observance of scientific, ethical and legal standards when providing services in order to protect the lives of mothers and children and ensure their health.

Course description: This course helps students to become familiar with major diseases of the blood, glands, nerves and connective tissue and their causes, how to diagnose and treat them, and apply this knowledge in connection with pregnancies associated with such diseases.

Outline: (34 hours):

A- Physiopathology and internal blood diseases

General purpose of the course:

Student's familiarity with physiology, physiopathology, causes, diagnosis, treatment, prognosis and prevention of various blood diseases in non-pregnancy and pregnancy

Outline: (8 hours):

- 1- Physiopathology and definition of anemia, erythrocyte indices, anemia classification, compensatory mechanisms, signs and symptoms of anemia
- 2- Iron metabolism and iron deficiency anemia
- 3- Hemolytic anemia (intravascular and extravascular)
- 4- Megaloblastic anemia, especially folate deficiency
- 5 Physiopathology of white blood cells (leukopenia, leukocytosis)
- 6- Physiology and physiopathology of homeostasis
- 7- Types of coagulation disorders
- 8- Blood products, their application and side effects
- 9- Thalassemia, principles, diagnosis and prevention
- 10- How to deal with and how to manage a patient with acute bleeding and shock
- 11- Leukemias and a brief summary of lymphomas

Main references of the course: Cecil Medicine - Harrison Medicine - Williams

B. Physiopathology and endocrine diseases

General purpose of the course:

Familiarity with physiology students, physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention of various endocrine diseases in non-pregnancy and pregnancy

Outline: (12 hours):

1- General endocrinology: definitions of hormone and endocrinology, feedback system, receptors, hormonal deficiencies, hormone increase, Hormone resistance

Hypothalamic and pituitary diseases: Physiology and relationship between hypothalamus and pituitary gland, releasing hormones, stimulating hormones, increase and decrease of GH, pituitary adenomas (with and without prophylaxis), hepatic

- 3- Thyroid diseases: thyroid physiopathology, thyroid tests, thyroid scan, hypothyroidism (causes, complications, symptoms and treatment), hyperthyroidism (causes, complications, symptoms and treatment), hyperthyroidism, thyroiditis, thyroiditis Ovarian and pregnancy, Thyroid cancers (nodules), Parathyroid disease
- 4- Diabetes: Definition of types of diabetes and physiopathology, clinical symptoms, acute and chronic complications of diabetes, principles of treatment, types of drugs, hypoglycemic and hyperglycemic shock

Genital diseases: sex differentiation, ovarian physiopathology and hormonal disorders (causes and symptoms) including ovarian tumors (causes, signs and treatment), hirsutism, testicular diseases (primary and secondary hypothyroidism, secondary and secondary causes,

6- Adrenal diseases: physiology, importance of adrenal hormones, diagnostic tests, adrenal diseases, primary hypothyroidism, secondary hypothyroidism, Cushing's syndrome, primary aldosterone increase, adrenal tumors, benefits and side effects of corticosteroids

Main course references:

Cecil Medicine, Harrison Medicine, Williams Pregnancy and Maternity (latest edition)

C- Physiopathology and internal diseases of nerves

General purpose of the course:

Familiarity of students with physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention of various neurological diseases in non-pregnancy and pregnancy

Outline: (8 hours):

- 1- Neurological examinations
- 2- Pain physiology, physiopathology, diagnosis and treatment of headaches
- 3- Cerebral circulation and cerebrovascular lesions
- 4- Epilepsy
- 5- Physiopathology of peripheral nerves, diagnosis and treatment of neuropathies
- 6- Physiopathology of spinal cord Diagnosis and treatment of various spinal cord lesions
- 7- Types of myopathy and motive plate diseases
- 8- Multiple sclerosis
- 9- Disorders of the locomotor system
- 10- Vegetable system and body heat disorders
- 11- Brain space lesions (tumor, abscess, hematoma)
- 12- Increased intracranial pressure
- 13- Etiology, physiopathology and mechanism of coma, localization of lesions, diagnosis and treatment of coma

- 14- Dizziness
- 15. Common degenerative diseases such as dementia

Main references of the course: Cecil Medicine, Harrison Medicine, Williams Pregnancy and Obstetrics (Latest Edition)

D- Physiopathology and internal diseases of connective tissue General purpose of the course:

Familiarity of student with physiology, physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention and rehabilitation of connective tissue diseases in non-pregnancy and pregnancy

Outline: (6 hours):

- 1- Basics, preparations and physiology of connective tissue physiology, structure and biomechanics of joints and joint sources and physiopathology of rheumatic diseases
- Immunology and inflammation in joint diseases
- Laboratory diagnostic methods, principles of treatment and rehabilitation
- 2- Joint degenerative diseases, inflammatory diseases of collagenoses, rheumatic fever, rheumatoid arthritis, lupus

Erythematosus, Periodic rheumatism, Myositis vasculitis, Metabolic joint diseases, Joint infections **Main references of the course:** Harrison Medicine, Cecil Medicine, Guyton Physiology (latest edition)

Student evaluation method in different areas:

Active attendance at class and participation in the final exam

Course Name: Physiopathology and Medical Diseases (3)

Prerequisite or concurrent: Physiopathology and Medical Diseases (1) and (2)

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

1- Recognizing the basic needs and diagnosing human conditions during health and illness, especially pregnant women

- 2- Applying scientific findings in providing services and education to patients and pregnant and vulnerable women and providing medical assistance and correct referral in necessary cases
- 3- Recognizing the responsibilities and limitations of the profession and adhering to the observance of scientific, ethical and legal standards when providing services in order to protect the lives of mothers and children and ensure their health.

Course Description: This course helps students to become familiar with major skin, sexually transmitted and infectious diseases and their causes, how to diagnose and treat them, and general principles of care for internal diseases and surgery, and to apply this knowledge in connection with pregnancies associated with such diseases.

Outline: (34 hours):

A- Physiopathology and skin and sex diseases

General Purpose of the course: Student's acquaintance with physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention of various skin and sexually transmitted diseases in non-pregnancy and pregnancy

Outline: (14 hours):

Anatomy, physiology, semiology, physiopathology, symptoms and principles of treatment of skin diseases including:

- 1- Dermatitis
- 2- Urticaria and allergies
- 3- Collagen diseases
- 4- Psoriasis, but plan
- 5- Longitudinal skin diseases
- 6- Parasitic, microbial, fungal and viral diseases of the skin
- 7- Moles, pigmentation, itching
- 8- Skin diseases during pregnancy
- 9- Syphilis, chancroid, LGV, donovanosis
- 10- Other sexually transmitted diseases including herpes, gonorrhea, UTI, warts, groin dandruff, trichomonas, etc.
- 11- Benign and malignant skin tumors
- 12- Common skin diseases in children and infants and congenital cases
- 13- Hair health and strengthening and common hair diseases and the effect of pregnancy and lactation on hair

14- Nutrition and chemical and herbal medicines useful for skin and hair for health, protection and freshness of skin and hair and prevention

Main references of the course: Harrison Medicine, Cecil Medicine and Books on Skin and Hair Diseases (Latest Edition)

B- Physiopathology and infectious diseases

General purpose of the course:

Familiarity of student with physiopathology, causes, symptoms, diagnosis, treatment, prognosis and prevention of various infectious diseases in non-pregnancy and pregnancy

Outline: (12 hours):

- 1- Microbial virulence, pathogenesis of infections (causes, sources, mode of transmission, body defense, disease stages, incubation period, attack, establishment, diagnosis, general principles of treatment, prevention), vaccine and serum (immunoglobulin), patient isolation, Control of carriers, international measures
- 2- Fever: body temperature control, pathogenesis of fever, febrile diseases, diseases with hypothermia, causes of fever, clinical significance, types of fever, exposure to fever, epidemiology of fever, transient drug febrile diseases, chronic and chronic diseases
- 3- The body's defense mechanism in infectious diseases: skin and mucous membranes, body secretions, polymorphonuclears, lymphocytes, macrophages, immunoglobulins, complement system, body reactions in immune and enterogenic reactions, cervical skin tests

Infectious shock: Causes, symptoms, cell damage and hemodynamic changes

5- Gram-positive cocci infections (Streptococcus, Staph)

Gram-negative bacilli infections (meningitis, urethritis) and gram-positive bacilli infections (listeria)

7- Principles of treatment with antibiotics

Gram-negative bacilli infections (cholera, Salmonella, Haemophilus, Shigella, Brucella)

- 9- Spirochetes infections (syphilis), aerobic infections (tetanus, botulism, bacteroids)
- 10. Mycobacterial infections (tuberculosis), leprosy
- 11- Common protozoan and protozoan infections (amoeba, malaria, Toxoplasma, Trichomonas, Giardia, Leishmania)
- 12- Viral infections (flu, herpes, poliomyelitis, smallpox, hepatitis, AIDS, rabies, adenovirus)
- 13. Mycoplasma infections (pneumonia, urethritis), chlamydial infections (ocular, vaginal and urethritis)
- 14- Rickettsia infections, common parasitic (worm) infections

Main references of the course: Harrison Medicine, Williams Pregnancy and Obstetrics, Infectious Diseases in Iran (Latest Edition)

C- Concepts and principles of care for internal patients and surgery General purpose of the course:

Familiarity of students with basic human needs and concepts and principles of inpatient care and surgery in non-pregnancy and pregnancy

Outline: (8 hours):

- 1- Basic human needs during health and illness (physical, mental, social) and different opinions in this field, such as classification of needs according to Maslow et al. Theory, familiarity with care theories, especially midwifery theories.
- 2- Familiarity with the concepts of health and disease, pain (types, causes, care), sleep (stages, deprivation, complications and care), coma and care, death (stages and care)
- 3- The process of caring for patients (diagnosing problems and priorities, planning, implementation and evaluation) The process of caring for a mother who has lost her child due to abortion or death after birth, the process of caring for a mother who suffers from postpartum depression The process of caring for a diabetic pregnant mother, the process of caring for a pregnant woman with preeclampsia, and so on.
- 4- Care before, during and after surgery, the process of caring for a cesarean section mother, the process of caring for a woman who has had a hysterectomy, for example, the process of caring for a woman whose breast or ovary has been removed, etc.
- 5- Care of nosocomial infections (prevention, eradication)

Main Course References: Internal Medicine Books, Principles of Surgery Books, Nursing and Midwifery Care Books (latest edition)

Student evaluation method in different areas:

Active attendance at class and participation in the final exam

Course Name: Physiopathology and Surgical Diseases

Prerequisite or concurrent: Physiopathology and Medical diseases (1), (2) and 3

Number of credits: 2 credits

Credit type: theoretical

General purpose of the course: 1- Familiarity of the student with the generals of surgery, body fluids, acid and base balance

2- Familiarity of student with gastrointestinal, cardiovascular and breast surgeries, urinary system, endocrine system, neurology, eyes, ear, throat, nose and orthopedics

Course description: This course helps students to become familiar with the basics of surgery and water and electrolyte and the types of diseases of different devices that require surgery and their causes, diagnosis and treatment, and to apply this knowledge in connection with pregnancies associated with such diseases.

Outline: (34 hours):

A. General surgery, water and electrolytes

General Purpose of the course: Familiarity of students with general surgery, body fluids, acid-base balance, electrolytes, fluid therapy, coping with shock in non-pregnancy and pregnancy

Outline: (6 hours):

- 1- Water and electrolytes, especially in operated patients, the natural composition of body fluids and electrolytes, water and electrolytes needed by operated patients, factors that cause deficiency and change in the amount needed
- 2 Abnormal loss of body fluids and fluid shifts and deficiency and increase in fluid volume and electrolytes and its effects on body organs such as heart, arteries, kidneys, etc.
- 3- Acid and base balance (types of acidosis and alkalosis)
- 4- The importance of nutrition in patients with surgery and intravenous nutrition, nutrition and fluid therapy in severe vomiting of pregnancy
- 5- Surgical homeostasis and bleeding, examination of the patient for bleeding and anticoagulants
- 6- Blood transfusion and its problems
- 7- Hemorrhagic shock and gram-negative and infectious shock
- 8- General surgical infections

Main references of the course: Principles of Schwarz thesis surgery and similar books (latest edition)

B- Gastrointestinal surgeries

General Purpose of the course: Familiarity of students with important gastrointestinal surgeries, especially in pregnancy

Outline: (4 hours):

Abdominal (diagnosis and treatment) especially appendicitis - Trauma and intra-abdominal bleeding

- Surgery of esophagus, stomach and intestines, intestines, liver and gallbladder - Intestinal obstruction in non-pregnancy and pregnancy

Main Course References: Surgery Books (Last Edition)

C- Cardiovascular and breast surgeries:

General purpose of the course:

Familiarity of students with important heart, vascular and breast surgeries in non-pregnancy and pregnancy

Outline: (2 hours):

- 1- Large cardiovascular surgeries, angiography, lung surgery
- 2- Breast surgeries (partial, complete removal, prosthesis)
- 3- Aneurysm surgeries, varicose veins, emboli

The main references of the course: surgery books

D. Urinary tract surgeries

General Purpose of the course: Familiarity of students with important urinary tract surgeries in non-pregnancy and pregnancy

Outline: (2 hours):

Includes urinary tract stones, abnormalities, traumas, especially in gynecological surgeries, abnormalities, tumors, and effusions.

Main Course References: Surgery Books (Last Edition)

E. Endocrine surgeries

General purpose of the course:

Familiarity of students with important gland surgeries in non-pregnancy and pregnancy

Outline: (2 hours):

Thyroid, adrenal and parathyroid surgeries

Main Course References: Surgery Books (Last Edition)

And - Neurosurgery

General Purpose of the course: Familiarity of students with important neurosurgeries

Outline: (2 hours):

Includes concussions and cerebral hemorrhages, vertebral and disc injuries, spinal cord injuries and bleeding, intravascular lesions, congenital diseases and tumors, especially in the pituitary gland.

Main Course References: Surgery Books (Last Edition)

G. Orthopedics

General Purpose of the course: Student's acquaintance with physiology, physiopathology, symptoms, causes, diagnosis, rehabilitation treatment of orthopedic diseases in non-pregnancy and pregnancy and infants and children

Outline: Orthopedics (6 hours):

- 1- Examination of joints and bones and orthopedic examination of the patient, orthopedic examination of the infant, diagnostic tests, photography and treatment
- 2- Definition of fracture, division, symptoms, definition of dislocation, emergencies and treatment
- 3- Mechanism of healing bones, tendons and ligaments, non-healing and late healing

- 4- Open fracture with wound, complications of fractures (embolism, gangrene, tetanus, osteomyelitis, ischemia, Leckman)
- 5- Important bone fractures (symptoms and treatment)
- 6- Important dislocations (arm, shoulder, vertebra, hip joint)
- 7- Rupture and dislocation of ligaments (knee, foot and 2)
- 8- Bone and joint infections
- 9- Congenital anomalies: hip dislocation, clubfoot, metatarsus varus, hallus varus, syndactyly, polydactyly, macrodactyly, springling, congenital patellar dislocation
- 10 Bone softness in children and osteoporosis, especially in menopause and old age
- 11- Myositis, poliomyelitis, cerebral palsy

Carpal tunnel syndrome and similar cases, aseptic necrosis

- 13- Rheumatoid diseases, joint relaxation in pregnancy
- 14- Tumors, amputation and artificial organs
- 15- Rehabilitation

Main course references: Surgery and orthopedic books (latest edition)

H- Ear and nose

General Purpose of the course: Student's acquaintance with anatomy, physiology, physiopathology, causes, symptoms, diagnosis and treatment of ENT diseases

Outline: (6 hours):

- 1- Anatomy and physiology of the ear and audiometry
- 2 Common and common ear diseases: external ear and tympanic membrane, otitis media and its complications, inner ear and deafness, tinnitus, dizziness, rupture of tympanic membrane, speech injuries, related neurological diseases
- 3- Anatomy and physiology of nose, throat and larynx and their important diseases including sinusitis, polyps, tonsils, third tonsils, vocal cords, etc.
- 4- Anatomy and physiology of bronchospasm and its important diseases
- 5- Important ear, nose and throat problems in pregnancy and in the baby such as anesthesia, etc.
- 6- The effects of drug use on congenital ear problems in the fetus

Main references of the course: Guyton Internal Medicine, Surgery, and Physiology Books (Latest Edition)

I - eyes

General Purpose of the course: Student's acquaintance with anatomy, physiology, physiopathology, causes, symptoms, diagnosis and treatment of eye diseases

Outline: (4 hours):

- 1- Anatomy and physiology of the eye (eyeball, eyelids, lacrimal ducts, nerves, eyeball muscles), general eye examination, ophthalmic drugs, determination of eye vision
- 2- Eye diseases, conjunctiva, lacrimal sac and duct, corneal diseases, eyeballs and optic nerve, retinitis especially in pregnancy and eye infections especially in infant
- 3- Eye lens diseases and refractive errors

Strabismus, glaucoma and cataracts

5 - Ophthalmic emergencies: the entry of substances, rupture toxins, vascular thrombosis, retinal bleeding, especially in hypertension, especially eclampsia of pregnancy

- 6- Complications of general eye diseases (diabetes, hypertension and infection)
- 7- Headache and eyes

Main references of the course: Guyton Internal Medicine, Surgery, and Physiology Books (Latest Edition)

Student evaluation method in different areas: Active attendance at class and participation in the final exam

Code: 44

Course Name: Medical & Surgical Diseases Practicum

Prerequisite or concurrent: Semiology and physical examinations and its practicum -

Physiopathology and Medical diseases 1, 2 and 3 - Physiopathology and surgical diseases

Number of credits: 1 credit Credit type: Internship

General purpose of the course:

- Recognition of basic needs and diagnosis of human conditions during health and disease, especially pregnant women.

- Familiarity with internal diseases and surgery and emergencies (mentioning the effects of pregnancy and childbirth on the disease and the disease on pregnancy and childbirth)

Ability to identify the patient's problems and needs and the ability to make appropriate decisions to take the necessary measures from him

Recognize professional responsibilities and limitations, adhere to the observance of ethical principles and Islamic standards when providing services in order to protect the lives of mothers and children and ensure their health.

Course description: During this internship, students will get familiar with how to diagnose, manage, treat and care for pregnant women with internal diseases and surgery.

Outline: (51 hours):

- 1- Taking the history and performing physical examinations of patients
- 2- Familiarity with important and common diseases of heart, lung, blood, glands ...
- 3- Diagnosis of internal emergencies and surgery in pregnant women
- 4- Acquiring the ability to perform necessary measures and care for patients

During 12 days (4 hours a day and 1.2 hours with 15 minutes of rest) at least about 25 different patients Note: (Doing more than what is determined by the student is not a problem)

Common glandular diseases	Diagnosis and observation of urine	Prepare an accurate history
(such as diabetes,	and treatment of internal	of the patient
hypothyroidism and	emergencies and surgery	
hyperthyroidism, Sheehan		
syndrome, Cushing, etc.)		
Neurological diseases	Diagnosis of common diseases of	Perform a complete
(headaches, epilepsy, CVA)	various organs of the body that	physical examination of the
	follows according to history and	patient
Common urinary tract diseases	physical examination, request,	Diagnosis of abnormalities
(including renal and urinary tract	interpretation of tests and	in history and examination
infections, acute and chronic	paraclinics, as well as observation	
renal failure, glomerulonephritis	and evaluation of their treatment,	
and urinary stones, etc.)	including the necessary care,	
Common infectious diseases	providing the necessary training,	Request the necessary tests
such as rubella, hepatitis, herpes,	recognizing relevant drugs and	as needed

	1	
etc.	relying on Their importance in	
	conceiving during 12 days includes	
	20 internal cases (2-3 cases from	
	each device) and 5 surgical cases	
	including:	
Gastrointestinal (such as	Cardiac (mitral stenosis, mitral	Analysis of abnormalities of
wounds, infections, diarrhea,	prolapse, increase and decrease of	important paraclinical tests
constipation, bleeding,	arterial blood pressure, coronary	
indigestion, etc.)	artery disease)	
Skin diseases and allergies	Vascular (heart failure, arterial	Analysis and recognition of
(hives, itching, fungus, viruses	embolism, thrombophlebitis,	changes in important
and parasites, pigmentation, etc.)	varicose veins, etc.)	paraclinical tests during
		pregnancy and its
		interpretation
Motor and collagen (carpal	Respiratory (pneumonia,	Quickly obtain the required
tunnel syndrome, major bone	tuberculosis, asthma, pulmonary	information from the
fractures, joint relaxations,	embolism, restrictive and obstructive	patient's file
rheumatic fever, rheumatoid	diseases, etc.)	Provide a correct and
arthritis, lupus, bone and joint		accurate report of the
infections)		patient's condition to the
		instructor
Common surgeries (including	Common blood diseases (including	Participate in questions and
appendicitis, heart surgery,	iron deficiency, thalassemia,	answers and study
stones, varicose veins and	bleeding diseases, etc.	theoretical topics selected
hemorrhoids, thyroid, breast, etc.		by the instructor
		•

Main course references: Like the theoretical courses of physiopathology of internal diseases 1, 2 and 3 and surgical diseases

Student evaluation method in different areas:

- 1. Active presence in the internship
- 2. Obtaining a history and performing physical examinations and how to use tests and paraclinics in achieving the required diagnosis, care and treatment measures.
- 3. How to do the assigned tasks
- 4. Participate in the final exam

Course Name: Communication, Health Education and Counseling in Maternal, Child and Reproductive Health (Health 3)

Prerequisite or concurrent: Principles of Public Health Services (Health 1) - General, Woman and Family Psychology - Pregnancy and Normal Delivery (1) - Neonatology - Pediatric - Principles of Maternal and Child Nutrition

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

- Principles of communication with the client
- Health education process
- Familiarity with the counseling process
- Application of the above in reproductive and maternal health of the child

Course description: During this course, students are introduced to the principles of communication, health education and counseling and learn how to use them in reproductive health and mother and child.

Outline: (17 hours):

Communication, definition, importance, elements and effective factors in it, principles of communication, effective communication, role of mass media, types of communication (verbal and non-verbal communication, interpersonal communication and its skill model), role and importance of communication in midwifery

Objectives, philosophy, principles and principles of health education, group dynamics

The process of health education includes establishing the right relationship with the client, collecting information, identifying needs and priorities, selecting the appropriate training method, training the client and evaluating the effect of the training with emphasis on evaluating the client's performance and changing health behavior.

Prepare a health education program based on the process to solve a health problem related to women (implementation of the program individually or in groups by playing a role in the classroom or during the internship, at home or in health centers).

Provide a health education program for family, school or community

Definition of counseling, principles and goals of counseling, counseling techniques and skills, role of midwife in counseling with mother, child and family, attention to the rights of clients and patients and religious issues in counseling, correction of rumors and misconceptions

Evaluate a counseling session, the role of the midwife as a counselor in cases such as puberty, before and after marriage, family planning, pre-pregnancy, pregnancy and classes related to childbirth, childbirth, postpartum and lactation, menopause and old age

Main course references:

- 1- Social Prevention Medical Textbook, Park, John Edret. Last Edition.
- 2- Methods and techniques of counseling, Shafi Abadi, Abdullah. The latest edition.

- 3- Principles of Interpersonal Skills, Ministry of Health and Medical Education,
- 4- Health Education, Ramachandran, L. The latest edition
- 5- Public Health, Razavi et al. (Latest edition)
- 6- Dr. Mohseni's communication book, latest edition
- 7- Interpersonal Communication Skills in Reproductive Health and Family Planning United Nations Population Fund Support Group, IEC Center Group Translation, Ministry of Health Population Information and Training Center, Population and Family Planning
- 8- Basic concepts and specialized topics in counseling, Goldard, David, translated by Hosseinian, Simin latest edition
- 9- Communication for Health, Hubble, John in collaboration with WHO Representative Office
- 10- Changing the behaviors of children and adolescents, Cromboltz, John Dee, Cromboltz, Helen, latest edition
- 11- Other reliable up-to-date sources

Student evaluation method in different areas:

- 1- Active presence in the class
- 2- completing and submitting assignments
- 3- Participation in the midterm exam
- 4- Participation in the final exams

Course Name: Maternal, Child and Reproductive Health (Health 4)

Prerequisite or concurrent: Health 3

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

Promoting the necessary knowledge and attitude in the field of health before marriage, during pregnancy and after delivery.

Acquiring the necessary knowledge and attitude in the field of maternal and child health to ensure the physical, mental and social health of mother and child

Identify needs and priorities, plan based on health education process, prepare, implement and follow up health education programs for mother, family, community

Acquiring knowledge and attitudes about the health of vulnerable groups

Acquiring knowledge and attitudes about various methods of family planning as well as the importance of population and demographics

Course Description: During this course, students will be introduced to reproductive health services in the field of premarital, marital, pregnancy and postpartum health and maternal and child health, family planning and vulnerable groups.

Outline: (34 hours):

1- Introduction (2 hours)

- Definition of reproductive health, mother and child and family planning, philosophy, goals, principles and their scope
- -Familiarity with health and hygiene teams and family physician and the role and duties of midwives in the family physician team and other parts of the health system
- Review of PHC and MCH services and the role of midwives in it Reproductive and maternal and child health services and family planning in Iran and the world
- Sustainable development of countries and the role of healthy manpower The importance of social determinants of health (SDHs) The importance of population and population indicators and their definition Health indicators and their importance and definition
- Importance of population and demographic indicators and their definition of Health indicators and their importance and definition
- MDG goals of the third millennium related to reproductive health and the situation in Iran in achieving these goals

2- Maternal health (6 hours)

- -Puberty health (adaptation to physical, psychological and social changes, nutrition, exercise, menstrual health)
- -Necessary health and medical examinations and education and counseling before marriage and marriage, a review of counseling and care before pregnancy (based on existing national guidelines)

- A review on the health and care of pregnant women based on the social health and family health of pregnant women and programs and classes for childbirth
- Review of women's health in the postpartum period and breastfeeding and postpartum care for up to 2 months according to the protocol of the Ministry of Health
- Women's sexual health and relationships and marital satisfaction
- Women's social health: the problem of economic security, hard work, environmental pollution, domestic violence, work laws for pregnant and lactating women, non-pregnant and head of household and homeless
- Family and community support for pregnant and lactating women and relevant national and international laws and support organizations

3- Infant and child health (10 hours)

The importance and role of infant and child physical health Importance and role of breastfeeding include:- breastfeeding and bounding and attachment during first hour of the life-The correct breastfeeding technique and the side effects of not following those techniques- Factors affecting breastfeeding decline-Ways to prevent and treat breastfeeding problems-Methods of storing, freezing and thawing breast milk-The role of breastfeeding counseling and training - Strategies of child-friendly hospitals - Empowerment of parents in infant care - The importance of emotional communication between child and parents, especially in infancy (first 28 days)

- The role and importance of kangaroo care in the care of infants, especially premature infants (alternative to incubator)
- -Different stages of growth and development from birth to adolescence and developmental psychology
- Monitoring the psychological, social and cognitive development of the child
- Drawing and interpreting growth curves, diagnosing growth and development disorders and taking necessary actions
- Periodic examinations of the child and attention from the mouth and teeth
- Contributing factors, ways to prevent and care for common problems in children such as teething, bloating, abdominal pain, enuresis, nail biting, vomiting, constipation and lack of appetite, diarrhea and acute respiratory infections in children
- A review of infant and child nutrition at different ages up to adolescence
- Public immunization program for mothers and children based on the instructions of the Ministry of Health, vaccine side effects and training of clients
- -Integrated care of a healthy child (especially non-physician) including: evaluation and classification of the child, consultation with the mother, follow-up and growth charts
- Integrated pediatric care (for non-physicians) including: assessment and classification of the child, treatment of the child (before referral and based on chart classification), follow-up of the child, consultation with the mother, nutrition, time of referral infant (under 2 months): Evaluation and classification, treatment and consultation with the mother and follow-up
- Infant and child mental health, communication with other family members, the importance of caressing and training, punishment, reward, daily life plan of the child, games, etc. and their effect on the child's mental health

- Child social health (relationships with family members and playmates, kindergarten and preschool, play and its effect on the child's physical, mental and social health, acceptance of the child as an individual and appropriate behavior, child sexual and physical abuse
- Pre-school and school age health, school health
- Health of children with physical and mental disabilities, rehabilitation and its types
- Familiarity with the instructions of the Ministry of Health regarding child care and ongoing screening projects after birth and infancy and childhood

4- Health of vulnerable groups (6 hours)

- Definition and classification of vulnerable groups with emphasis on screening
- Vulnerable social groups including street women (sex workers) female prisoners addicts fugitives residents in rehabilitation centers
- Vulnerable health groups including mothers, children, the elderly, the disabled and the retarted and referral and follow-up in cases of problems
- Definition of old age and its stages, elderly health including lifestyle, mental health
- Common diseases in old age, supplement therapy
- Support for the elderly, adaptation to the conditions of old age
- Introduction of the Convention on the Rights of the Child Reproductive rights

5- Population and family planning (10 hours)

Types of family planning methods and new methods of prevention (application, mechanism of action, complications, follow-up, etc.), education and counseling of family planning and evaluation of Couples-Years of Protection (CYP) family planning programs and other indicators of evaluation and planning of family planning and ceep index

Main course references:

- 1- Resources related to pregnancy and childbirth courses and gynecological diseases, latest edition
- 2- Resources related to health courses 1, 2 and 3 and principles of nutrition and nutrition therapy for mothers and children, latest edition
- 3- Social Prevention Medical Textbook, Park, John Edret. The latest edition.
- 4- Integrated care of a healthy child (especially non-physician) Ministry of Health, Deputy of Health, Family Health Office, Children Department
- 5- Integrated care of pediatric diseases (especially non-physicians), Ministry of Health, Deputy of Health, Family Health Office, Children's Office 2007
- 6- Guide to providing family planning services (first level and second level) in two volumes Ministry of Health, Deputy Minister of Health, Family Health Office and Population
- 7- Description of services of health team and family doctor, Ministry of Health, Health Programs Management Office, Health Programs Review Committee, Network Development Center
- 8- Investigation of Unintended Complications of Immunization (AEFI Surveillance), World Health Organization, Translation: Ministry of Health, Deputy of Health, Center for Disease Management
- 9- Integrated Maternal Health Care (Out-of-Hospital Services Guide) Ministry of Health, Family and Population Health Office, Maternal Health Department

- 10- National Guidelines for Performing Natural Childbirth and Providing Non-Drug Methods for Reducing Labor Pain, Ministry of Health, Family and Population Health Office, Maternal Health Department
- 11- National Guide to Providing Midwifery and Maternity Services, Mother-Friendly Hospitals Ministry of Health, Family and Population Health Office, Maternal Health Department
- 12- Kangaroo Care, Luddington Ho, S, Glant, SK, latest edition
- 13- Hug care (kangaroo), care guide for premature infants for parents, Ministry of Health, Family and Population Health Office, Neonatal Health Department
- 14- WHO and UNICEF (last edition), Support and promotion of maternal nutrition in child-friendly hospitals, Ministry of Health, Department of Child Health
- 15- National system of maternal death care, Ministry of Health, Deputy of Health, Family and Population Health Office, Department of Maternal Health
- 16- The latest protocols of the Ministry of Health regarding reproductive health, mother and child and family planning and vulnerable groups, nutrition and mental health.
- 17- The latest health indicators and statistics announced about Iranand other countries of the world by the Ministry of Health and the World Health Organization and other international organizations such as UNICEF, International Children's Fund, International Population Fund, UNESCO, etc.
- 18- The latest demographic statistics announced by the Statistics Organization 19- Authentic demography books as well as books related to school health
- 20- Authentic English and Persian books on family planning such as Family Planning Spiroff Student evaluation method in different areas:
- 1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Management and Quality Improvement in Maternal, Child and Reproductive Health

(Health 5)

Prerequisite or concurrent: Health 1 and 3

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

- Familiarity with management in reproductive health services

- Familiarity with quality management and TQM strategy in reproductive health services

Course Description: In this course, students are introduced to quality management and TQM strategy in reproductive health services.

Outline: (17 hours):

- Definition of health services management and the importance of planning
- Planning and implementation of health programs, monitoring, evaluation and follow-up of reproductive health programs, comprehensive quality management and its application in health services
- Definition of quality and continuous quality improvement (CQI) and its importance in reducing costs and increasing the satisfaction of individuals and society, the upgrade system (knowledge, policies, tools and necessary skills)
- Principles of continuous quality improvement, attention to customer needs and expectations, full management commitment, attention to the capabilities and capacities of processes, training of all employees, giving power and authority to employees, use of statistical methods
- Concepts of the system and its components, process and scope
- FOCUS-PDCA model-based process upgrade strategy
- Selecting the process, brainstorming, preparing the workflow diagram, measuring the current performance of the process, diagnosing problems in the way the processes are performed, planning to eliminate the causes and taking appropriate measures to improve
- Convergence diagram and its application in better understanding the problems of a process and choosing the upgrade method
- Writing a program to perform upgrades and report writing
- Community-oriented midwifery Principles of visits

The teaching of this part is done as a training workshop for continuous quality improvement with practical examples of health processes related to mother and child care and family planning. This project will be implemented in groups (for reducing each theoretical hour, 2 practical hours can be held).

Main course references:

- Continuous training of health workers and guidance of the workshop, Abat, FR, Majia, R. Ministry of Health and Medical Education, latest edition.
- Continuous quality improvement workshop, Abolhassan Lamei, Ministry of Health, Treatment and Medical Education. The latest edition

- and other relevant and valid up-to-date sources

Student evaluation method in different areas:

Active attendance in class - How to do homework - Participate in the midterm exam - Participate in the final exam

Course name: Maternal, Child, and Reproductive Health, and Family Planning Practicum

Prerequisite or concurrent: Health 3 and 4

Number of credits: 2 credits Credit type: Internship

General purpose of the course:

1- Gaining the ability to consult with mother and family

- 2- Acquiring the ability to perform health education to mother, family and community (individual or group education)
- 3- Gaining the ability to perform matters related to the examination of mothers
- 4- Acquiring the ability to perform matters related to the examination of children
- 5- Gaining the ability to guide and help mothers, families and vulnerable groups

Course Description: During this internship, students are prepared to acquire skills in mother and family counseling, health education and guidance, and assistance to mothers, families, and vulnerable groups.

Outline: (102 hours)

This internship is held in the field (health centers) under the supervision of a midwifery instructor or teacher.

- 1- Prescribing different methods of family planning and inserting an IUD of at least 5 cases for each student
- 2- Performing some measures about the child, including growth monitoring, nutrition, vaccination and diagnosis of abnormal cases, and appropriate action and follow-up
- 3- Counseling in various cases of marriage, family planning, pregnancy, menopausal issues, preparation for becoming a parent and genetic counseling, etc. by the student
- 4- Implementation of several educational programs by the student for mother, family and community (individually and in groups)
 - 5- Establishing and communicating properly with other colleagues of the health team and working as a team
 - 24 days (4 hours a day and 1.2 hours with 15 minutes of rest) (there is no problem in doing more than what is set by the student)

Diagnosis, perform care program	Prescribing injections of 12-18	Family planning:
and education in 1 case of	vaccines for children from each	
diarrhea, 1 case of respiratory	type of vaccine 2 -3 cases	
disease, 1 case of thrush, 1 case		
of hypoglycemia and 1 case of		
fever		
Pregnant mother care	Prescribing tetanus vaccine for	Creating a file for new clients 4
department:	pregnant women 2 cases	cases
Creating a file for new clients 2	Vaccination scheduling based on	Physical examination of clients
cases	intervals and type of vaccine for	
	a child who has started his or her	

		T
	vaccination schedule correctly	
	and on time 2 cases	
Measurement of height, weight	Vaccination scheduling based on	Cervical pap smear 10-5 cases
and blood pressure 5 cases	intervals and type of vaccine for	
	a child who has not started his or	
	her vaccination schedule	
	correctly and on time 2 cases	
Physical examinations and	Identify contraindications to	Read the pap smear answer and
Leopold manover 5 cases	vaccination	interpret it 2 cases
Fetal heart rate control and	Diagnosis and correct	Observe 1 family planning
maternal vital signs 5 cases	implementation of the difference	consultation
_	between the dose and type of	
	vaccine in children and adults	
Request for routine pregnancy	Child care department under 5	Do other consultations 2 cases
tests 5 cases	years:	
Educating the mother about self-	File formation for new clients 3	Providing a variety of
care in various subjects:	cases	appropriate family planning
nutrition, sleep, rest and personal		methods to clients, including oral
health and sexual relations,		contraception pills, condoms,
danger signs, pregnancy		ampoules, IUDs, etc., each of at
exercises and or postpartum		least 5 cases by performing
education 2 cases		examinations and requesting the
		necessary tests in each case.
Conducting group training for	Weighing and measuring the	Inserting IUD 4-2 cases
pregnant mothers 1-2 cases	height and head circumference	l 2 cuses
related to pregnancy and	of children correctly 10 cases	
postpartum training	of children coffeetly 10 cases	
	Draw the growth curve correctly	Removing IIID one case
oral and teeth health of pregnant		Removing 10D one case
women and referral to the dentist	on a special card for 10 cases	
in necessary cases 2 cases		
•	Diaming visitation intervals for	Individual on amount maining and
Guidance on tetanus vaccination		Individual or group training and
2 cases	growth monitoring for 10	management of family planning
Durant amount of the latest	children	classes at least one case
Breast examination and check it	Diagnosing deviations from	Prepare an educational pamphlet,
to prepare for breastfeeding 1	proper growth and following up	booklet or poster in family
case	the cause by conducting an	planning 1 case
	interview with the mother and	
	giving the necessary	
	recommendations and possibly	
	the necessary referral to a doctor	
	in 2 cases	
Screening high-risk mothers and	Teaching proper breastfeeding to	Vaccination department:

referral to a specialist doctor or	the mother 3 cases	
hospital 1-2 cases		
Request for ultrasound 1-2 cases	Complementary nutrition	Use of cold chain in the use of
	education 2 cases up to one year	vaccines
	old 2 cases up to two years old	
Diagnosis of high-risk	Training on bottle-feeding in 1	Applying aseptic principles
pregnancies, risk training,	case	when vaccinating
referral h cases and follow-up		
Planning for reference intervals	Teaching proper nutrition to	Using the correct method of
in 5 cases	children over 2 years old	prescribing and injecting
Participate in questions and		different types of vaccines
answers and study theoretical		
topics		

Main course references:

- 1. Social Prevention Medicine Textbook, Park, John Edret. Last Edition.
- 2. Methods and techniques of counseling, Shafi Abadi, Abdullah. The latest edition.
- 3. Principles of Interpersonal Skills, Ministry of Health and Medical Education,
- 4. Health Education, Ramachandran, L. The latest edition
- 5. Public Health, Razavi et al. (Latest edition)
- 6. Dr. Mohseni's communication book, latest edition
- 7. Interpersonal Communication Skills in Reproductive Health and Family Planning United Nations Population Fund Country Support Group, IEC Center Group Translation, Ministry of Health Population Information and Training Center, Population and Family Planning -
- 8. Basic Concepts and Specialized Topics in Counseling, Goldard, David, translated by Hosseinian, Simin latest edition
- 9. Communication for Health, Hubble, John in collaboration with the WHO Representative Office
- 10. Changing the Behaviors of Children and Adolescents, Cromboltz, John Dee, Cromboltz, Helen, latest edition
- 11. Resources related to pregnancy and childbirth courses and gynecological diseases, latest edition
- 12. Resources related to health courses 1, 2 and 3 and principles of nutrition and nutrition therapy for mothers and children, latest edition
- 13. Social Prevention Medicine Textbook, Park, John Edret. The latest edition.
- 14. Integrated care of a healthy child (especially non-physician) Ministry of Health, Deputy of Health, Family Health Office, Children Department
- 15. Integrated care of pediatric diseases (especially non-physicians), Ministry of Health, Deputy of Health, Family Health Office, Children's Office 2007
- 16. Two volumes of guide to providing family planning services (first and second level) Ministry of Health, Deputy Minister of Health, Family Health Office and Population
- 17. Description of services of health team and family doctor, Ministry of Health, Health Programs Management Office, Health Programs Review Committee of Network Development Center
- 18. AEFI Survillance, World Health Organization, Translation: Ministry of Health, Deputy Director of Health

- 19. Integrated Maternal Health Care (Outpatient Services Guide) Ministry of Health, Family and Population Health Office, Maternal Health Office
- 20. National Guide to Performing Natural Childbirth and Providing Non-Drug Methods for Reducing Labor Pain, Ministry of Health, Family and Population Health Office, Maternal Health Department
- 21. National Guide to Providing Midwifery and Maternity Services, Mother-Friendly Hospitals Ministry of Health, Family and Population Health Office, Maternal Health Department
- 22. Kangaroo Care, Luzington Hu, S, Glant, SK, latest edition
- 23. Hug Care (Kangaroo), Parental Care Guide for Premature infants, Ministry of Health, Family and Population Health Office, Neonatal Health Office
- 24. WHO and UNICEF (last edition), support and promotion of breast feeding in child-friendly hospitals, Ministry of Health, Department of Child Health
- 25. National Maternal Death Care System, Ministry of Health, Deputy Minister of Health, Family and Population Health Office, Maternal Health Department
- 26. The latest protocols of the Ministry of Health regarding reproductive health, mother and child and family planning and vulnerable groups, nutrition and mental health.
- 27. The latest health indicators and statistics published about Iran and other countries of the world by the Ministry of Health and the World Health Organization and other international organizations such as UNICEF, International Children's Fund, and Population Fund International, UNESCO and...
- 28. The latest demographic statistics published by the Statistics Organization 19. Authentic demographic books as well as books related to school health
- 29. Authentic English and Persian books on family planning such as Spiroff Family Planning
- 30. Other reliable up-to-date references

Student evaluation method in different areas:

Active presence in the internship, completing related tasks of the patient, completing assigned tasks, participate in the final exam

Course Name: Principles of Psychiatry in Midwifery

Prerequisite or concurrent: General, Woman and Family Psychology

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

-Familiarity with the definition and nature and applications of psychiatry

- -Familiarity with common types of mental disorders
- -Familiarity with psychological changes during a woman's life
- -Familiarity with mental disorders during a woman's life, especially in the reproductive years
- -Familiarity with different types of attitudes toward mental disorders and their referral
- -Dealing with pregnant women who have mental health problems
- Familiarity with the mental problems of infants and children

Course description:

By passing this course, students will become familiar with psychiatry and its application in identifying mental disorders, especially in different periods from before puberty to menopause, and infants' psychological problems, and their attitudes and referrals.

Outline: 17 hours):

1- Mental disorders including:

Cognitive-Mood -Diagnostic-Anxiety-Physicalization-Psychotic-Neurotic-Eating and Sleeping and Excretion-Sexual-Adaptation and Post-Traumatic Disorders with Emphasis on Sexual Violence, Domestic Violence, Especially Violence Against Women

- 2- Changes and mental disorders before and during menstruation, puberty, post-marriage, pregnancy, abortion, stillbirth, postpartum, lactation, infertility, menopause and grief and the points faced by them.
- 3- Infants' mental problems include: mental, linguistic and motor retardation, developmental disorders, hyperactivity, tic, eating, sleeping, defecation disorders and how to deal with them
- 4- General acquaintance with how to deal with mental disorders and referral cases

Main course references:

- 1. Sadock, B.J. & Sadock, V.A. (the last edition). Comprehensive Textbook of Psychiatry. Williams & Wilins: Lippincott.
- 2. American Psychiatric Association. (the last edition). Diagnostic and Statistical Manual of Mental Disorders
- 3. 10 Nusbaum M & Rosenfeld JA, Sexual health across the lifestyle, Cambridge (last edition)
- 4. 11 Blackburn M, Sexuality & disability, Butterworth Heinemann (last edition) Ancis JR, Jongsma AE, The complete womens psychotherapy treatment planner, Wiley (last edition) Zayfert C & Black Becker C, Cognitive behavioral therapy for PTSD (last edition)

Student evaluation method in different areas: 1- Written exam 2- Participation in class activities

Course Name: Sexual Function disorders

Prerequisite or concurrent: Principles of psychiatry in midwifery

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

- Familiarity with the characteristics of sexual function and the factors affecting it
- Familiarity with sexual function at different ages and conditions such as pregnancy
- Familiarity with sexual dysfunction
- Familiarity with the method of education and counseling in the field of problems related to sexual behavior

Course description:

During this course, students learn normal and abnormal sexual function in couples and sexual behaviors in childhood, adolescence, pregnancy, old age and in diseases and sexual dysfunction and education and counseling in this field.

Outline: (17 hours):

- Psychological theories related to sexual identity, sexual role and sexual behavior
- Sexology from the perspective of physiology and psychology
- The cycle of natural sexual response in women and men
- Factors affecting sexual response including diseases, drugs, age and family environment
- Sexology in childhood, adolescence, pregnancy, old age and organic diseases
- Sexual dysfunction
- Sexual cycle disorders
- The difference between normal and abnormal sexual cycles
- Sexual interest and arousal disorder in women and its causes
- Causes of genitopelvic pain and penetration disorder
- Sexual dysfunction in men and its effect on women
- Education and counseling in sexual dysfunction
- Paraphilia

Main course references:

- 1- Diseases of Novak women. Burke, Janan. S, latest edition.
- 2- Psychiatric Summary Behavioral Sciences of Clinical Psychiatry. Kaplan, Zadok, latest edition
- 3- Sexual issues and psychosomatic disorders. Kaplan, Zadok, latest edition
- 4 -Nusbaum M & Rosenfeld JA, Sexual health across the lifestyle, Cambridge (last edition)
- 5 -Blackburn M, Sexuality & disability, Butterworth -Heinemann (last edition)
- 6 -Ancis JR, Jongsma AE, The complete womens psychotherapy -treatment planner, Wiley (last edition)
- 7- Other reliable up-to-date sources to introduce the professor

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Radiology, Sonology and Electrology in Obstetrics and Gynecology

Prerequisite or concurrent: pregnancy and Delivery 1, 2 and 3 - gynecology and infertility

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

1. Familiarity with radiology and radiotherapy

2. Familiarity with sonography and electro logy and physiotherapy exercises

Course description: During this course, students are introduced to the basics of radiology, radiotherapy, electro logy and physiotherapy, and how to use it to diagnose and treat cases of gynecological diseases and obstetric problems, and to diagnose over-fetal birth.

Outline: (17 hours):

Teaching the following topics using anatomical models, slides, ultrasound, radiography, colposcopy and hysteroscopy, film, etc.

- 1- Basics of radiology and radiotherapy in midwifery (radioactivity, nature and properties and absorption of x-rays)
- 2- Application of high frequency currents, laser, cryotherapy in obstetrics and midwifery
- 3-Application of x-ray in obstetrics and gynecology (pelvimetry, fetal presentation) Hysterosalpingography and application of radiotherapy
- 4- Familiarity with ultrasound device and patient preparation before performing it Familiarity with colposcopy and hysteroscopy devices and patient's previous conditions and preparation
- 5- Ultrasound in the first trimester (diagnosis of viable and non-viable pregnancy, determination of gestational age, multiple pregnancies, placental sampling, etc.)
- 6- Diagnosis of complications in the first, second and third trimesters of pregnancy (abortion, molar pregnancy, ectopic pregnancy, amniocentesis, Down syndrome, etc.)
- 7- Diagnosis of fetal abnormalities (head, spine, heart, kidney, etc.)
- 8- Invasive methods of assessing the health and treatment of the fetus (amniocentesis, biopsy of the chorion blood sampling from the head of fetus and umbilical cord, blood transfusion, surgery, etc.)
- 9- Evaluation of amniotic fluid volume and its disorders Biophysical profile Location and age and placental grading and related disorders of fetal growth (weight determination macrosomia growth retardation)
- 10- Ultrasound in gynecological diseases including: examination of pelvis, fibroids, adenomyosis, ovarian masses, cancer and etc.
- 11- Radioactive tests for diagnosis
- 12- Familiarity with cowter and cryotherapy and their use and preparations and patient conditions before and after
- 14- Familiarity with laser device and its application in midwifery and women
- 15- Using tennis for dysmenorrhea and urinary incontinence, as well as massage and body movements to relieve pain and exercise during pregnancy and after delivery.
- 13- Kegel exercise

Main course references:

- 1- Recommended books by the relevant professor and books related to sonography, radiography, radiotherapy, TENS, physiotherapy and massage, sports, physical exercises, etc.
- 2 -Obstetric ultrasound Made Esay Norman C Smith MD FRCOG, (last edition)

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course name: Principles of Management and Its Application in Midwifery

Prerequisite or concurrent: Pregnancy and Delivery 1 and 2

Number of credits: 2 credits Credit type: theoretical

General purpose of the course:

1- Familiarity with the principles and the management process

2- Applying the principles of management in the administration of education and midwifery services and using various decision-making factors in order to solve the problems in midwifery.

Course description: By passing this course, students will learn the principles and the management process and will be familiar with the application of its principles in the administration of education and midwifery services.

Outline: (34 hours):

- Basics and principles of classical management, new management, behavioral management, goals and stages, management (organizational planning, personnel, supervisory, leadership, budget coordination, decision making, communication, control, monitoring, evaluation and special report).
- Supervision and management according to the roles of supervision, leadership, definition of leader, types of leader, and attributes of a manager (ethical, personality, scientific, merit and efficiency, commitment and responsibility...)
- Leadership and social power, leader-follower relations, leadership roles.
- Motivation, the main factors of motivation, recognition and motivation
- Principles and stages of decision-making, problem-solving process, power and delegation
- Planning according to the needs of mothers, infants and patients, staff of the relevant unit, inservice training (short and long term) supervision training.
- Improvement and continuity of quality and total quality management (TQM)
- Organizational entrepreneurship
- -Principles of evaluation in midwifery education and services
- Hospital divisions and the organization of health centers and health services, midwifery training at different levels, the role of management in providing services and midwifery education, administration of maternity wards and obstetrics and gynecology departments.
- Health care laws and regulations (staff employment regulations, job descriptions, hospital laws, midwifery services management and training responsibilities according to the objectives of midwifery services training.
- Organizational Excellence Management (EFQM), Models

Main course references:

- 1- Management Organization, Authority, Ali Mohammad, latest edition.
- 2- Principles of Management, Jasbi, Abdullah, latest edition.
- 3- Application of management skills in nursing services, Ghabeljoo, Manizheh, latest edition
- 4- Nursing and Midwifery Management, Hervabadi, Shafiqeh, Jam, Akram, latest edition
- 5- Recognition of hospital, Asefzadeh, Saeed, latest edition

- 6- Principles of Management and Midwifery Services, Rajabi Nejad, Tahereh, latest edition
- 7- Supervision in Management and Planning, Training Guide, Wales John, Mandy Joseph, Latest Edition
- 8- Principles of Management, Tehran: Coltz Herold et al., Center for Public Management, latest edition.
- 9- General management. Interest, Ali, latest edition.
- 10- and other reliable up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Gynecology and Infertility

Prerequisite or concurrent: Pregnancy and Delivery 1, 2 and 3, Semiology and Physical Examination

Number of credits: 3 credits

Credit type: theoretical

General purpose of the course:

- 1- Diagnosis of female health issues and appropriate decision-making in choosing the priority in the implementation of treatments and related care (physical, mental, social)
- 2- Ability to diagnose, decide and take appropriate action (referral, treatment and care) for lesions, abnormalities and diseases of the reproductive system
- 3- Recognizing the causes of the reproductive system diseases in women, and methods of prevention, diagnosis, treatment and related care.
- 4- Recognizing professional responsibilities and limitations and adhering to ethical principles and religious principles when providing services.

Course description: This course consists of reviewing the anatomy of the reproductive system, how to take a gynecologic history, menstrual physiology and related disorders, menopause genital tract disorders, breast, infertility and assisted reproductive technologies.

Outline: (51 hours):

- An overview of the anatomy of the female reproductive system (internal and external)
- Taking gynecologic history, gynecological examinations, and screening and diagnostic methods Knowledge of menstrual physiology (hypothalamus, pituitary, ovarian dysmenorrhea, P.M.S., etc.)
- Puberty (normal, early and late) and hormonal disorders and related diseases

Menstrual disorders, amenorrhea and abnormal bleeding of the genital tract

Menopause and the pre-menopausal period

Types of screening for common gynecological cancers and vaginal infections - STDs and AIDS / HIV infections

Vulvar and vaginal diseases (causes and symptoms of diagnostic and treatment methods, relevant care and preventive methods) infections, benign and malignant diseases.

uteri and cervical cancers (benign and malignant, including causes, symptoms, diagnostic methods, treatment related care, and prevention methods)

- Tubal diseases, infections, abnormalities, tumors and genital tuberculosis
- Ovarian diseases (benign and malignancies), tumors, cysts and polycystic ovary syndrome

Urinary tract disorders, urinary incontinence, vesicovaginal and rectovaginal fistulas

Breast Diseases: Tumors, Cysts, and Infections, Diagnosis, Treatment, and Prevention Endometriosis and PID

- Chromosomal disorders (various syndromes)
- Infertility:
- A variety of diagnostic, therapeutic and other measures and assistance to infertile couples
- Investigation of the causes of infertility in men and women

Common factors of male and female infertility (sexual issues, poor fertility, incompatibility (immunology)

- Necessary tests to diagnose the causes of infertility
- Factors of infertility in women, cervical, uterine, tubular, ovarian, endometriosis, adrenal factors, and factors related to the thyroid gland and endocrine examination, hormonal factors in infertility.
- Male infertility factors, semen disorders, varicocele, congenital disorders, endocrine disorders, environmental toxins and drug contacts orientation to assisted reproductive technologies
- Infertility counseling and psychological issues of infertility couples

Main course references:

- 1. Spiroff, latest edition
- 2. Novak gynecological diseases. Burke, Janan. S, latest edition.
- 3. Kissner's gynecological diseases. Ryan, Kent. The latest edition.
- 4. Gynecological, Hacker, and Moore Diseases Latest Edition
- 5. And other reliable up-to-date sources with the opinion of the professor

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Gynaecology and Infertility Practicum

Prerequisite or concurrent: gynecological diseases and infertility

Number of credits: 2 credits

Credit type: Internship

The general purpose of the course: 1- Gaining the ability to take a history from the patient and perform clinical examinations in gynecological diseases.

- 2 the ability to diagnose and treat some gynecological diseases
- 3- the ability to take the necessary care of the client
- 4- orientation with the role of midwives as counselors and educators in gynecological diseases and infertility
- 5- Recognizing the limits and duties of a professional in the field of providing clinical services according to ethical and religious principles

Course description: students learn the ability to take history of clients and perform clinical examinations of women, while getting familiar with gynecological diseases and treatment, they also play their advisory and educational role in meeting the needs of clients.

Outline: (102 hours):

Taking a history and performing clinical examinations in gynecological diseases under the supervision of a midwifery instructor and the relevant professor - getting familiar with how to diagnose gynecological diseases and infertility, how to perform prevention and follow-up measures - Diagnosis and treatment of common genital infections - Prescription - Observing gynecological surgeries In the gynecology and obstetrics operating room - getting familiar with counseling and gynecological diseases treatment and infertility issues - Carrying out the required caring in gynecological surgeries - Performing related services for clients and patients with various gynecological and infertile diseases including diagnosis, care, prescription, treatment, , Follow-up , training and necessary consultations in gynecological clinics and 3 infertility centers and also 3 days in gynecological surgery wards

24 days (4 and half hours a day 15minutes rest) (there is no problem in doing more than what is set by the student)

Preparation of wet smear in 15	Prescribing, treating and prescribing	Taking history and performing
cases	for the above 25 cases	physical examinations in 55-50
		cases
observing and diagnosing a wet	training 25 cases	Observation of genital tract
smear under a microscope 15		examinations in 2 cases
cases		
Perform and interpret Fern test in	counseling in 2 cases	Performing genital
2 cases		examinations in 50 cases
		(including external and internal
		examinations)
Perform PCT and observe it	Observation of gynecological	Observing breast examination

under a microscope in 1 case	surgeries in gynecological operating	in 2 cases
ander a interescope in 1 case	room 2-3 times a day	
Observation and assistance in	-	Breast examination in 10 cases
hysterosalpingography,	infertility cases in infertility clinic	Breast examination in 10 cases
	(one day)	
hysteroscopy, colposcopy,		DI
laparoscopy, cochlear	Observation, examination and follow-	-
implantation, dilatation and	1 77	cases
cervical curettage and	See 25 cases other than service and	
endometrium 1 case each	vaginitis	
Preparation of culture from	Taking a history and performing	Observation of cervical cell
vaginal secretions 1 case	examinations and prescriptions,	smears preparation in 2 cases
Educate the patient in 25 cases in	requesting tests and following up on	Preparation of cervical smear in
different cases	25 cases other than services and	15 cases
Familiarity with the diagnosis,	vaginitis (within the same 50 cases	interpreting the smear result in
management and treatment, care	we mentioned earlier) by mentioning	5 cases
and follow-up of patients	the names of the cases so it will be	Request the necessary tests in
admitted to the gynecology	clear for the instructor, has the	25 cases
department for 2 days (at least 6	student has trained which cases?	
different cases)	Sexually Transmitted Infections,	
Breast examination training to	Urinary Tract Infection, Urinary	Reading and interpreting test
the patient about spermogram	Incontinence, PID, Mole and GTN,	results in 15 cases
test 2 cases	Ectopic Pregnancy, Cancers, Cysts	
Interpretation of semen analysis	and Ovarian Masses, Myoma,	Diagnosis of cervicitis and
test result 1 case	Abnormal Diseases, Dysmenorrhea,	vaginitis in 25 cases
Participating in discussions and	PMS, Abnormal Bleeding,	
study theoretical topics	Amenorrhea, Infertility(,	

Main course references:

- 1. Spirof, latest edition
- 2. Novak gynecological diseases. Burke, Janan. S, latest edition.
- 3. Kissner's gynecological diseases. Ryan, Kent. The latest edition.
- 4. Gynecological, Hacker, and Moore Diseases Latest Edition
- 5. And other reliable up-to-date sources with the opinion of the professor

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Nutrition in Maternal and Child Diseases

Prerequisite or concurrent: principles of maternal nutrition - pregnancy and childbirth (4) -

gynecological diseases and infertility

Number of credits: 1 credit Credit type: theoretical

General purpose of the course:

1- orientation with different diets in the prevention and treatment of diseases

- 2- orientation with nutritional disorders in causing diseases, especially during pregnancy and lactation
- 3- orientation with how to teach proper nutrition to the client in order to prevent and treat malnutrition in mother and child

Course description: During this course, topics related to various diets for the prevention and treatment of diseases, eating disorders and diseases, emphasizing on pregnancy and lactation and proper nutrition.

Outline: (17 hours):

- 1- The general role of diets in the prevention and treatment of nutritional and non-nutritional diseases
- 2- Principles of diet and treatment regimens
- 3- Evaluating the nutritional status of infants and mothers and detecting clinical signs due to malnutrition in mothers and infants
- 4- Classification of normal hospital regimens and treatment regimens
- 5 Overview of the use of food schedule and the form of food substitutes, planning a meal based on serves, calories and food groups needed
- 6- Interaction between food and medicine
- 7- Nutrition and infection nutrition and diarrhea
- 8- Feeding premature babies
- 9- Nutrition of pregnant and lactating women with diseases and special conditions:

Surgery - Cardiovascular diseases

Obesity - Kidney diseases

Blood pressure - Pregnancy blood pressure and preeclampsia

Diabetes mellitus - Metabolic diseases

Anemia, general weakness, etc.

Main course references:

- 1. Medical nutrition and treatment regimens, Copper, Heinrich, latest edition
- 2. Nutrition during pregnancy, lactation and infancy and childhood. Forouzani, Minoo, latest edition
- 3. Infant nutrition based on physiological principles, Tehran: Deputy Minister of Research, Ministry of Health, Medical Education,
- 4. Mohan L.Katbleen Escott, Sylvia Krauses food nutrition & diet therapy Printed in the united states of America USA.

- 5. Principles of Krause feeding, latest edition
- 6. Improving the growth and nutrition of children, Ministry of Health, Deputy Minister of Health, Office of Community Nutrition
- 7. National Guide to Nutrition during Pregnancy and Breastfeeding, Ministry of Health, Deputy Minister of Health, Population and Family Health Office, Nutrition Improvement Office
- 8. Breastfeeding, Esfahani, Mohammad Mehdi, latest edition
- 9. Integrated care of healthy children (especially non-physicians) Ministry of Health, Department of Children
- 10. Integrated care of pediatric diseases (especially non-physicians), Ministry of Health, Deputy Minister of Health, Family Health Office, Children's Office

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Painlessness, anesthesia and CPR in Midwifery

Prerequisite or concurrent: Pregnancy and Delivery 1 and 2 - Neonatology - Pharmacology 1 and 2

Number of credits: 1 credit

Type of credit: 0.5 theoretical credits - 0.5 practical credits

General purpose of the course:

- 1- orientation with different methods of regional anesthesia (regional anesthesia) in midwifery and women
- 2- orientation with complications after regional and general anesthesia
- 3- orientation with the prevention of complications after anesthesia and related care
- 4- orientation with CPR of the newborn in the operating room or normal delivery room
- 5- Awareness of the dangers of using regional anesthesia and general anesthesia and analgesia in the mother and fetus and the necessary prevention and care

Course description: By passing this course, students will be familiar with different methods of local anesthesia and general anesthesia in midwifery and the probable dangers for mother and fetus and learn the necessary care in these cases.

Outline: (26 hours):

A. Theory (9 hours)

- 1- A review of the anatomy and physiology of the reproductive system with emphasis on its sensory and motor nerves
- 2- Recognition of the anatomy of the upper respiratory system and its physiology
- 3- Definition of anesthesia and analgesia (anesthesia and anesthesia or analgesia)
- 4- recognizing anesthetic drugs and their mechanism, and various gases such as oxygen, halothane, carbon, N2O and the dangers arising from them and necessary precautions

Types of anesthesia: local, pudendal, Para cervical, epidural and spinal, complications and poisoning due to them and possible risks of using anesthetic drugs such as anoxia shock, treatment and related care

- 6- General anesthesia and possible risks of using different drugs and their effects on mother and fetus and their treatment
- 7- Recognition of anesthesia devices and intensive care of the patient before anesthesia and (prodrug)
- 8- Stages of general anesthesia Necessary care during anesthesia
- 9- Care after anesthesia or after surgery in the recovery room
- 10- Choosing the type of anesthesia in different cases, choosing anesthesia in vaginal delivery, forceps, vacuum, cesarean section and obstetric and gynecological surgeries
- 11- Oxygen therapy during cesarean section in the fetus CPR of the newborn and CPR of the mother

B- Practical (17 hours)

1- Participating in the neonatal CPR workshop (the practical part is not limited to the model. They should be present in the operating room to observe.

2- Observing and getting familiar with the equipment and facilities and performing anesthesia and regional methods and complications during and after the operation and recovery.

Main course references:

- 1- Special books on anesthesia, latest edition
- 2- Williams Midwifery, latest edition

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the midterm exam 4- Participation in the final exams

Course Name: Research Methodology and Design

Prerequisite or concurrent: Pregnancy and Delivery 3- Management and Quality Improvement

in Maternal, Child and Reproductive Health (health 5) - Gynecology and Infertility and infertility -

Maternal, Child and Reproductive Health (health 4)

Number of credits: 1 credit

Type of credit: 0.5 theoretical credits - 0.5 practical credits

General purpose of the course:

Providing opportunities for students to become familiar with the scientific method of research and writing a preliminary research project.

Course description: This course is designed to acquaint students with midwifery research and how to choose a topic as a research topic and how to prepare and write a research plan.

Outline: (26 hours):

A. Theory (9 hours)

- 1- orientation with research (importance of research types of research)
- 2- How to choose the title of the research
- 3- A review of the performed

studies

- 4- Objectives and hypotheses
- 5- Research community and sample research environment
- 6- Variables
- 7- Method of data collection
- 8- Data collection tool validity and reliability of the tool
- 9- Data analysis
- 10- Interpretation of findings, conclusion, application of research results and its report
- 11- Ethical principles in research

B- Practical (17 hours)

Main references of the course: All books on research methods in health sciences or midwifery (latest edition and valid up-to-date sources)

Student evaluation method in different areas:

Doing homework - Presenting a research project at the end of the class individually or in groups (3-4 people)

Course Name: Medical Information Systems (Information Technology in Midwifery)

No prerequisite or concurrent Number of credits: 1 credit

Type of credit: 0.5 theoretical credit - 0.5 practical credit

General Purposes of the Course: At the end of this course students will be able to:

Define the concepts of information technology in Medical Informatics.

Getting familiar with communication and information concepts.

Getting familiar with the information tools of medical sciences, indexes and important databases of medical sciences and use them in practice.

Knowing the characteristics of medical libraries and learn how to use resources.

Describing the classification system of the National Library of Medicine (NLM) and learn how to use the Thesaurus.

Getting familiar with the use of computers in medical sciences, nursing and midwifery.

Learning the basics of working with computers, the Internet, and search engines.

Gaining search skills in print and electronic information sources.

Preparing and recording computer reports and learning its benefits.

Computer training should be reviewed and analyzed.

Reviewing computer science systems of medical and midwifery sciences.

Getting familiar with useful sites and how to use and apply them.

Course description: In this course, students will understand the concepts of information technology in medical sciences, infrastructure, applications and challenges, as well as the characteristics of medical libraries and the classification of resources and methods of using medical libraries, information tools, databases and medical databases. Nursing and midwifery will be introduced and practiced in print and electronic form, access to and provision of resources, reporting and training through computers, computer information systems and useful sites.

Outline: (26 hours):

Concepts of information technology in medical sciences such as its definition, history, infrastructure, applications and challenges

Different methods of communication through the Internet, types of simultaneous and asynchronous communication and definition of information concepts

Introducing medical science information tools, indexes and medical science databases and how to use them

Medical libraries and types of resource classification, how to use resources and midwifery references (in printed and electronic form)

How to use thesaurus and define the NLM system in the library.

Applied aspects of computer in medical sciences, nursing and midwifery such as facilitating access to resources and using technology

- General work with computer, operating system, word software, PowerPoint and Internet and search engines

General and specialized retrieval and search methods such as searching databases of medical sciences, nursing and midwifery such as medals and signals

How to prepare a computer report; Registration of examinations, procedures and computer reports and its benefits

orientation with different teaching methods through computer and its analysis.

Definition and introduction of various computer information systems of medical and midwifery sciences

Introducing useful sites, applications and how to use them

- Critique of the management of the information system of a hospital

Main course references:

- 1- How to use medical authorities. Yazdanfar, Simin, latest edition
- 2- Information retrieval systems. Lancaster, Wilfred Last Edition
- 3- Internet for nurses and midwives. Jannati, Yadala latest edition
- 4 Handbook of Medical Informatics, (last edition), Stanford University, MIT publication, http://www.mieur.nl/mihandbook, http://www.mihandbook.stanford.edu/
- 5 Handbook of Informatics for Nurses & Health Care Professionals, (last edition), Prentice Hall; (last edition)
- Cumulative Index & Allied Health Literature (last edition) .CINAHLL Information System. 6
- and other reliable up-to-date sources

Student evaluation method in different areas:

Doing homework - Presenting a research project at the end of the class individually or in groups (3-4 people)

Practical exercises (five cases) 40 points and end-of-semester homework (two cases) 60 points

Course Name: Growth and Development Prerequisite or concurrent: Neonatology

Number of credits: 1 credit Credit type: theoretical

The general purpose of the course: to acquaint students with growth and development in humans from childhood to adulthood.

Course description: This course helps students to get familiar with the natural development of human beings in different stages of life and to have a correct diagnosis of growth and development in the relevant clinical examinations in infants, children and adults.

Outline: (17 hours):

1- Background and factors affecting growth and development: Biology - Environment - Economic, social and cultural context -

Inheritance genetics - sperm coagulation - prenatal development (embryonic period) - embryonic education - birth.

2- Growth and development in newborns: birth and birth examinations-attachment-bounding,

Neonatal reflexes - Developmental and developmental changes in the neonatal period - Family education - Regarding communication

Communicating with the baby and disruptive factors and taking care of the parents and family members in accepting the baby.

3- Growth and development in infants: Perfection and development in physical, social, emotional, psychological, sexual, cognitive dimensions,

Ethics, speech, mental image of body, communication with parents, needs, nutrition, health monitoring and health promotion, accident prevention and vaccination.

- 4- Developmental development in toddlers: Parents' relationship with toddler, personal adjustment, independence, developmental development from physical, social, emotional, psychological, sexual, cognitive, moral, speech, thinking words, self-image, play, needs, restrictive rules. Control of physical actions promotion and supervision of health and prevention of accidents.
- 5- Growth and development in children: family and young child, growth and development in physical, social, emotional, psychological, sexual, cognitive, moral dimensions, speech, thinking, mental image of self, play, needs, dependence toward independence, promotion of health and development.
- 6- Growth and development in newborns: Newborn and family, growth and development in physical, social, emotional, psychological, sexual, cognitive, moral dimensions, speech, thinking, mental image of self, play, work, needs, promotion

And health monitoring and accident prevention.

7- Growth and development in adolescence: A review of developmental maturity, biological changes in adolescence, changes in social cognition, development in social and emotional dimension, "self" and personality development, mental image of oneself, group communication with peers, relationship with family and parents, development and development Psychological and sexual, spiritual

development, language and speech, health promotion and supervision, accident prevention and education

Sexual issues.

8- Growth and development in youth: physiological concepts, appearance and personality, theories proposed in youth,

Gender, nutrition, rest and sleep, work, leisure, psychosocial concepts, theory of evolution, cognitive evolution, family planning, opposite sex, love and marriage, pregnancy and parental role, lifestyle, common health and physical illnesses, and emotional issues and marriage issues.

9- Development in middle-aged person: development and interaction in family, relationship with children, relationship with spouse, relationship with parents and relatives, physiological concepts, hormonal changes, metabolic changes, emotional changes,

Nutritional needs, need for rest and exercise, lifestyle, promotion and health monitoring, common diseases, psychological and social concepts, cognitive processes of evolution, work-leisure, emotional development, mental image of oneself, crisis in middle-aged life, menopause and menopause.

- 10- Changes in the elderly: society's attitude towards the elderly, theories, developmental development, physiological changes, physical health and common diseases, changes in the mental dimension, mental development, adaptation mechanisms, change in mental image, cognitive and social changes, cognitive and structural changes, change Necessary welfare and social.
- 11- Death (the last stage of evolution in the world): Concepts of the evolution of death, the concept of death from the perspective of children, adolescents and adults, the emotional behavior of the person facing death, awareness of death, the stages of reaction to imminent death, grief over the loss of loved ones, children and spouse, the role of the midwife in these cases, the necessary interventions and helping the person and family and helping the dying person.

Main course references:

- 1) Human growth and development Arzomanians, Sonia latest edition
- 2 Bellman M. Peile E. The normal child Churchill Livingston (last edition)
- 3- Neeraja KP. Text book of growth and development for nursing students –Jaypee (last edition)
- 4 Thies KM. Travers JF. Hand book of Human development for health care professionals –Jones and Bartlett (last edition)
- 5 Beaver M. Brester J. Jones P. Neaum S. Tallack J. Early years care and education Nelson Thornes (last edition)
- 6 Beaver M. Brester J. Jones P. Neaum S. Tallack J.Babies and yong children certification in child care and education Nelson Thornes (last edition)
- 7 Crain W. Theories of education concepts and applications (last edition). Prentice Hall (last edition)
- 8 Buckly B. Children communication skills from birth to five years Routledges (last edition)
- 9 Pressley M. Mc Cormick CB. Child and adolescent development for educators Guilford S. (last edition)
- 10) and other reliable up-to-date sources

Student evaluation method in different areas:

1- Active presence in the class 2- completing and midterm exam 4- Participation in the final exams	submitting	assignments 3	3- Participation	in the

Course Name: Preparing for Childbirth and Physiological Delivery

Prerequisite or Concurrent: Pregnancy and Delivery 1 and 2 (Prerequisite) - Pregnancy and Delivery

3 (Prerequisite or Simultaneous) Number of credits: 2 credits

Type of credit: 1.5 theoretical credits - 0.5 practical credits

General purpose of the course:

1- orientation with education during pregnancy

- 2- orientation with non-pharmacological techniques to deal with labor pain
- 3- orientation with methods of preparation for childbirth
- 4- orientation with childbirth planning
- 5- orientation with preparing other family members

Course description: This course helps students to get familiar with the necessary theoretical topics in practice with the necessary training for pregnancy and then for the mother, spouse and family and learn their application in practice.

Outline (43 hours):

A. Theory (26 hours)

Adaptation to pregnancy: Acceptance of pregnancy - Communication with the developing fetus - Adaptation and acceptance of parental role - Adaptation of father

Pregnancy education: Preparation classes for childbirth - Benefits and goals - Classes - Educational materials - Basic components of prenatal education programs - Content of classes - Number of sessions - Time and intervals of classes - Teaching method - Types of classes - Choice of type and environment of childbirth and visit the place

- Mechanism of the labor pain Pain theories Valve control and its new theory
- Non-pharmacological techniques to deal with labor pain: relaxation benefits of relaxation relaxation techniques breathing techniques in different stages of labor hypnosis aromatherapy massage acupressure T Herbal medicine change of position and correction of the situation Methods of preparation for childbirth: Dick Reed method Lamaz method Bradley method Kitzinger method Labour method Comparison of methods of preparation for childbirth and their commonalities
- Planning for delivery: Objectives of planning for delivery Choosing the place of delivery Spouse participation Labor, delivery and postpartum administration
- Accompanying role of the class to prepare the spouse Prepare other children, grandmothers and grandfathers Use of doula
- Physiological delivery Relaxation and breathing techniques (theoretical / practical) Perineal changes in pregnancy (theoretical / practical) Different positions of delivery Correction of labor in labor and removal of disorders Physical exercises in pregnancy Rehabilitation training Training after training adults

- Group dynamics Mind management
- Practical administration of postpartum training classes for mother care and care of infants and toddlers, including 8 sessions
- **B- Practical (17 hours):** Performing activities and learning skills taught in a practical and workshop manner regarding positions during labor and delivery, posture correction, sports and physical exercises during pregnancy and after delivery and practical management of the class

Main course references:

Midwifery and Maternity books and references of the Ministry of Health and other reliable up-todate sources (latest edition) and related films

Complementary Therapies for pregnancy and child birth - D.Tiran, S.Mack

Student evaluation method in different areas:

1- Active presence in the class 2- completing and submitting assignments 3- Participation in the final exams

Course name: Implementation of a professional problem-solving plan or research article in midwifery

Prerequisite or concurrent: pregnancy and Delivery (3), health (4 and 5), gynecology and infertility

Number of credits: 1 credit

Credit type: practical

General Purposes of the Course: Familiarity with how to formulate and carry out a project to solve work and research problems or to write a scientific article or a book

Course description:

This course helps students prepare themselves to meet their needs and solve environmental and professional problems independently using available resources and facilities.

Outline: (34 hours):

- 1) The stages of a work and research project, including reviewing and evaluating the problem (individual, society, family and environment, and organizations and services), design and planning, implementation and intervention, evaluation and reporting in full
- 2) Complete the various stages of translating or compiling an article or book, including choosing a subject, reviewing texts, collecting material, organizing, and content, and final writing with reference writing, in full.

Main course references:

The same references of theoretical courses depend on the topic chosen for the project, as well as any other source that the professor deems necessary or suggests.

Student evaluation methods in different areas:

Step-by-step presentation of practical assignments and final presentation of the complete project Each project can be done by 1-to 5 students depending on the professor's workload. The amount of assignments for each student is at least 50 pages. The faculty is allowed to guide a maximum of 4 to 5 students.

Course Name: Theories and Models of Midwifery and Health Prerequisite or concurrent: Pregnancy and Delivery 1, 2 and 3

Number of credits: 1 credit Credit type: theoretical

General Course Purposes:

Familiarity of students with various models of care delivery in midwifery that form the scientific basis of midwifery education, care, and treatment.

Course Description: Each science has its own discipline for the development and performance of scientific models. Midwifery as a human profession has provided relevant care models in this field and has made significant progress in this regard.

Outline (17 hours):

- Overview of the history of midwifery in relation to presenting theories and models of providing care derived from them.

Midwifery discipline and its structure: Midwifery is a health-oriented discipline.

- Conceptual models (constituent elements of the model, development of conceptual models, classification of midwifery models) and the difference between conceptual and theoretical models.

Knowledge, understanding and its application in midwifery theory: Dermatology theory (clinical, conceptual and empirical theories).

Midwifery: a comprehensive model of care for women during pregnancy and reproductive cycles and, at the same time community-oriented

Philosophy of caring for pregnant women, comprehensiveness of culture and place, comprehensiveness of women's health needs from home to hospital, midwifery emergencies, client pressure to change midwifery, development of professional organizations, midwifery integration in the delivery

Health care for women, especially pregnant women and...

Types of models used in midwifery:

Reasoning and decision-making model

- Quality assurance model from a community-oriented midwifery perspective

Evidence-based treatment model

Midwifery coordination model in care management

- Inter-group midwifery cooperation model

Family evaluation model

Self-care model

Some health models

Main course references:

One – Baillie James.Contemporary analytic philosophy. (Last edition). Upper Saddle River. Newjersy. Prentice-Hall. (Last edition)

2- Decherneg Pregler. Women's health principles and clinical practice. (Last edition)

- 3 Breslin Eileen.T. Womens, health nursing. (Last edition)
- 4 Page Lesley Ann. The new midwifery. (Last edition)
- 5- Lium Carol. Health promotion. (Last edition)
- 6- Sherblom Matteson Pegge. Women's Health during the childbearing years. (Last edition)
- 7 Symonds Anthem. The midwifery and society. (Last edition)
- 8 Arnold Joan. Health promotion. (Last edition)
- 9 Henderson Christin. Essential midwifery. (Last edition)
- 10 Tomy Ann Marriner. Nursing theorists and their work. (Last edition)
- 11 Walsh V. Linda. Midwifery community-based care during the childbearing year. (Last edition)
- 12 Frith Lucy. Ethics and midwifery. BFM (last edition)
- 13- Principles and philosophy of education. Shariatmadari, Ali. The latest edition
- 14. Mills Midwifery Textbook. The latest edition
- 15- Theories of nursing, Dehghan Nairi, and Jalalinia. The latest edition

And other reliable, up-to-date sources

Student evaluation methods in different areas:

1- Active presence in class 2- completing and submitting assignments 3- Participation in the final exams

Course Name: Sociology and Social Pathology of Women

Prerequisite or concurrent: General, Women and Family Psychology - Pregnancy and Delivery 1 & 2

Number of credits: 1 credit Credit type: theoretical

General-purpose of the course:

Informing students about the scientific methods of dealing with social phenomena and creating the necessary intellectual background in order to recognize and analyze the social issues of clients, especially women, and general knowledge about the set of conditions in which people are born socially—also, applying the principles of proper communication for the effectiveness of care and treatment and the possibility of correcting and changing the appropriate behavior in clients according to their culture and sociological characteristics. Finally, familiarity with the social harms to women and other family members inside and outside the family.

Course Description: This course helps students to provide their training, counseling, and care to clients according to their cultural and sociological characteristics and with the help of practical communication principles to provide their services. They can also offer services to family members, especially women with social ills.

Outline (17 hours):

- Thematic realm in the field of sociology
- Culture, society, and personality
- Social group

Ethnicities and cultural and sociological differences of individuals and their observance in the provision of services

- Recognition of social organizations
- Socio-cultural dimensions of health and social factors affecting health (SDH)
- Socialization
- Social relations and their need and role in society and cultural system
- Principles of communication, especially in communicating with people with social disabilities
- Social harm to women, children, and family members inside and outside the family

Violence and abuse against women and other family members inside and outside the family

- Social deviations (Overview of several significant issues: poverty - crime - suicide - addiction - alcoholism - inappropriate marriage - moral deviations)

Primary references of the course: books related to communication as well as sociology in medicine and health and social pathology about women and family (latest edition, valid and up to date)

Student evaluation methods in different areas:

1- Active presence in class 2- completing and submitting assignments 3- Participation in the final exams

Course Name: Evidence-Based Midwifery

Prerequisite or concurrent: Biostatistics, principles of epidemiology and disease control (health 2),

medical information systems (information technology in midwifery)

Number of credits: 1 credit

Type of credit: 0.5 theoretical credits - 0.5 practical credits

General purpose of the course:

Familiarity with evidence-based practice, policies, regulations, and methods of using statistics and research

Enabling students to use evidence, evaluate it, and analyze the limitations and benefits of any research

- Scientific and practical application of this method in solving problems and creating an individual approach to each patient and problem

Course Description: This course helps students to use the latest available scientific information correctly in dealing with evidence-based solutions for each patient.

Outline (26 hours):

A- Theory (9 hours):

- Introduction of evidence-based practice method: Familiarity with this method, how to use this method, the process of development and organization of evidence-based method, and the introduction of a specific approach of the medical team to each patient
- How to make a question based on the patient's problem, familiarity with the medical team's motivations in solving the patient's problems individually, familiarity with designing an appropriate question of the patient's problems, group, or community, compiling four important parts in organizing the question: a) patient's problem B) interaction (cause, prognosis, and treatment), c) comparison of interventions in patient's condition and d) factors affecting the outcome of interactions in patient's condition
- The quality of intervention of organizations involved in the evidence-based practice
- Review the research to answer the questions, identify the sources used for the research, get familiar with the design of the search program for articles, get familiar with determining the appropriate keywords for the search, learn how to organize the findings, and focus the results on answering the question

Evaluation of evidence regarding the usefulness of interventions, the ability to evaluate the quality of research, including sensitivity, specificity of tests, important statistical relationships, sample size, reduction of absolute risk, the sample size for a clinical trial, relative risk, and confidence interval

- Appropriateness of the type of research with the desired question, review or familiarity with the types of research methods, evaluation of each in relation to the desired question, familiarity with systematic review and meta-analysis, familiarity with Internet resources and medical libraries
- Evaluate the value of each research, the ability to determine the credibility or trust, the appropriateness of the measurement tool with the intended purpose, how to eliminate confounding factors, and the quality of follow-up of the subjects

Proposed instructions for the patient's problem based on evidence, the ability to formulate instructions according to the types of research used, and recognizing specific issues in each problem.

B- Practical (17 hours):

- Selecting a midwife patient, asking a question, searching for and presenting a solution, and finally comparing the student's solution with the usual interventions and preparing a practical clinical guide

Main course references:

- 1- Valid, up-to-date sources determined by the professor
- 2- Using relevant internet sites such as:

http://www.emro.who.int/rpc/pdf/healthresearchers_guide.pdf PDF]

An Introduction to Evidence-Based Medicine

www.usc.edu/.../education/clerkship/evidence_based/pdf/An_Introduction_to_Evidence

Based_Medicine.pdf

Course Name: Complementary and Alternative Medicine

Prerequisite or concurrent: Pregnancy and Delivery 1, 2, 3, and 4 and their practicumps - Gynecology

and infertility - Gynecology and infertility internship

Number of credits: 1 credit Credit type: theoretical

General-purpose of the course:

Familiarity of students with various methods and complementary and conventional alternative treatments in providing midwifery services and using them in clients

Course description:

This course helps students to learn about complementary therapies and their alternative uses in midwifery.

Outline: (17 hours)

History of complementary and alternative medicine and familiarity with the various methods that are currently used to provide modern health services.

How these methods are included in modern midwifery services and care (human integration, integration of care, research in these methods, training and special courses in these methods, disciplines that use these treatments, responsibilities and related requirements in using these methods, related laws, related laws). And coordination with other relevant specialists in the application of these methods, giving knowledge and obtaining the consent of clients, policies and policy-making, evaluations and audits, associations, and specialized centers related to modern sciences in the field of alternative medicine.

Familiarity with a variety of common methods in pregnancy and childbirth and midwifery in mother, child Weight:

Homeopathy

Osteopathy

Chiropractic

Acupuncture

Herbal medicine

Massage and aromatherapy

Reflexology

Acupressure (acupressure or shiatsu)

Hypnosis

Hydrotherapy

- Calming and relaxation and mental imagery of and ...

Other conventional methods of yoga, meditation, etc.

Heat therapy and cold therapy

Using the above therapies to relieve physical, mental, and emotional stress

Main course references:

- 1 Tiran D.Mack S. Complementary Therapies for pregnancy and childbirth (last edition) Tindal Bailliere
- 2- Valid, up-to-date sources determined by the professor

Student evaluation methods in different areas:

Relevant homework and final exam

Course Name: Complementary and Alternative Medicine Practicum/Internship

Prerequisite or concurrent: Complementary and alternative Medicine in midwifery (theoretical)

Number of credits: 1 credit Credit type: apprenticeship

General Purpose of the course: Familiarity of students with various methods and complementary and conventional alternative therapies in providing midwifery services and their application to clients

Course Description: This course helps students to become familiar with complementary therapies and their alternative applications in midwifery.

Outline: (51 hours)

Practical acquaintance and application of various conventional methods in pregnancy, childbirth, and midwifery in mother, child weight during the internship in the hospital, including:

Homeopathy

Osteopathy

Chiropractic

Acupuncture

Herbal medicine

Massage and aromatherapy

Reflexology

Acupressure (acupressure or shiatsu)

Hypnosis

Hydrotherapy

- Calming and relaxation and mental imagery and ...

Other conventional methods of yoga, meditation, etc.

Heat therapy and cold therapy

Use of the above treatments to relieve physical, mental, and emotional stress

Note: At least five methods should be taught in maternity, prenatal, and possibly gynecological internships.

Main course references:

- 1 Tiran D.Mack S. Complementary Therapies for pregnancy and childbirth (last edition) Bailliere Tindal
- 2- Other Valid, up-to-date sources determined by the professor

Student evaluation method in different areas: Relevant assignments and final exam

Course Name: Traditional and Herbal Medicine in Midwifery

Prerequisite or concurrent: General, Woman and Family Psychology – Health 2 -Embryology – Genetics - Pregnancy and Delivery 1, 2, 3, and 4 and their practicums, gynecology and infertility and

its practicum

Number of credits: 1 credit Credit type: theoretical

General Purpose of the course: Familiarity with traditional medicine and medicinal plants and their use in obstetrics

Course description: This course helps students to get familiar with traditional medicine and how to use the effects of plants in solving problems related to patients and clients in Dermatology in addition to modern medicine.

Outline: (17 hours):

Introduction to the history of traditional medicine and midwifery in Iran and the world:

The emergence of medicine in different nations, the contribution of different nations in the development of medicine, major schools of ancient medicine, the flourishing of medicine in Islamic civilization with emphasis on midwifery, Iranian traditional medicine schools at home and abroad with an emphasis on midwifery and women

Persian, Arabic, and English medical terms with emphasis on gynecological and obstetric diseases:

Terms related to the description of the duties of members and diseases, etc.

Basics and natural affairs of Midwifery:

Theoretical and practical wisdom, sensations and position of medicine and midwifery in this classification, natural affairs, causes and reasons, and symptoms in this classification, natural affairs and their importance in traditional and midwifery medicine

Hygiene measures and principles of prevention in women and midwifery:

Nutrition and food control on the acquisition of temperament quality, eating habits, cooking inconsistencies; Preparation and maintenance of food, movement, and stillness of the body, bathing management, retention and vomiting management, sexual intimacy management, management of pregnant and lactating women and children, management of back diseases, management of youth, middle-aged and elderly.

Causes, reasons, and symptoms of dermatology:

Definition of health and disease, dysfunction and its types, four-time stages of the disease, essential set, causes of the disease with emphasis on gynecological diseases and obstetric problems

Familiarity with the principles of work and ethics in traditional medicine

Familiarity with the view of traditional medicine toward humans and the causes and symptoms of diseases

Dermatological and Obstetric Components

Principles and foundations of treatment and major diseases of obstetrics and gynecology:

Natural therapies (nutrition, austerity, ...), surgical treatments, cupping, interest, complement, algebra, relevance, purification and ...

Familiarity with the uses, effects, side effects, advantages, and disadvantages of traditional medicine as well as medicinal plants and how to prescribe them, especially in the following cases:

- Infections of women
- Diseases of the reproductive system, bladder, anus, and sexual function
- Regulation of hormones
- Treatment of cancers, especially gynecological cancers
- To relieve pain and relieve fever, and cough
- To solve specific problems during pregnancy
- For breastfeeding and postpartum problems
- For special disorders of infants and toddlers
- For skin infections such as fungus and ...
- To soothe and calm the nerves
- To strengthen strength and blood formation and contains special vitamins
- For gastrointestinal, heart, blood pressure and ...

Note: In case of lack of hours, the hours can be increased up to 100% with the opinion of the midwifery training group.

Main course references:

- 1- History of medicine in Iran, history of medicine, (late Dr. Najmabadi, Cyril Algood), Ayoun Al-Anba, history of the wise, latest edition
- 2- Summary of Al-Hikmah, Bahr al-Jawahar, Qamoos al-Qunun, latest edition
- 3- Khorazmshahi collection (humiliation of the late Seyyed Jalal Mostafavi), last edition
- 4- Explanation of the reasons and the signs of Nafis bin Awad, the last edition
- 5- Law, last edition
- 6- Al-Hawi, Al-Mansouri, last edition
- 7- The benefits of food and the removal of harmful substances, the last edition
- 7- The benefits of food and repelling harms, the latest edition

And other books on traditional medicine and complementary therapies valid, according to the professor

Student evaluation methods in different areas:

Active attendance in class - completing homework - evaluation at the end of the semester

Course Name: Reproductive Biology

Prerequisite or concurrent: Physiology 1 and 2 - Embryology - Pregnancy and Delivery 1

Number of credits: 1 credit Credit type: theoretical

The general aim of the course: to get familiar with the biology of reproduction in the context of human biology. This is achieved by recognizing the structure and function of the male and female reproductive systems, gametogenesis and fetal development, and maternal adaptation during pregnancy. Emphasis is placed on hormonal control of reproduction and this is the basis for understanding contraceptives, infertility, and current reproductive techniques.

Course description: In this course, the student will be introduced in detail to the topics related to human and male reproduction and how the reproductive system works in this field and its importance.

Outline (17 hours):

- 1- General biology: (biological rhythms, how the main hormones of male and female function, characteristics of hormonal function including secretion pattern, function of receptors, etc.)
- 2 Biology of female reproduction: components of the female reproductive system and the function of each part, changes in the female reproductive system during the hormonal cycle, hormonal control of ovarian function, gametogenesis, embryogenic development of the female reproductive system, and the role of hormones in it with age, changes in function (Puberty, menopause...) and environmental factors that affect the evolution of gonads.
- 3- Male reproductive biology: components of male reproductive system and function of each part, hormonal control of testicular function, gametogenesis, comparison of gametogenesis in male and female, embryogenic evolution of male reproductive system and role of hormones in changing the structure and function of reproductive system Men in relation to age (puberty, sexual development, old age).
- 4 Gamete transfer and fertilization: sperm transfer in the male system and the role of each fluid component, transfer of sperm from the vagina to the fallopian tube, laying and fertilization process (including the role of the acrosome, shingles)
- 5- Implantation and placenta formation: The process of implantation and decidualization of the endometrium, histological structure of the tissue and changes in the function and structure of the placenta during pregnancy and the function of human placental hormones.
- 6 Fetal development: The pattern of normal fetal growth during pregnancy, the use of FL, CRL, weight, and other criteria used to determine the age of development and health of the fetus and the ethical issues of working with the fetus and common fetal abnormalities and factors.
- 7- Birth and lactation: Hormonal adaptation during pregnancy (including physiological and histological changes), normal delivery process and its hormonal control (role of fetus, placenta, and uterus), histological changes of breast, and the role of various hormonal hormones.

8- Social issues in human reproduction: existing treatments for infertility and social and moral issues Infertility treatments, main causes and social and biological consequences of sexually transmitted diseases.

Main References of the Course: Williamson Pregnancy and Childbirth Spiroff Female Hormones and Other Reliable, up-to-date sources (Latest Edition)

Course Name: Health Economics Management

Prerequisite or concurrent: Principles of management and its application in midwifery

Number of credits: 1 credit Credit type: theoretical

General Purpose of the course: Familiarity with health economics, health and development, economics and markets of health care, allocation of resources for health and health care, and setting priorities in health care.

Course Description: This course helps students in evaluating health services and estimating costs, as well as in management planning for the development and delivery of new services, as well as in identifying service delivery priorities.

Outline: (17 hours):

- 1- Introduction to health economy (definition of health economics, health, general goals, and equality)
- 2- Health and development (health and growth, health and health costs)
- 3- Economy and health care markets (supply and demand, factors affecting demand and balance, intervention and reduction of welfare, full competition and fair distribution of assets)
- 4- Financing health care (current spending model in developing countries, features of a favorable health financial system)
- 5- Allocating resources for health and health care
- 6- Calculating health benefits
- 7- Financial and economic evaluation of health care projects
- 8- Determining and adjusting priorities in health care
- 9- Organizing health services and decentralization of health system and payment systems
- 10- Measuring and improving efficiency in health care

Main course references:

Health Economics for Developing Countries - Latest Edition

- and other similar sources (latest edition)

Student evaluation methods in different areas:

Active attendance in class - completing homework - evaluation at the end of the semester

Course Name: Client and Patient Education

Prerequisite or concurrent: Pregnancy and Delivery (2) - Health 3 and 4

Number of credits: 1 credit Credit type: theoretical

The general purpose of the course: students will learn the principles of learning, educational process, tools, technology and educational methods, factors affecting education as well as types of education in different diseases and problems and different ages of clients or patients.

Course Description: This course helps students to become familiar with the principles of learning, process, tools, and types of educational methods and to teach them to clients and patients in order to maintain and improve their health and recovery.

Outline: (17 hours):

- 1- History of patient-client education -Patient-client rights movement -Necessity of patient-client education in maintaining and promoting health and prevention of disease and recurrence of disease-Improvement and adaptation to permanent disorders-Therapist and caregiver duty-Patient-self-care duty and psychology of the patient.
- 2- Principles and process of learning: types of learning learning theories learning in children learning in adults principles of learning and effective factors and barriers to learning.
- 3- The difference between education and learning The role of the midwife in learning education Designing the educational program and its different stages (determining the need, setting goals, the educational content of cognitive, attitudinal, and psycho-motor domains, and different levels of learning in each, conditions, tools, resources, evaluation).
- 4- Types of teaching methods (historical and modern methods): lecture questions and answers explanatory group discussion role play play project problem solving consulting test method simulation laboratory skills brainstorming case study workshop Panel Symposium Forum (Debate) Seminar Conference Scientific Tour -
- 5- Teaching skills: the role of appearance teacher's voice and expression attention movement question emotional interaction with the learner teacher behavior situations arising from the teaching space environmental factors educational environment (classroom clinic hospital media community and
- 6- Media and teaching aids: Choosing educational tool or media and method of using it poster pamphlet leaflet folder brochure sticker (sticker) tract chart flange graph announcement warning advertisement photo image Divorce Visualizer Chart Map Blackboard Whiteboard Blackboard Advertising Board (Ordinary and Electronic) Demonstration Cards Real Sample and Models Wallpaper Notebook Calendar Calendar Booklet Handbook Booklet Newspaper (Press) Books Visiting the field Scientific tour Audio media Movies Videos Television Computers Machines copied.
- 7- Evaluation: The concept of measurement and evaluation Definition of measurement and test Evaluation objectives Importance and necessity of evaluation Types of evaluation: diagnostic, formative or stage, and comparative or final

Evaluation of midwifery education - evaluation time - evaluation of clients 'and patients' learning.

8- Assessing the patient's capacity and ability to learn - Motivating the patient's education - Psychological factors in the patient's education and the patient's capacity and ability in terms of individual, personality, self-perception, personal adjustment, etc. - Patient education as part of the treatment process -

Education for patients at different stages and ages of life (before birth or fetus, infancy and infancy, infants, young children and adolescents, adolescents, youth, middle-aged and elderly adults) - Education for parents - Education for families in diseases - Education according to different cultures of patients -

Establish effective communication for recommendations to increase the patient's ability - Participate the patient in education - Pay attention to the patient's level of education and skills - Educate the patient about complementary therapies - and alternatives - Patient and family education in cases of death and leading to death - Ethical issues in patient education and related ethical principles and theories - Conscious consent and related forms - Education to society - Research and its importance in patient education, community family

9- Types of education for patients with various diseases, especially gynecological and obstetric diseases - different stages of life that require special education such as marriage, pregnancy, childbirth, breastfeeding, postpartum, family planning, menopause, infertility, cancer, screening, and aging

Main course references:

- 1- Principles of patient education Safavi Mahboubeh Borzoi Tahereh latest edition
- 2- Principles of planning for patient education Siberian Masoumeh latest edition
- 3- Learning process and principles of patient education, Asadi Noghabi Ahmad Ali- Zandi Mitra-Nazari Ali Akbar- Last edition
- 4 Patient Companion Esfahani Mohammad Mehdi Tehran University of Medical Sciences and Health Services Medical Ethics Research Center
- 5- Falvo DR. Effective patient education a guide to increased compliance (last edition). Jones and Bartlett (last edition)
- 6 Authors group Patient teaching reference manual Springhouse (last edition)
- 7 Patient Education for children –teens and parents (last edition). American Academy of Pediatrics (AAP) (last edition)
- and other reliable sources of the day

Student evaluation method in different areas: homework assignment and final exam

Course Name: Nutrition before, during and after pregnancy

Prerequisite or concurrent: principles of mother and child nutrition - Neonatology - Neonatology

Practicum

Number of credits: 1 credit Credit type: theoretical

General Purpose of the course: Familiarity with the importance and application of nutrition in different stages of the fetus, infancy and childhood

Course description: This course helps the student to properly perform the necessary care, nutritional prescriptions and training for the nutrition of pregnant mothers and infants, children and adolescents.

Outline: (17 hours):

- Nutrition around birth and its consequences in infants
- Nutrition before fertilization
- Nutrition in fertilization

Maternal nutrition for intrauterine growth and growth restriction

Pregnancy nutrition and fetal disease hypothesis

Nutrition in high-risk pregnancies

placenta as a feeding unit

- The effect of nutrition on infant development
- Breastfeeding in infants and preterm infants
- Nutrition in premature infants after discharge from the hospital

The effect of nutrition of pregnant adolescent mothers on the baby

The effects of complementary nutrition and artificial nutrition in future diseases of the child

Main course references:

- 1- Helping breastfeeding mothers felicity savage king- latest edition
- 2- Breastfeeding Scanner Richard C. Translated by niknafas, Pedram latest edition
- 3- Genetic effects of pregnancy latest edition
- 4- Krause latest edition
- 5 Bhatia J. Perinatal nutrition optimizing infant health and development Deker (last edition)
- 6- Lawrence RA. Lawrence RM. Breast feeding A guide for the medical profession 5th Mosby (last edition)
- 7 dare A. O Donovan M. A practical guide to child nutrition (last edition) .Churchill Livingstone (last edition)
- 8 Royal college of midwives Successful breast feeding (last edition) .Churchill Livingston (last edition)
- 9 Lang S. Breast feeding special care babies (last edition) Bailliere Tindal (last edition)
- 10 Mannel R. MartensPJ. Walker M. International Lactation Counsaltant Association Core curriculum for lactation consultant practice. (Last edition) .Jones and Bartlett (last edition)

- 11 Zigler EE. Lucas A. Moro GE. Nutrition of the very low birth weight infant (Nesthle Workshop serial vol.43 Lippincott Williams and Wilkins (last edition)
- 12 Suskind RM. Tontisiran K. Nutrition, Immunity, and infection Lippincott Williams and Wilkins (last edition)
 - and other reliable sources of the day

Student evaluation method in different areas: homework assignment and final exam

Course Name: Promoting Breastfeeding

Prerequisite: Pregnancy and Delivery 1 and 2 - Maternal, child and reproductive health (health 4)

Number of credits: 1 credit

Type of credit: 0.5 theoretical credit - 0.5 practical credit

General Purpose of the course: - Familiarity with child-friendly hospitals as part of the global strategy

Familiarity with the importance of promoting breastfeeding

Familiarity with the necessary measures to promote breastfeeding

Course Description: This course helps students to become theoretically familiar with how to work in child-friendly hospitals and how to promote breastfeeding, and to apply the relevant measures in practice.

Outline (22 hours):

A: Theoretical (9 hours):

- 1- Child-friendly hospital as a part of the global strategy and related measures
- 2- Communication skills
- 3- Promoting breastfeeding during pregnancy
- 4- Protecting breastfeeding
- 5- Methods of delivery and breastfeeding
- 6- How to transfer milk from breast to infant
- 7- Helping with breastfeeding
- 8- Methods that help breastfeeding
- 9- Milk production
- 10 Infants with special needs
- 11- Infants who are not able to breastfeed
- 12- Conditions of the breast and its tip
- 13- Concerns related to mothers' health
- 16- Problems and diseases related to breast milk
- 17- Using breast milk in various diseases of children
- 18- Questions of mothers and how to answer them and provide solutions
- 19- Continuous support for breastfeeding mothers 20- How to set up a child-friendly hospital

B: Practical (17 hours):

- 1- Observing breastfeeding and helping with breastfeeding and different positions
- 2- Conversation (education and counseling) with pregnant women and their husbands or other family members
- 3- Observing milking by hand and feeding with cups

Main references of the course:

- 1- UNICEF and WHO, translation: Freivar, Khalil-Saedvandian, Susan-Freivar, Maryam-Ministry of Health, Deputy Minister of Health, Population Health Office, Family and Schools
- 2- Educational guide for pregnant mothers for breastfeeding Ministry of Health Population, Family Health Office Mother milk Nutrition Promotion Office
- 3 Breast feeding hand book for physicians American Academy of Pediatrics & American College of Obstet. & Gyn. (last edition)

Course Name: Midwifery and Reproductive Health in Crises and Disasters

Prerequisite or concurrent: Pregnancy and Delivery 3 and 4 - Health 3 and 4 and 5 - Gynecology and

infertility

Number of credits: 1 credit Credit type: theoretical

General Purpose of the course: Familiarity of students with midwifery and reproductive health issues during crises and natural disasters

Course description: This course helps students to get familiar with the important and major topics of midwifery and reproductive health in times of crises and natural disasters, and to know the priorities and emergencies in these situations.

Outline (17 hours):

- Definition of emergency and critical situation
- The stages of an emergency or a critical situation
- The effects of crises and disasters on health
- Reproductive health standards include: Minimum services required Sexual violence Midwifery emergencies Contraception issues Comprehensive reproductive health benefits

Psychological issues and their effects on reproductive health issues

- Providing reproductive health services in crises and disasters
- What is reproductive health?
- History of Reproductive Health Services, Especially for Refugees Reproductive Health Services and Human Rights

Reproductive health emergency services for IDPs and refugees

- Long-term reproductive and sexual health services including:
- Maternal health
- Family planning
- Sexually transmitted diseases
- Sexual and sex-linked violence
- Reproductive and sexual health in adolescents
- Other reproductive and sexual health needs, including: men's participation traditional and harmful practices of society and ...

Main references of the course: selected by the relevant professor or instructor and also:

- Khalili Gh. Shatti M. Izadi F. Disaster and Repdrodukctive Health - Health Ministry (last edition)

Course Name: Midwifery and Reproductive Health in Urban Health

Prerequisite or concurrent: Pregnancy and Delivery 3 and 4 - Health 3 and 4 and 5 - Gynecology and

infertility

Number of credits: 1 credit Credit type: theoretical

General Purpose of the course: Familiarity with midwifery and reproductive health issues in the field of urban health

Course description: This course helps students to get familiar with the important and major topics of midwifery and reproductive health in the field of urban health.

Outline (17 hours):

- Urban health and its importance
- Major issues in urban health
- Reproductive health and urban health
- The role of midwives in reproductive health issues and urban issues
- Reproductive health and various types of urban air pollution, food, water and
- Reproductive health and occupational health issues
- Reproductive health and education of citizens
- Reproductive health and the health of the next generation
- Reproductive health and health of women and girls
- Reproductive health and the role of men
- Reproductive health and children and adolescents and the necessary training in this field
- Reproductive health and urban crises and disasters
- Reproductive health and the role of officials, managers and community leaders
- Other issues in the field of reproductive health related to urban health issues

Main references of the course: selected by the teacher or instructor

Course name: Normal and abnormal pregnancy internship

Prerequisite or concurrent: None Number of credits: 3 credits Type of credit: Practicum

General Purpose of the course: Achieving skills in administration and performing prenatal care in natural and high-risk pregnancies

Course description: This course helps the student to acquire the necessary skills in performing prenatal care for normal and abnormal pregnant mothers and to provide the necessary training, advice and prescriptions for them.

Outline: (153 hours):

Performing prenatal care along with requesting tests and prescriptions, trainings and consultations, and referrals and necessary follow-ups in prenatal clinics of Hospitals affiliated Medical sciences Universities 32 days (4.5 hours per day with 15 minutes of rest) (there is no problem in doing more than what is specified)

Perform 5-10 cases of	Physical examination of	Taking a history and psycho-social and		
ultrasound and other fetal	various organs of the	physical evaluation in 60-55 normal		
health tests and 30 cases of	mother's body and	pregnant women (without		
interpretation and guidance	neurological systems in	complications) with the necessary		
according to their results	about 80 cases (including	training and complete care		
Perform 1-2 cases of NST2-1 conjunctiva, thyroid, heart,		(approximately 1.3 in the first		
case of rollover test and 1-2	lung, breast, leopard, limbs,	trimester, 1.3 in the second trimester		
cases of indirect coombs	etc.	and 1.3 in the third trimester)		
	Prepare an educational	Get a history and psycho-social		
	pamphlet or poster	evaluation and		
	(individual or group)	Physical and performing examinations		
Heart rate hearing with	File and request routine or	and care and requesting tests in 25-30		
Pinard 20 and Doppler 50	necessary tests during	cases of pregnant women with internal		
	pregnancy in 40 cases	diseases and surgery (2-3 cases of heart		
Interpretation of correct	Prescribing licensed drugs	disease, 2-3 cases of diabetic		
guidance based on test results		pregnancy, 2-3 cases of eclampsia, 2-3		
in 50 cases	cases and giving 30 cases of	cases of urinary tract infection, 2-3		
	education and 3	cases of urinary tract infection, 2-3		
	consultations	cases of urinary tract infection)		
Office of Pregnancy Training	Request for 3-3 cases of	Hepatitis, etc., 2-3 cases of preterm and		
Classes 3 cases	complete examination and	term skin, 2-3 cases of negative		
Doing pregnancy counseling	urination in case of	seizures, 2-3 cases of thyroid disease,		
with a couple 2 cases	emergency and need	2-3 cases of other diseases such as		
		respiratory, epilepsy, IUGR, etc.		
Participate in questions and answers and study theoretical topics determined by the instructor				

The main references of the course: the same sources of the theoretical courses of pregnancy and childbirth

Student evaluation method in different areas:

- Active student presence
- Performing assigned tasks and duties
- -Carrying out care related to the client or patient
- End of course exam

Course Name: Normal and abnormal delivery (1) internship

Prerequisite or concurrent: None Number of credits: 2.5 credits

Type of credit: Practicum of childbirth

General Purpose of the course: Achieving the skills of managing labor delivery and postnatal care in natural and case cases in the maternity wards of teaching hospitals

Course Description: This course helps students to acquire the necessary scientific and practical skills in the management of labor delivery and postpartum care in natural and case cases.

Outline: (255 hours):

Students should be responsible for all care and administration of the delivery service, as well as postpartum care in normal and abnormal cases.

26 days in the morning and evening for 10 hours (1 hour of prayer and lunch) (there is no problem to doing more than what is set by the student)

doing more than what is set by the stude	11t <i>)</i>	
Monitoring the condition of the infant	Wearing the right	Note: Half to two thirds of the following
immediately after delivery (opening the	gloves and scrub	should be in cases such as diabetes,
airway, preventing hypothermia,	and using the	preeclampsia, premature rupture of the
stimulating breathing to improve and	equipment	bladder, decolonization and parvia, post
giving Apgar 1 and 5 minutes) 30-30	correctly and	date / post term, cardiac, twin, breech,
cases	opening the pack	dead fetus, IUGR, preterm delivery,
Umbilical cord clamp and physical	correctly and	vacuum, etc. and name of each specific
examination of the baby Vitamin K	providing the	case should be recorded in the summary
injection and monitoring of the bracelet	necessary	that the student writes for each
and taking the effect of the baby's foot	equipment by	individual to later determine if each
35-30 cases	applying the	student has been trained in all cases.
55-50 cases	correct principles	How many cases has the student done?
	of sterilization	
	35-30cases	
Assistance in repairing an episiotomy or	Proper	Participate in pregnancy and childbirth
rupture of 3 cases with the necessary	performance of	preparation classes.
attention and care before, during and after	peripheral and	Physical examinations and leopolding,
the repair (about a classmate)	perineal drop 35-	vital signs 35-30 cases
	30 cases	
	Performing correct	FHR control of at least 130 cases (,
	episiotomy	enough to control labor) including
Proper delivery of the placenta, complete	anesthesia 10 cases	finding the right place, controlling fetal
examination of 30-30 cases	of podendal	pulse with maternal pulse, complete 1-
	anesthesia 1 case	minute control, necessary control
	and assistance with	immediately after contraction, counting

	1 -	and recording, and using internal and external monitoring
_	need for episiotomy 10 cases	Vaginal examination: dilatation, effusion, station, possibly position, cervical position, bladder position and to some extent pelvic examination (70-50 times)
Proper disposal of contaminated consumables and proper collection of non-consumable cases in the relevant places after delivery 30-30 cases	10 cases	Necessary examination and decision to hospitalize the fetus in labor 15 cases of non-pharmacological methods to reduce labor pain
between the newborn after delivery 35-30 cases Prepare an educational pamphlet or poster (individual or group)	cases	Preparing the hospitalized corner for placement in the labor room (clothing, bed, advising to empty the bladder, taking a vein and connecting the serum if necessary, blood sampling and necessary explanations to the delivery room) 20 cases
(including bleeding control, uterine height and consistency, vital signs, delivery awareness every hour to 1 hour) after delivery and correct registration and reporting it to the instructor / midwife of 30-30 cases. Observation of abortion, curettage and cesarean section and assisting in maternal and neonatal care after 1-2 cases	he/she has not seen so far.	Complete management and control of labor (including control of heart sound, control of uterine contractions, nutrition, position, reliable communication and necessary training and emotional support of childbirth, vaginal examination, attention to bladder emptying, helping to relieve pain, prescribing necessary medications and necessary medical supplies. To the questions of the child or his companion, etc.) 50-45 cases, each case for at least 3 hours, of which 6-8 cases are induction.
		Perform amniotomy with all the necessary conditions 10 cases

possibility of re-pregnancy and the time		
and place of subsequent visits) in 30-30		
cases, 1 case of postpartum counseling		
Discharge of the mother by performing	Complete delivery	Diagnosis of delivery time and timely
examinations and giving the necessary	(normal and case)	transfer of labor to delivery room 35-30
training during discharge about herself	35-30 cases	cases
and the baby 4 normal cases and 2-3		
cases		
Participate in questions and answers and study theoretical topics determined by the instructor		

Main course references: The same theoretical course resources as pregnancy and childbirth courses

Student evaluation method in different areas:

Active student attendance - Assignments - Carrying out care related to the patient or client - End of course exam

Course Name: Normal and Abnormal Delivery (2) Internship

Prerequisite or concurrent: None Number of credits: 2.5 credits

Type of credit: Practicum of childbirth

General Purpose of the course: Achieving the skills of managing labor delivery and postnatal care in natural and case cases in the maternity wards of teaching hospitals

Course Description: This course helps students to acquire the necessary scientific and practical skills in the management of labor delivery and postpartum care in natural and case cases.

Outline: (255 hours):

Students should be responsible for all care and administration of the delivery service, as well as postpartum care in natural and abnormal cases.

26 days in the morning and evening for 10 hours (1 hour of prayer and lunch) (there is no problem in doing more than what is set by the student)

	•	
Monitoring the condition of the infant	Wearing the right	Note: Half to two thirds of the
immediately after delivery (opening the	gloves and scrub and	following should be in cases such as
airway, preventing hypothermia,	using the equipment	diabetes, preeclampsia, premature
stimulating breathing to improve and	correctly and	rupture of the membranes, placenta
giving Apgar minutes 1 and 5 minutes)	opening the pack	previa and abruptio, post term, twin
30-30 cases	correctly and	birth, breech, dead fetus, IUGR,
Umbilical cord clamp and physical	providing the	preterm delivery, vacuum, etc. and
examination of the baby, injection of	necessary equipment	name of each specific case should be
vitamin K and supervision of the	by applying the	recorded in the summary that the
bracelet and taking the effect of the	correct principles of	student writes for each individual to
baby's foot 35-30 cases	sterility	later determine if each student has
	35-30cases	been trained in all cases. How many
		cases has the sudent doe?
Assistance in repairing an episiotomy or	Proper performance	Getting a history, physical
rupture of 3 cases with the necessary	of peripheral and	examination of Leopold Getting vital
attention and care before, during and	perineal drop 35-30	signs 30-30 cases
after the repair (about a classmate)	cases	
	Performing correct	FHR control of at least 120 cases (as
Proper delivery of the placenta,	episiotomy	much as necessary for labor control)
complete examination of 30-30 cases	anesthesia 10 cases	including finding the right place,
	of podendal	controlling fetal pulse with maternal
	anesthesia 1 case and	pulse, full 1-minute control, necessary
	assistance with	control immediately after contraction,
	epidural anesthesia 1	counting and recording and using
	case	internal and external monitoring
Manual removal of the placenta and	Diagnosis of the	Vaginal examination: dilatation,

intrauterine examination in the fourth	need for episiotomy	effusion, station, water bag position,
stage 1 case	10 cases	cervical position, bladder position and
stage 1 case	10 cases	
		to some extent pelvic examination (70-
	T ' ' 10	50 times)
Proper disposal of contaminated		Necessary examination and decision to
consumables and proper collection of	cases	hospitalize labor in 15 cases
non-consumable cases in the relevant		
places after delivery 30-30 cases		
Establishing bounding and attachment	Rupture repair 3	Preparing the hospitalized mother for
between the newborn after delivery 35-	cases	the labor (clothing, bed,
30 cases		recommending to empty the bladder,
Prepare an educational pamphlet or		taking blood vessels and serum
poster (individual or group)		attachment, if necessary, blood
		sampling and necessary explanations
		to the center) 20 cases
Establishing maternity comfort	See 5 other cases he/	Complete management and control of
condition and performing fourth stage	she has not seen	labor (including control of heart sound,
controls (including bleeding control,	before	control of uterine contractions,
uterine height and consistency, vital		nutrition, position, communication,
signs, delivery awareness every hour to		trust, training and emotional support of
1 hour) after delivery and correct		childbirth, vaginal examination,
registration and reporting it to the		attention to bladder emptying, pain
instructor / midwife of 30-30 cases.		relief, using various non-
Observing abortion, curettage and		pharmacological methods. In the
cesarean section and assisting in		required cases, answering the
maternal and infant care after 1-2 cases		questions of the mother, etc.) 40-45
		cases, each case for at least 3 hours, of
		which 6-8 cases are induction.
Provide complete postpartum education	Observe and assist in	
to the postpartum ward (including self-	delivery in 6-5 cases	necessary conditions 5 cases
care and personal hygiene, bathing,		
wound care, lucia, nutrition, hygiene in		
urinary defecation, danger signs in		
maternity, urgent referral,		
breastfeeding, vaccination, defecation,		
other feces) Neonatal symptoms, tests		
for screening for diseases leading to		
neonatal retardation, sexual intimacy		
and family planning and relapse, as well		
as the possibility of re-pregnancy and		
the time and place of subsequent visits)		
in 30-30 cases, 1 case of postpartum		
counseling		
Counselling		

Discharge of the mother by performing	Complete delivery	Diagnosis of delivery time and timely	
examinations and giving the necessary	(normal and case)	transfer of labor to delivery room 35-	
training during discharge about herself	30-35 cases	30 cases	
and the baby 4 normal cases and 2-3			
cases			
Participate in questions and answers and study theoretical topics determined by the instructor			

Main references of the course: The same theoretical course resources as pregnancy and childbirth courses

Student evaluation method in different areas:

Active student attendance - Assignments and tasks assigned - Carrying out care related to the client's disease - End of course exam

Course Name: Gynecology and Infertility Internship

Prerequisite or concurrent: None Number of credits: 2 credits Type of credit: Practicum

The general purpose of the course: to acquire skills in diagnosing gynecological diseases and how to manage and treat them, as well as the necessary training and advice. Also, familiarity with how to diagnose and treat infertility and infertility training and advice.

Course Description: This course helps students to acquire the necessary skills in diagnosing and providing related services regarding gynecological diseases as well as infertility problems and conducting counseling and training related to them.

Outline: (102 hours):

Carrying out relevant services for clients and patients with various gynecological and infertility diseases, including diagnosis, care, treatment, prescription, referral, follow-up and training, and necessary consultations in gynecology clinics and infertility centers of gynecological and inpatient training hospitals.

21 days (5 hours a day with 15 minutes of rest) (it is not forbidden to do more than what is set by the student)

Seeing a wet smear under a microscope	instructing in 20 cases	Take a history and
detects it in the above 15 cases		perform physical
		examinations in 60
		cases
Perform and interpret Fren test in 2	Perform counseling in 2 cases	Performing genital
cases		examinations in 60
		cases (including
		external and internal
		examinations)
Perform PCT and observe it under a	Observation of gynecological surgeries in	Breast examination
microscope in 1 case	gynecological operating room 2-3 times a	in 10 cases
	day	
Assistance in performing	Observation and follow-up of 5 infertility	Placement of
hysterosalpingography, hysteroscopy,	cases in infertility clinic (one day)	speculum in 60 cases
colposcopy, laparoscopy, cochlear	Observation, examination and follow-up	
implant, dilatation and cervical cortex	of breast tumors (half a day or a day)	
and endometrium, 1 case each		
Preparation of culture from vaginal	See 35 cases other than cervicitis and	Preparation of
secretions 1 case	vaginitis	cervical smear in 15
		cases
Educate the patient in 25 cases in	Taking a history and performing	Reading and

different cases	examinations and prescriptions and	interpreting the
	requesting tests and necessary follow-up	smear result in 5
	in 35 cases other than cervicitis and	cases
Familiarity with how to diagnose,	vaginitis (within the same 60 cases that	Reading and
manage and treat, care and follow up	we mentioned at the beginning) by	interpreting test
patients who are hospitalized in	mentioning the cases, so the cases will be	results in 20 cases
gynecology surgery for 2 days (at least	clear for the instructor including sexually	
6 different cases)	transmitted diseases, urinary tract	
Breast examination training to the	infections, urinary incontinence, PID,	Diagnosis of
patient in 3 cases	mole and GTN, ectopic pregnancy,	cervicitis and
Interpretation of semen analysis test	cancers, cysts and ovarian masses,	vaginitis in 30 cases
result 1 case	myomas, breast diseases, dysmenorrhea,	
	PMS, abnormal bleeding, amenorrhea,	
Prepare an educational pamphlet or	Infertility, menopausal problems,	
poster	hirsutism	
)Individual or group(
Participate in questions and answers	Preparation of Pap smear, LBC and wet	Prescribe treatment
and study theoretical topics	smear in 15 cases	and write a
		prescription for the
		above 30 cases

Main references of the course: The same theoretical course resources

Student evaluation method in different areas:

Active presence of the student - completing homework and assigned tasks - performing care related to the client or patient - end-of-course exam

Course Name: Maternal, Child and Reproductive Health and Family Planning Internship

Prerequisite or concurrent: None Number of credits: 2 credits Type of credit: Practicum

The general purpose of the course: to acquire skills in providing reproductive health, mother and child and family planning and community health services, which are the main duties of midwives. Also identify problems with these services and provide solutions for them.

Course Description: This course helps midwifery students to perform midwifery services related to reproductive health, mother and child and family planning and health services of the relevant community correctly and with the necessary skills.

Also, it is expected that they can identify the existing problems in providing these services and provide the necessary solutions to solve them.

Outline: (102 hours):

Performing services related to reproductive health, mother and child and family planning, as well as community health services related to the midwifery profession in headquarters and urban health centers, as well as rural and community centers where women attend or study and work along with a problem- solving project.

21 days (5 hours a day with 15 minutes of rest) (it is not forbidden to do more than what is set by the student)

Screening of high-risk	under 5 Child related care section	Family planning:
		ranniy pianining.
	years:	
to a specialist doctor or		
hospital (1-2 cases)		
Request of sonography (2-1	making the medical record for new	Making the medical record for
cases)	clients (3 cases)	new clients 6 cases
Diagnosis of high-risk	Weighing and measuring height and	Physical examination of clients
pregnancies, client education	head circumference of children	
doing special referring and	correctly (10 cases)	
follow-up		
Planning for visit intervals in	Draw the growth curve of child	Perform cervical smear (4 cases
5 cases	correctly on a special card for 10 cases	
Other cases:	Planning visitation intervals for growth	Read the smear answer and
	monitoring for 10 children	interpret it 4 cases
Adolescent health education	Diagnosing any deviations from proper	Family planning consultation(2
and counseling(1 case)	growth and following up the cause by	cases)
	conducting an interview with the	, other types of consultations
	mother, giving the necessary	(3 cases)
	recommendations and possibly the	
	necessary referral to a doctor in 2 cases	

education and counseling of	proper breastfeeding education to the	Changing the method of family
menopause related issues 1	mother (3 cases)	planning by doing the necessary
case		counseling (1 case)

Marriage education and counseling (2-1 cases)	Complementary nutrition education (2 cases) from beginning up to one year old) and up to two years old (2 cases	Providing a variety of appropriate family planning methods to clients, including oral pills, condoms, ampoules, IUDs, etc. by performing examinations and requesting the necessary tests in each case. (each of at least 5 cases)
Sexual function education and counseling (1 case)	Education of Breastfeeding (1 case)	IUD insertion (8-6 cases)
Training of health liaisons in 1 related subject	Teaching proper nutrition to children over 2 years old	Remove the IUD (1 case)
(rural city): includes 4 days	Diagnosis, care and education (1 case of diarrhea 1 in respiratory disease, 1 case of in thrush, 1 in hypoglycemia and 1 in fever)	Individual or group education and administration of family planning (at least 2 cases)
Providing an educational class in a girls' school (1 case)	section of Maternity Care:	Preparation of pamphlets, booklets or educational posters in different parts of the internship
Providing an educational class for women with specific needs in a determined center a subject (1 case)	making the medical record for new clients (2 cases)	Vaccination section:
	Measurement of height, weight and blood pressure (5 cases)	apply the cold chain at the time of vaccination
Visit and provide maternal and child health services in the rural health center	Performing physical examinations and Leopold maneuver (5 cases)	Applying aseptic principles at the time of vaccination
Visiting the headquarter center in the health network and familiarity with the work of collecting health information and monitoring the Vital Horoscope preparation center and its interpretation by the student	Fetal heart sound control and maternal vital signs (5 cases)	Using the correct method of prescribing and injecting different types of vaccines

Providing educational classes	Request for routine pregnancy tests 5	Prescribing and injecting 18
in the mosque for women	cases	vaccines for children out of 3
		vaccines
Visit a center for the elderly	Educate the pregnant mother about self-	Prescribing tetanus vaccine for
and women with disabilities	care in various subjects: nutrition, sleep,	pregnant women (2 cases)
and provide training for them	rest and personal health and sexual	
	relations, danger signs, exercises,	
	pregnancy exercises, etc. 2	
Visiting homes in the city and		
villages with the help of		
liaisons or health workers		

Kindergarten visits and pre-school	Conducting group training for	Vaccination scheduling based
education on child health issues	pregnant mothers with topics	on intervals and type of
	related to pregnancy	vaccine for a child who has
	education(1-2 cases)	started the vaccination
Carrying out a project to solve or	Attention and examination	Vaccination scheduling based
management a health problem (1 case	about oral health of pregnant	on intervals and type of
that (mentioned in the contents)	women and referral to the	vaccine for a child who has
	dentist in necessary cases(2	not started his or her
	cases)	vaccination (2cases)
In addition to any other community	Tips on tetanus vaccination (2	Identify contraindications to
health program that is relevant to the	cases)	the vaccination
area of study.		
Participate in questions and answers	Breast examination and	Diagnosis and correct
and study theoretical topics determined	examination to prepare for	implementation of differences
by the instructor	breastfeeding (1 case)	vaccine in children and adults

Main course references: The same theoretical course resources

Student evaluation method in different areas:

Active presence of the student - doing homework and assigned tasks - performing care related to the client or patient -participating in final exam

Course Name: Neonates who need intensive care internship

Prerequisite or concurrent: None Number of credits: 1 credit Type of credit: Practicum

General Purpose of the course: To develop skills in students in order to provide the necessary care for various problems and diseases of infants admitted to the neonatal ward and neonatal intensive care unit.

Course Description: This course helps midwifery students to diagnose abnormalities in newborns and also to provide the necessary care for sick and high-risk newborns in the relevant departments.

Outline: (51 hours):

Necessary care of high-risk neonates in the neonatal ward and NICU (NICU6-3 days depending on available facilities)

During 9 days (6 hours a day with 15 minutes of rest) (there is no problem in doing more than what is set by the student)

Performing neonatal examination at	High risk baby care (RDS or	physical examination of term
the time of discharge 1 case	jaundice)	infants involves: examination of
Working with pulse oximeter and		head and neck and fontanelles,
ventilator devices, 1 case each	Ability to work with ambo bag and laryngoscope (1 observation 1 case of neonatal CPR	face, chest, heart, abdomen, spine, color, pelvic joint, Babinski test, genital tract, fetal age tests, reflexes and nerve tests (10 cases)
Training on vaccination, nutrition	Premature baby care in 1 case	
and care of the infant, growth of the		
baby, urine and feces ,crying of the	Baby care in the incubator (2	
baby, change of clothes and diaper,	cases)	
newborn danger signs, necessary	Caring for a baby with a	
tests, umbilical cord care, fever and	disease and a complication (2	
seizures, etc.	cases)	
Preparation of an educational		education for breastfeeding(2
pamphlet (individual or group)		cases)
Familiarity with the process of CPR	Calculation of medication and	Perform 1 case Lavage
of the baby and performing it on the	execution of doctor's	By inserting a catheter
model (1 case observation or	prescription in 3 cases	
helping for CPR if possible)		
· · · · · · · · · · · · · · · · · · ·	intravenous feeding and electrolytes (3 cases)	Perform the gavage by inserting a gastric catheter (1 case)
	Blood sampling from a vein or sole of the foot (3 cases)	

observe and help a blood	One case of consultation if	Anthropometric and weight
transfusion (1 case)	possible	measurements (2 cases)
Caring and working in the ICU for	Teaching the mother about how	
3-6 days	to give medicine and feed the	
Participate in questions and	baby (1 case)	
answers and study theoretical topics		

Main references of the course: The same theoretical course resources

Student evaluation method in different areas:

Active presence of the student - doing homework and assigned tasks - performing care related to the client or patient - participating in final exam

Course Name: Medical and surgical diseases in pregnancy internship

Prerequisite or concurrent: -Number of credits: 1 credit Type of credit: Practicum

The general purpose of the course: to develop students' skills to diagnose internal diseases and surgery in pregnant mothers and how to manage and treat them, as well as possible complications of these diseases on pregnant women, fetuses and infants and how to prevent and reduce these complications and necessary training and counseling for patients.

Outline: (51 hours)

Performing examinations, examining the course of diagnosis and treatment, as well as performing necessary care, education and counseling in pregnant women suffering from diseases and internal problems and surgery

Course description: This course helps midwifery students to get familiar with the causes, diagnosis, treatment and complications of internal diseases and surgery associated with pregnancy, and can perform the necessary prenatal care for these patients during pregnancy and diagnose referrals and refer to specialists. And do the relevant centers and do the necessary follow-ups, trainings and consultations.

During 9 days (6 hours a day with 15 minutes of rest) in at least 15 different pregnant patients (there is no problem in doing more than the prescribed cases)

Hoca cases)	
Analysis and recognition of	Prepare an accurate history of
changes in important paraclinical	15 pregnant women with
tests in pregnancy and its	internal diseases and surgery
interpretation	
Quickly obtain the required	Perform their complete physical
information from the patient's	examinations
record	
Provide a correct and accurate	Diagnosis of abnormalities in
report of the patient's condition	history and examination
to the instructor	
Diagnosis and observation,	Request the necessary tests as
management and treatment of	needed
internal emergencies and surgery	Analysis of abnormalities of
in pregnancy	important paraclinical trials
	Analysis and recognition of changes in important paraclinical tests in pregnancy and its interpretation Quickly obtain the required information from the patient's record Provide a correct and accurate report of the patient's condition to the instructor Diagnosis and observation, management and treatment of internal emergencies and surgery

Main course references: The same theoretical course resources

Student evaluation method in different areas:

Active presence	of the student	- doing homework	and assigned task	ks - performing	care related to the
client or patient	- participation i	n final exam			

Course name: Management and its application in midwifery practicum/ internship

Prerequisite or concurrent: None

Number of credits: 1 credit Type of credit: Practicum

The general purpose of the course: Introduction to management in the profession of midwifery and application of its principles in managerial situations, especially in the fields related to midwifery employment.

Course description: This course helps students to become familiar with the principles of management in the midwifery profession and the environments in which midwives work and to apply them practically "in improving the conditions of the workplace and in order to improve the quality of midwifery services to clients and patients."

Outline: (51 hours):

Performing managerial duties, especially in departments related to midwifery, such as delivery, postpartum, obstetric and infant's wards, prenatal and gynecological clinics, and hospital management offices.

9 days (6 hours a day with 15 minutes of rest) (there is no problem in doing more than the prescribed cases)

(4.505)		
A: Problem solving (in	A: Execution of the problem solving	A: Preparation of a written project
the form of evaluating the	process (based on the best solution	about the structure or clinic related to
achievement of set goals)	selected in the second week)	midwifery work:
B: Designing a monthly	B: Providing a standard of care based	-1Physical structure in the form of a
staff shift schedule	on the education of the department (in	sketch
	the form of educational pamphlets,	-2Preparing a list of medical and
	educational posters, etc.)	non-medical devices
A: Assessing the status of	A: Implement the principles of taking	-3Status of hospitalized patients in
provided care to patients,	over the ward through:	terms of: medical diagnoses, care
especially critically ill	1- Attending the ward on time	needs, educational needs
patients	2- Going to the bed of patients	-4Average number of patients
	3- Paying attention to all written and	admitted, admitted and discharged
	oral reports of the head of the ward	-5Section routines including:
	about patients	How to accept patients
	4- Paying attention to the equipment	How to discharge patients
	and drugs delivered in each shift	- How to write reports and
D: Carrying out activities	D: Implement the principles of section	examinations and tests
related to the guidance of		How to educate the patient
students and human	via:	How to implement care and
resources of the ward	1- Delivery of patients t	treatment processes
	2-Delivery of special tools, medicines	Arrangement of file sheets
	and equipment	- How to do consultations
	•	•

	3- Registration of all reports related to patients according to the correct principles of reporting	How to request tests How to check the doctor's instructions? How to complete the cardex
patient companions, service personnel and	the department and gaining knowledge	How to enter information into the computer 6 -Preparing a list of names of doctors, residents, interns And nursing and midwifery students, etc. and the days of their presence 7 -Preparing a list of commonly used drugs in the ward and their care and prescribing tips 8 -Preparing a list of tools and equipment available in the section code trailer and its available drugs 9 -Preparing a list of diagnostic methods (Tests), how to perform them and necessary preparations for patients (to perform them) 10 -Preparing a list of names of nursing and midwifery staff and other staff and the number of each of them in each work shift 11 -Awareness of the protection and security systems of the sector and its
F: Proper cooperation with all departments in appropriate circumstances Participate in questions	of them in each shift G: Preparation of daily statistics of patients H: Preparing the patient's nutritional list and controlling and supervising its.	control 12 -Awareness of the methods of dividing human resources in the sector 13 -Preparing a list of technical and installation problems B: Presenting the above written report and fixing its problems
and answers and study theoretical topics determined by the instructor	including: Tests, warehouse equipment, etc. J: Anticipation of all equipment and drugs needed for other shifts in the morning shift or before the holidays	A: Designing a problem-solving process, in case of one of the existing problems of the department as:

K: Controlling the presence of	1 -Expressing the problem clearly
students in the ward and submitting	2 -Explaining the reasons for the
the necessary report to the instructor or	formation of the problem
head of the ward	3 -Determining measurable goals
L: Active participation in the clinical	(with measurable criteria)
rounds of supervisors through:	4 -Providing possible solutions
1- Visiting the physical environment	5 -Selecting the best solution
of the ward, equipment and facilities	according to the conditions and
2- Investigating the performance of	facilities available in the section
nursing and midwifery staff and their	B: The daily division of human
communication	resources and nursing and midwifery
3- Investigating how to record	students according to its principles
information and reports	1 -For nursing and midwifery students
4- Studying the clinical condition of	in coordination with the relevant
patients and providing services to them	instructor and Head of Department
5- Preparing a list of errors in each of	2 -For the relevant nursing and
the above cases	midwifery staff in coordination with
6- Providing appropriate reminders to	the Head Department
the department officials	3 -Installing it on the bulletin board or
7 -Follow-up to eliminate the	registering it in a special office
mentioned problems	
M: Proper cooperation with the staff	
of the department with the necessary	
 conditions	

Main course references: The same theoretical course resources

Student evaluation method in different areas:

Active presence of the student - doing homework and assigned tasks - performing care related to the client or patient - participation in final exam

Course Name: Radiology, sonology and electrology in obstetrics and gynaecology practicum

Prerequisite or concurrent: None

Number of credits: 1 credit Type of credit: Practicum

The general purpose of the course: students will get familiar to perform, read, see and interpret paraclinical methods such as radiology and sonography, as well as how to use electrocardiograph and physiotherapy in midwifery. Also familiarity with the devices used in midwifery diagnoses such as fetal monitoring devices, ultrasound and tennis, etc.

Course description: This course helps students to become familiar with the application of paraclinical methods such as radiology, sonography, electrocardiography and physiotherapy in midwifery cases and, as far as possible, recognize or interpret their results and apply them to midwifery clients. Also learn to use devices such as monitoring, sonography and TENS

Outline: (51 hours):

Observing and performing radiology, especially pelvic ultrasound of pregnant and non-pregnant women for 8 days in the sonography and radiology department of a teaching hospital. Maternity ward as well as with TENS machine and exercises and movements related to pain relief, especially in the pelvis, knee, neck, neck and massage to reduce pain or urinary incontinence and relaxation along with exercises related to pregnancy and postpartum period.

9 days (6 hours daily with 15minutes rest) including 9 days of sonography and radiology and 3 days of electrology and physiotherapy

Note: (There is no problem in doing more than what is set by the student)

observe different parts of the laser	monitoring using the relevant device	observe and interpret simple
device and how it works		radiographs of the pelvis
observe a variety of heating and	observe different parts of ultrasound	Observe and interpret radiographs of
cooling devices and methods to	devices	the pelvis and uterus with
relieve pain		radiocontrast agent
Observe different types and	Finding the uterus, bladder and	Recognize high quality radiological
sections of TENS devices	ovaries of women (pregnant and	images from a low one
	non-pregnant) as well as the head,	
	chest, abdomen, limbs, fetuses and	
	placenta on ultrasound	
Use of the TENS device at least	Measurement of biparietal diameter,	observe different sections of
once, especially to relieve the pain	femoral length, head circumference	radiology devices
of dysmenorrhea, labor pain and	and abdominal circumference using	
urinary incontinence	sonography	
Giving exercises to relieve back	Interpretation of ultrasound images	visit different sections and how to do
pain, especially in the neck, back	of pregnant and non-pregnant uterus	radiotherapy
and pelvis, as well as knee pain to	and fetus and placenta	
patients (pregnant or postpartum)		

Giving exercises during pregnancy	Observation of biophysical profile	Fetal auscultation with sonicaid
	testing for fetus	(Doppler)
Giving exercises after childbirth	Observing different parts of	Observe different parts of the
and giving Kegel exercises	electrocautery and freezing devices	monitoring device
	(cryo)	
Observe and perform various types	Perform or observe an	Installing and replacing paper,
of massage therapy to relieve pain	electrocautery and freeze the cervix	preparing the monitoring device
and for relaxation		
Participate in questions and		
answers and study theoretical		
topics		

Main course references: The same theoretical course references

Student evaluation method in different areas:

Active presence of the student - completing homework and assigned tasks - performing care related to the client or patient - end-of-course exam

Season Four Curriculum evaluation Undergraduate course (BSc) Midwifery

Evaluation of the curriculum of the undergraduate course of midwifery

1) The purpose of evaluation

The purpose of the evaluation is to identify the strengths and weaknesses of the educational program as well as the strengths and weaknesses in the implementation of the educational program in educational centers.

2) Implementation of the evaluation

In universities, the Office of Supervision and Evaluation under the supervision of the Deputy for Education and the corresponding offices within the faculties continuously monitor the implementation of the course. The relevant educational group is also required to submit a report at the end of each academic year on the number of admitted students, offered courses, grades and educational status of students and, quality of education of professors, books, purchased equipment and existing problems, etc. Also, the officials of the faculty and the department together with the evaluation unit, after reviewing the report and the results of the evaluation, should provide the necessary solutions and take action to eliminate the shortcomings and problems.

3- Steps and how the evaluation is performed

During the study period, evaluation of theoretical and practical courses and internships are done regularly by the office / committee of evaluation and monitoring. Summary of students' opinions about the courses and the quality of their professors' education and interaction in each semester also the opinions of the group manager during the year, will be the criterion for selecting professors providing the courses. At the end of the course and at the time of graduation, the quality questionnaire of the course will be completed by the graduates and after analysis the Office of Supervision and Evaluation will sent them for design in the group council. At the end of the semester, the instructors of the course will comment on the content of the course, how to present it, the time of presentation, the required facilities, how the students will participate, how to conduct the internships, etc. in a questionnaire. Graduates will be questioned after their studies and especially after employment.

4) Frequency of evaluation

- A- Evaluation by students on a semester basis and also at the end of the study period
- B- Evaluation by teachers at the end of the semester and also for each study period at the end of the final exam
- C- Internal evaluation by the educational group every 2-3 years
- D- External evaluation every 2-3 years
- E- Evaluation by supervision and evaluation of the faculty every 2-3 years
- F Evaluation by the Office of Supervision and Evaluation of the University and the Ministry every 4 years
- G- Evaluation by the Board of Examiners and planning midwifery evaluation every 4 years
- H- Reporting on the quality of work and activities of graduates every 4 years
- 5) Suggested indicators for program evaluation
- A- The level of student satisfaction with the study, the managers and officials, the quality of the professors, the method of presenting the materials, the quality of the internships and the conditions of the clinical educational environment, educational and research facilities, etc.
- B- The employment of the graduates after graduation and the relation between their job and specialty and the manager's satisfaction with their work and also the satisfaction of their clients with the completion of the questionnaire
- C- Graduate satisfaction with the acquired abilities and the possibility of employment and earning income and solving the problems of life and society in various relevant dimensions
- D- Professors' satisfaction with the quality of management officials and management structure, quality and quantity of educational and research facilities regarding the field, quality of students' work and interact method with them and professors' opinion about the educational program and courses and implementation method
- E- The quality of theoretical education (including complete and up-to-date teaching of content, field and specialty of the relevant professor, teaching method and students' learning, etc.) as well as the quality of clinical education (including complete and sufficient training of clinical skills and minimum basic skills, field and specialty of the relevant professor, facilities and equipment and number of monthly and daily clients of the relevant ward or clinic, possibility of independent work by student and instructor, number and ratio of instructor to student, maximum ratio of instructor to student in childbirth 1: 3, In prenatal and gynecological diseases and health and infants it is 1 to 4 and in other units it is 1 to 5 {Note: it can be less but it cannot be more}.)
- F- For the annual admission of 20-25 undergraduate students, it is necessary to have a hospital or hospitals with at least 250 normal deliveries per month and also to have specialized departments of internal medicine and surgery and gynecological diseases and infertility.
- G- Also, the existence of the approved midwifery educational group (s) in the organizational chart of the faculty

- H- Evaluation of the quality of the final clinical test in the fields of childbirth, prenatal, gynecology, maternal and child health and fertility and family planning and infants and children
- I- Adequacy of library resources, online computer facilities, and classes equipment's like audio-visual equipment and extracurricular activities for midwifery students
- J- Assessment of the performance and adequacy of the minimum basic midwifery skills that students should acquire during internships and at the end of the course.
- K- Welfare, recreational, sports and cultural facilities for faculty members and students
- 6) Program success criteria for each evaluation index

In all the above cases, after evaluating the result of 90% and above, indicating the desired quantity and quality and obtaining the result 90-80% indicates a relatively "good" result and 80-70% indicates an acceptable result and less than 70% indicates an unacceptable result and the inability to train the students.

First appendix

Midwifery Oath

God, I will give you endless praise that you bestowed me blessings and that you have accompanied me, as a midwife, on the path of creation.

In the presence of the Holy Quran¹*, I swear that [like Hazrat Fatima (GPBUH)² as my role model] I will always be diligent in understanding the knowledge of creation and fertility and the desired survival of human beings with love and faith until the last moment of my life, I will be faithful to the essence of creation and protecting it is my serious duty. With the purity of heart and soul that is necessary for trustworthiness, I will use the skills of my hand and mind with the support of science, to completely protect and guide the growth and development and birth of the pearl of creation until puberty and during her fertility and after.

I also swear, I adhere to the holy rules of Islam* and the divine laws, and by observing the sanctity and spirituality of the profession and the ethics and rules of the midwifery profession, I avoid low desire of soul and protect the rights and secrets of clients and patients according to the holy sharia and the laws of the Islamic Republic of Iran.

O God, [in the name of Zahra (GPBUH)]

Give me

Beauty,

Guidance.

Satisfaction and

Trustworthy and help me to fulfill my responsibilities in my career, without error, which I promise Amen

Date

name and signature of the graduate

^{*} Religious minorities will say the name of their book instead of the Quran and the name of their religion instead of Islam and may not read the phrases in parentheses. 2. God's peace be upon her

Final Appendix of the Undergraduate (BSc) of Midwifery Training Program (Practicum/Internships):

Table of contents of procedures and the work that midwifery students need during their various internships of their studies.

(Note: the department head must provide the sheets related to the table of contents of the internship procedures to the relevant instructor by in each internship. Also, the relevant instructor must install these sheets in internship location and / or male them available to the students.)

List of student activities related to Principles and techniques of nursing, midwifery and working in operating and delivery room Practicum (course code 16)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2 days out of 12 days must be in the	
		instructor	operating room	
1			Oral care	
2			Make the closed and open hospital bed	
3			Moving the patient from the bed to the wheelchair and the stretcher and vice versa	
4			giving the position to the patient (different types)	
5			Giving active and passive exercises	
6			Control the blood pressure and record it	
7			Breathing control and recording	
8			Pulse control and recording	
9			Temperature control (A. O. R) and its recording	
10			admission of the patient in the ward	
11			Control I, O and recording it	
12			Inserting a washbasin and taking a stool sample (simple and culture)	
13			Urine sampling (simple, culture)	
14			Enema	
15			Bladder wash	
16			Urine glucose, acetone and protein control	
17			Cold and dry compresses (non-sterile)	
18			Hot and dry compresses (non-sterile)	
19			Isolated patient care (respiratory, contaminated blood, contaminated feces))	
20			Feeding (through the mouth)	
21			Stomach catheterization	
22			Gavage	
23			Lavage	
24			Bladder catheterization	
25			Giving the oxygen (catheter, mask, cannula)	

	Suction of mouth, nose, throat in
26	different ways and knowing how
26	to work with suction device
	How to place the airway and care
27	for artificial passages and observe
2,	
	placing the endotracheal tube Performing 5 cases of bondage,
28	sterile compress
29	Washing infected wounds
30	Removing sutures
31	Bandage
32	Oral medication
	Giving medication or
33	intramuscular injection in 5 cases
	giving medication or intravenous
34	injection in 5 cases
	giving medication or
35	subcutaneous injection in 2 cases
36	Intradermal test in 1 to 2 cases
	Inserting intravenous catheter and
	serum and its care and how to
37	calculate and combine drugs in 5
	cases
38	Eye, ear, nose drops
39	Suppository (vaginal, rectal)
40	Taking a blood sample
	Connecting blood and its
41	derivatives and related care
	Patient discharge, patient and
42	family education
43	Educating the patient
44	Bathing in bed (full / with patient
44	assistance)
45	Bathing in shower and bathtub
46	Massage the pressure points
	Washing the head and taking care
47	of the infected head
48	Perineal wash

	for the patient
	Bathing the infant (can be done in
50	infant internship)
	Measuring the height, weight,
51	head and chest circumference of
	the neonate
	Observing the professional
52	behavior of the midwife in the
	delivery room
F2	Preparing the patient for the
53	operating room
54	Sterilizing equipment and fabrics
34	(Autoclave and oven)
55	hand washing
56	Wearing scrubs and mask
57	Wearing gloves
	observing all types of pliers,
58	needles and cloth accessories
	related to surgery
59	Preparing the patient for the
39	operating room
60	Disinfecting the room
61	Intraoperative care
62	Postoperative care
	observing recovery room
63	equipment
	Admission of the patient from the
64	recovery room
	Observing the operating room
65	environment and how to work in
	it observing different types of
	observing different types of operations (at least 2 cases of
66	cesarean section)
-	Caring for the corpse
67	Observing the environment and
	equipment of labor and delivery
68	and postpartum room
	observing how to work with
69	Bennett device

	Observing how to work with
70	infant CPR units or devices in
	delivery room
	Recording the care provided and
71	the patient's condition in the files
	and booklets
	Checking the patient's file in
72	terms of different parts
	Checking the types of files in the
73	ward
	Participating in questions and
	answers and study theoretical
74	topics determined by the
	instructor

List of student activities related to semiology and Physical Examinations Practicum (course code 39)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2 days out of 12 days must be in the	
		instructor	operating room	
1			How to deal with the patient and start	
			interview	
2			Get a complete history of the disease	
2			References:	
			General characteristics, main complain	
			recent discomfort description, medical	
			records, personal and social records,	
			family records and a review of differe	
			body systems (at least for 10 different	
			patients)	
3			Description of the general condition o	
			the patient including: level of	
			consciousness, patient's condition at the	
			time of examination, degree of patient	
			cooperation	
4			Height, weight and body mass index	
			(BMI)	
5			Examination of vital signs	
6			Examination of the skin and appendag	
			including:	
			Color, humidity, heat and. skin, color,	
			Consistency, shape and angle of nails,	
			distribution of hair loss	
7			Investigation of lymph nodes, periphe	
			and central pulses, JVP jugular veins	
8			Head and neck examination including	
8			Skull, face (in terms of shape,	
			symmetrical fracture, depression,	
			protrusion), trachea, thyroid Ear examination includes:	
9			Outer ear, eardrum, inner ear, whisper	
			-	
			test	

	Throat and nose examination includin
10	Throat and nose examination including
	sinuses
	Eye examination including:
11	
	External and internal structure of the e
	vision, eye movements
12	Examination of the lungs (anterior and
	posterior) including: Observation: Speed, rhythm, depth an
	Observation: Speed, rhythm, depth an respiratory effort, chest shape and
	movement
	Touch: Determination of sensitive area
	Evaluation of respiratory dilation,
	Evaluation of tactile vibration
	Accuracy: Evaluation of different part
	the lung
	Hearing: Recognition of normal lung
	sounds and their location (vesicular,
	bronchocular, bronchial and tracheal),
	abnormal lung sounds, crackle,
	wheezing, ronca, friction Rob) and
	transferable speech sounds
	Breast examination:
13	Observe: size, symmetry, shape and
	appearance
	Breast skin, color, thickening or edem
	Venous, nipples
	Touch: Tissue consistency, Sensitivity
	Nodules, Secretion, Examination of
	axillary and supra lymph nodes and
	infraclavicle
14	Cardiac examination:
14	Observe: PMI and change in pregnanc
	PMI
	Touch: PMI, change in pregnancy PM
	Hearing: Normal sounds (S1 and S2) a
	abnormal sounds (EJ, OS, S4, S3), typ
	of systolic and diastolic murmurs,
	physiological changes of cardiac heari
	during pregnancy

15	Abdominal examination:
	Observe: Abdominal skin, umbilicus,
	abdomen shape,
	Enlarged limb symmetry, peristalsis,
	Aortic pulse
	Hearing: BS Vascular sounds
	Percussion: normal sounds (tympanun
	resonance) and abnormal sounds
	Touch: superficial touch, deep touch,
	liver, spleen, kidney, tenderness, rebot
	tenderness, CVA tenderness, pain
	examination, ascites evaluation,
	appendicitis evaluation
16	Examination of limbs and spine
	including:
	Examination of the joints of the limbs
	including: observation of color and
	swelling, touch of swelling and heat,
	restriction of movement, examination
	the spine: observation of shape, chang
	in curvature and protrusion, touch of
	sensitivity, restriction of movement
17	Psychological examination: mental sta
	level of consciousness, cranial nerves,
	motor and sensory nerves, reflexes
18	Prepare the final report of the history a
	examinations
19	Participate in questions and answers a
	study theoretical topics determined by
	instructor

List of student activities related to Normal Pregnancy Practicum (course code 28)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2 days out of 12 days must be in the	
		instructor	operating room	
1			-Taking history and physical examination from 25 normal pregnant women (5 observations and 15 performed) with providing necessary education	
			-Brief acquaintance with 5 high risk pregnancies within 12 days	
2			Taking a history and psycho-social and physical evaluation from 5 cases of abnormal pregnant women including various internal diseases and surgery associated with pregnancy such as heart, diabetes, renal urinary tract infection, anemia, perinatal anemia, perinatal ectopic pregnancy, menopause, ectopic pregnancy and 10 times Leopold maneuver	
3			Perform 15 complete physical examinations of different organs o the body (heart, lungs, thyroid, anemia, kidneys, breasts, lower limbs)	
4			scribing authorized and essary drugs ng pregnancy	

	10 pregnant women
5	uest 1-2 times U / A, U / C
	ng pregnancy
6	uest 1-2 case of
	rasound
-	ee NST, 1-2 times
7	
8	Perform 1-2 rounds of
	Roll over test
9	Interpretation and correct
	guidance
	based on the results: 10 cases
10	Interpretation and correct
	guidance
	based on the results of ultrasound
	or fetal evaluation
	tests:3 cases
11	Examination of at least
	10 lower extremities for edema
	and its extent and varicose veins
12	Teaching and explaining a
	case of fetal movement testing
13	Providing different trainings
	during pregnancy in 2 different
	subjects (in class or individually)
14	Interpretation and correct
14	guidance based on clients' test
	results in 10 cases
15	Participate in group discussions an
	study the theoretical topics

List of student activities related to the Neonatology Practicum (course code 35)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2days out of 12 days must be in the	
		instructor	operating room	
1			10 cases of physical examination	
1			of the infant in terms of health	
			examination: examination of head	
			and neck and fontanelles, face,	
			chest, heart, abdomen, abdomen,	
			spine, color, pelvic joint, Babinski	
			test, genital tract, fetal age tests,	
			reflexes and nerve tests	
2			Training on 2 cases of breastfeeding	
3			Perform a gavage case by	
3			inserting a catheter	
4			Perform 1 case of lavage by	
			inserting a catheter	
5			Weight measurements in 5 cases	
6			Bathing, covering clothes and	
6			keeping the baby warm 2 cases	
7			Healthy care of neonates in 3	
,			cases	
8			Premature neonates' care in 2	
			cases	
9			Working with the incubator and caring	
			for the neonates in the incubator in 3 cases	
1.0			Working with phototherapy	
10			device 1 case and getting familiar	
			with other devices and devices	
11			High risk neonates care (RDS	
1.1			jaundice)	
12			Calculation of medication and	
12			execution of doctor's prescription	
			in 3 cases	
13			Connect serum 1 case	
14			Perform anthropometric	
1+			measurements 8 cases	
15			Teaching the mother about how to	
			give medicine to the baby 1 case	
16			See 1 consultation and if possible	
			1 consultation	
17			Performing neonatal discharge	
			examination 1 case	

18	Vaccination training, nutrition and care of the baby, growth of the baby, urine and feces and crying of the baby, change of old clothes, newborn danger signs, necessary tests, umbilical cord care, fever and seizures, etc. 2 cases	
19	Familiarity with neonatal CPR devices and its application on case modeling and observing 1 case of neonatal CPR	
20	How to work with incubator and care of the device 1 case	
21	How to work with a phototherapy device and do 1 thing	
22	Participate in questions and answers and study theoretical topics	

List of student activities related to the Pediatrics Practicum (course code 37)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2days out of 12 days must be in the	
		instructor	operating room	
1			Examination of the child (head,	
1			neck, ears and nose, heart and	
			lungs, abdomen, liver and spleen,	
			genitals, and organs, urinary	
			system, etc.)	
2			Evaluation of VIS symptom in children	
			and its differences with adults	
3			Differences in laboratory criteria such as Hb, HCT, FBS, Ca, Mg,	
			P, urinary alkaline	
			phosphatazokratinin in children	
			and adults	
			Examination of the child's	
4			development from the point of	
			view of the nervous system and	
			related examinations and tests:	
			study of mental retardation due to	
			coronary heart disease, etc.,	
			seizures in children and its	
			manifestations, academic failure	
			due to brain problems, etc.	
5			Examination of the child for anemia	
6			Examination of the child for	
U			growth (growth retardation,	
			abnormal growth spurt)	
7			ECG training from children	
			(ECG)	
8			Participate in questions and	
			answers and study theoretical	
			topics	
9			Training parents to perform the correct EEG (in terms of time and sleep	
			deprivation before exercise)	
10			Teaching children and parents	
10			proper nutrition, exercise and play	
11			Education, evaluation and	
			recommendation of correct	
			vaccination in children in	
			different situations and conditions	

12	Observation, examination, diagnosis of symptoms and	
	manifestations, administration	1
	and follow-up of common	ı
	infectious and non-infectious	ı
	diseases in children, including at	ı
	least 15 cases of various diseases	ı

List of student activities related to the Internal Medicine and Surgery Practicum (course code 44)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2 days out of 12 days must be in the	
		instructor	operating room	
1			Prepare an accurate history of the patient	
2			Perform a complete physical	
_			examination of the patient Diagnosis of abnormalities in history and	
3			examination	
			Request the necessary tests as needed	
4			Analysis of abnormalities of important paraclinical tests	
-			Analysis and recognition of changes in	
5			important paraclinical tests during	
			pregnancy and its interpretation	
6			Quickly obtain the required information from the patient's file	
			Provide a correct and accurate report of	
7			the patient's condition to the instructor	
			Diagnosis and observation of urine and	
8			treatment of internal emergencies and	
			surgery	
9			Diagnosis of common diseases of	
			various organs of the body that follows	
			according to history and physical	
			examination, request, interpretation of tests and paraclinics, as well as	
			observation and evaluation of their	
			treatment, including the necessary care,	
			providing the necessary training,	
			recognizing relevant drugs and relying	
			on Their importance in conceiving	
			during 12 days includes 20 internal cases	
			(2-3 cases from each device) and 5	
			surgical cases including:	
10			Cardiac (mitral stenosis, mitral prolapse,	
			increase and decrease of arterial blood pressure, coronary artery disease)	
			Vascular (heart failure, arterial	
11			embolism, thrombophlebitis, varicose	
			veins, etc.)	
10			Respiratory (pneumonia,	
12			tuberculosis, asthma, pulmonary	
			embolism, restrictive and	
			obstructive diseases, etc.)	
			Common blood diseases	
13			(including iron deficiency,	
			thalassemia, bleeding diseases,	
			marassenna, biecung uiseases,	

	etc.
15	Common glandular diseases (such as diabetes, hypothyroidism and hyperthyroidism, Sheehan syndrome, Cushing, etc.) Neurological diseases (headaches, orilogay, CVA)
16	epilepsy, CVA) Common urinary tract diseases (including renal and urinary tract infections, acute and chronic renal failure, glomerulonephritis and urinary stones, etc.)
17	Common infectious diseases such as rubella, hepatitis, herpes, etc.
18	Gastrointestinal (such as wounds, infections, diarrhea, constipation, bleeding, indigestion, etc.)
19	Skin diseases and allergies (hives, itching, fungus, viruses and parasites, pigmentation, etc.)
20	Motor and collagen (carpal tunnel syndrome, major bone fractures, joint relaxations, rheumatic fever, rheumatoid arthritis, lupus, bone and joint infections)
21	Common surgeries (including appendicitis, heart surgery, stones, varicose veins and hemorrhoids, thyroid, breast, etc.
22	Participate in questions and answers and study theoretical topics selected by the instructor

List of student activities related to the Forensic Medicine in Midwifery Practicum (course code 24)

Student Name: Date: **Internship Place: Instructor Name** Row Date of activity and, Date of Name of activities Quality and instructor's signature observation, 12 days (4.5 hours daily) considerations signature of the 2 days out of 12 days must be in the instructor operating room Observation and examination of girls, 1 women and children who have suffered from aberrations, problems and sexual issues Observation and examination of forensic 2 clients who have performed a criminal abortion Observation and examination of forensic 3 clients who have become pregnant illegally (proof of pregnancy) Observation and examination of Hymen 4 See how to prove the identity of the child 5 and to whom it belongs Examine women who have been abused 6 or modestly abused Observation and examination of children 7 who have been abused Performing examinations of forensic 8 clients to determine and prove pregnancy Familiarity with how to examine sexual victims, clinical signs and symptoms of 9 rape, how to sample and send to the laboratory if necessary Record one of your examinations as a midwife and reporting in accordance 10 with legal regulations and standards Participate in a hearing on a midwife's 11 misconduct case Record one of your examinations as a midwife and reporting in 12 accordance with legal regulations and standards Participate in questions and answers and study theoretical 13 topics selected by the instructor

List of student activities related to the Normal Delivery Practicum (course code 30)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	13 days (10 hours daily)	considerations
		signature of the	(1hour for rest and pray)	
		instructor		
		mstructor	taking a history, physical examination	
1			and doing Leopold maneuvers, and	
			getting vital signs in 20 cases	
2			FHR control in at least 100 cases (for	
			labor control) including finding the	
			correct location, checking the	
			fetal pulse with the mother's	
			pulse, complete one-minute	
			control, necessary control	
			immediately after contractions	
			and counting and getting familiar	
			with the monitoring devices	
3			Vaginal examination: dilatation,	
			effacement, station, fetal position,	
			cervical position, amniotic sac position and to some extent pelvic examination	
			(12-20 times)	
			Necessary examination and deciding to	
4			hospitalize mother in labor in 3 cases	
5			Preparing the mother for labor room	
3			(clothing, bed, recommending to empty	
			the bladder, taking a vein and serum, if necessary, blood sampling and necessary	
			explanations) in 10 cases	
			Complete management and control of	
6			labor (including control of heart sound,	
			control of uterine contractions, nutrition,	
			position, trustworthy relationship,	
			necessary education and emotional	
			support during childbirth, vaginal examination, attention to bladder	
			emptying, helping to relieve pain using	
			various methods, prescribing medication	
			and fluid) in necessary cases, answering	
			the questions of the mother) in 24	
			cases for at least 3 hours, 1-2 of them are	
			receiving induction Perform amniotomy by observing all the	
7			necessary conditions in 1 case	
			Diagnosis of delivery time and timely	
8			transfer the mother to delivery room in	
			4-10 cases	
9			Wearing gloves	
			and scrub and using	
			the equipment correctly and opening the pack	
			correctly and providing the necessary	
L			torrestry and providing the necessary	

	T T		
		equipment by applying the correct	
		principles of sterilization for 4-10 cases	
10		Properly perform prepping and draping	
10		for 4-10 perineal	
11		Performing correct episiotomy	
11		anesthesia in one case	
10		Diagnosing the need for episiotomy and	
12		observing 5 cases of anesthesia and 5	
		cases of episiotomy	
1.0		Observe 5 cases of deliveries	
13			
14		Assistance 4 deliveries	
14		Complete delivery in 4-10 cases	
15		Complete derivery in 4-10 cases	
		Monitoring the condition of the infant	
16		immediately after delivery (opening the	
		airway, preventing hypothermia,	
		stimulating breathing to improve Apgar	
		score 1 and 5 minutes after birth in 4-8	
		cases)	
		Umbilical cord clamp	
17		and physical examination	
		of the baby, Vitamin	
		K injection and monitoring of the	
		bracelet and monitoring of the baby's	
		foot print in 4-10 cases	
18		Assistance in repairing episiotomy or	
10		rupture in one case with necessary	
		attention and care before, during and	
		after repair	
19		Proper placenta delivery and complete	
17		examination of 4-10 cases	
20		Proper disposal of contaminated	
20		consumables and proper collection of	
		non- consumables in the relevant places	
		after delivery 4-10 cases	
21		Establishing bonding and attachment	
21		between the newborn and mother after	
		delivery in 4-10 cases	
22		Provide comfort for patient and control	
22		the fourth stage (including hemorrhage	
		control, checking uterine height and	
		consistency, vital signs, patient's	
		orientation every quarter to one hour)	
		after delivery and correct registration	
		and reporting it to the instructor /	
		midwife in10-4 cases	
22		Provide complete postpartum education	
23		to the mother before delivery (including	
		self-care and personal hygiene, bathing,	
		wound care, lucia, nutrition, hygiene in	
		defecation and urination, dangerous	
		signs in the mother and the need for	
		immediate referral, breastfeeding,	
		vaccination, neonatal vaccination), Other	
		neonatal care, neonatal danger signs,	
		tests for screening for diseases leading to	
		neonatal retardation, sexual intimacy and	
		family reunification, as well as the	
	1	,, 400 11011 400 410	

	possibility of re-pregnancy and the time 24and place of subsequent visits) in 4-10 ca25ses.
24	Discharge of the mother and performing the necessary examinations and educate mother during discharge about caring herself and her child in 2 cases
25	Participate in group discussion and study the theoretical topics

List of student activities related to the Normal and Abnormal Delivery Practicum (course code 32)

Row	Date of activity and,	Date of observation,	Name of activities	Quality and
	instructor's signature	signature of the	13 days (10 hours daily)	considerations
		instructor	(1hour for rest and pray)	
			Note: Half to two thirds of the following	
1			should be used in cases such as diabetes,	
			preeclampsia, premature rupture of the	
			amniotic membranes, post-date / post term	
			and previa, cardiac disease, twin, breech,	
			fetal death, IUGR, preterm delivery,	
			vacuum, etc. The name of each case should	
			be recorded in the summary that the student	
			writes for each individual so that it can be	
			determined later whether each student has	
			been trained in all cases and how many	
			cases he / she has done in each case. (There	
			is no problem in doing more than the	
			amount predicted by the student.)	
2			Taking a history, physical examination and	
_			doing Leopold maneuver, and vital signs in	
			20 cases FHR control, at least in 100 cases (as much	
3			as necessary for labor control) including	
			finding the right place, compering fetal	
			pulse with maternal pulse, complete 1	
			minute control, necessary control	
			immediately after contraction, counting and	
			recording and using monitoring	
			Vaginal examination: dilatation,	
4			effacement, station, position, cervical	
			position, bladder position and pelvic	
			examination (12-20 times)	
			Necessary examination and decision to	
5			hospitalize the fetus in labor 3 cases	
			Preparing the mother for the labor	
6			(clothing, bed, advising to empty the	
			bladder, taking blood vessels and serum if	
			necessary, and taking blood and giving	
			necessary explanations to the delivery) in	
			10 cases	
7			Complete management and control of labor	
/			(including control of heart sound, control of	
			uterine contractions, nutrition, position,	
			trustworthy relationship, necessary	
			education and emotional support during	
			childbirth, vaginal examination, attention to	
			bladder emptying, helping to relieve pain	
			using various methods, prescribing medication and fluid) in necessary cases,	
			answering the questions of the mother)	
			in 24 cases for at least 3 hours, 1-2 of them	
			are receiving induction	
		1	are receiving induction	<u> </u>

8	Complete management and control of labor
0	(including control of heart sound, control of
	uterine contractions, nutrition, position,
	reliable communication and necessary
	training and emotional support of
	childbirth, vaginal examination, attention to
	bladder emptying, helping to relieve pain
	using various non-pharmacological
	methods, Necessary fluid therapy in the
	required cases, answering the questions of
	childbirth or companion, etc.) 24 cases of
	each case for at least 3 hours, of which at
	least 2-3 cases are induction and half of
	them are cases
	Diagnosis of delivery time and timely
9	transfer the mother to delivery room in 4-10
	cases
	Wearing the right gloves and scrub and
10	using the equipment correctly and opening
	the pack correctly and providing the
	necessary equipment by applying the
	correct principles of sterility and protection
	of 4-10 cases
	Properly perform prepping and draping for
11	4-10 perineal
	Perform correct episiotomy anesthesia in 2
12	cases and pudendal anesthesia in 1 case, if
	possible
	Diagnosing the need for episiotomy and
13	performing episiotomy 2 cases
	performing episiotomy 2 cases
	Observe Labor management in almost 5
14	cases
	Complete delivery of 4-10 cases
15	, ,
16	Monitoring the condition of the infant
10	immediately after delivery (opening the
	airway, preventing hypothermia,
	stimulating breathing to improve Apgar
	score 1 and 5 minutes after birth in 4-8
	cases)
17	Umbilical cord clamp and physical
1/	examination of the infant, injection of
	vitamin K and supervision of the bracelet
	and taking the foot print in 4-10 cases
10	Episiotomy 2 cases with necessary attention
18	and care before, during and after repair
10	Proper placenta delivery and complete
19	examination of 4-10 cases
20	Manual removal of the placenta and
20	intrauterine examination in the fourth stage
	in 1 case
	Proper disposal of contaminated
21	consumables and proper collection of non-
	consumables in the relevant places after
	delivery in 4-10 cases
	Establishing bonding and attachment
22	between the newborn after delivery in 4-10
	petween the newborn arter derivery in 4-10

	cases
	Provide comfort for patient and control the
23	fourth stage (including hemorrhage control,
	checking uterine height and consistency,
	vital signs, patient's orientation every
	quarter to one hour) after delivery and
	correct registration and reporting it to the instructor / midwife in 4-10 cases.
24	Provide complete postpartum education
21	before transferring the mother to the
	postpartum ward (including self-care and
	personal hygiene, bathing, wound care,
	lucia, nutrition, hygiene in defecation,
	danger signs in the mother need
	Immediate referral, breastfeeding, fecal and
	urinary incontinence, vaccination, other
	neonatal care, neonatal symptoms, tests for
	screening for diseases leading to
	retardation, sexual intimacy and family
	planning, and return of menstruation and
	the possibility of re-pregnancy and the time
	and place of subsequent visits in 4-10 cases
	and consultation with a couple 1 case
2.5	Observing abortion, curettage and cesarean
25	section and helping the mother and baby
	after care
	Discharge of the mother and performing the
26	necessary examinations and educate mother
	during discharge about caring herself and
	her child in 2 cases
	Participate in group discussion and study
27	the theoretical topics

List of student activities related to the Gynecology and infertility Practicum (Lesson code 54)

instructor's signature observation, signature of the instructor Taking history and performing physical examinations in 55-50 cases Observation of genital tract examinations in 50 cases (including external and internal examinations) Performing genital examination in 10 cases Performing genital examination in 2 cases Breast examination in 10 cases Placement of speculum in 50 cases Placement of speculum in 50 cases Placement of speculum in 50 cases Preparation of cervical cell smears preparation in 2 cases Preparation of cervical smear in 15 cases interpreting the smear result in 5 cases Request the necessary tests in 25 cases Reading and interpreting test results in 15 cases Preparation of cervicitis and vaginitis in 25 cases Prescribing, treating and prescribing for the above 25 cases Prescribing, treating and prescribing for the above 25 cases counseling in 2 cases Observation of gynecological surgeries in gynecological operating room 2-3 times a day Observation and follow-up of 3 infertility cases in infertility clinic (one day) Observation, examination and follow-up of breast tumors (half or 1 day) Sec 25 cases other than cervicitis and vaginitis (within the same 50 cases we mentioned earlier) by mentioning the names of the	Row	Date of activity and,	Date of	Name of activities	Quality and
Signature of the instructor		instructor's signature	observation,	24 days (4,30 hours daily)	considerations
instructor Taking history and performing physical examinations in 55-50 cases Observation of genital tract examinations in 2 cases Performing genital examinations in 50 cases (including external and internal examinations) Placement of speculum in 50 cases Observation of cervical cell smears preparation in 2 cases Preparation of cervical smear in 15 cases reparation of cervical smear in 15 cases Request the necessary tests in 25 cases Reading and interpreting test results in 15 cases Prescribing treating and prescribing for the above 25 cases raining 25 cases raining 25 cases observation of gynecological surgeries in gynecological operating room 2-3 times a day Observation and follow-up of 3 infertility cases in infertility clinic (one day) Observation, examination and follow-up of preast tumors (half or 1 day) See 25 cases other than cervicitis and vaginitis Taking a history and performing examinations and prescriptions, requesting tests and following up on 25 cases other than services and vaginitis Taking a history and performing examinations and prescriptions, requesting tests and following up on 25 cases other than services and vaginitis (within the same 50 cases we mentioned		C			
Taking history and performing physical examinations in 55-50 cases Observation of genital tract examinations in 2 cases Performing genital examinations in 50 cases (including external and internal examinations) 4 Observing breast examination in 2 cases Breast examination in 10 cases Placement of speculum in 50 cases Placement of speculum in 50 cases Observation of cervical cell smears preparation in 2 cases Preparation of cervical smear in 15 cases Preparation of cervical smear in 15 cases Preparation of cervical smear in 15 cases Request the smear result in 5 cases Reading and interpreting test results in 15 cases Reading and interpreting test results in 15 cases Diagnosis of cervicitis and vaginitis in 25 cases Prescribing, treating and prescribing for the above 25 cases training 25 cases training 25 cases counseling in 2 cases Observation of gynecological surgeries in gynecological operating room 2-3 times a day Observation, examination and follow-up of 3 infertility cases in infertility clinic (one day) Observation, examination and follow-up of breast tumors (half or 1 day) See 25 cases other than cervicitis and vaginitis Taking a history and performing examinations and prescriptions, requesting tests and following up on 25 cases of the same 50 cases we mentioned					
1 examinations in 55-50 cases			instructor	Taking history and performing physical	
Performing genital examinations in 50 cases (including external and internal examinations) Question Performing genital examination in 10 cases	1				
Performing genital examinations in 50 cases (including external and internal examinations) Performing genital examination in 10 cases	2			_	
cases (including external and internal examinations) 4	2				
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requesting tests and following up on 25 cases other than services and vaginitis (within the same 50 cases we mentioned	20			Taking a history and performing	
cases other than services and vaginitis (within the same 50 cases we mentioned	20				
(within the same 50 cases we mentioned					
l'					
earner) by mendolling the names of the				,	
cases so it will be clear for the instructor,					
has the student has trained which cases?					
Sexually Transmitted Infections, Urinary					

	Tract Infection, Urinary Incontinence,
	PID, Mole and GTN, Ectopic Pregnancy,
	Cancers, Cysts and Ovarian Masses,
	Myoma, Abnormal Diseases,
	Dysmenorrhea, PMS, Abnormal
	Bleeding, Amenorrhea, Infertility,)
	Preparation of wet smear in 15 cases
21	
22	observing and diagnosing a wet smear
22	under a microscope 15 cases
23	Perform and interpret Fren test in 2 cases
	Perform PCT and observe it under a
24	microscope in 1 case
	Observation and assistance in
25	hysterosalpingography, hysteroscopy,
	colposcopy, laparoscopy, cochlear
	implantation, dilatation and cervical
	curettage and endometrium 1 case each
	Preparation of culture from vaginal
26	secretions 1 case
	Educate the patient in 25 cases in
27	different cases
	Familiarity with the diagnosis,
28	management and treatment, care and
	follow-up of patients admitted to the
	gynecology department for 2 days (at
	least 6 different cases)
	Breast examination training to the
29	patient
	spermogram test 2 cases
30	
21	Interpretation of semen analysis test
31	result 1 case
22	Participating in discussions and study
32	theoretical topics

List of student activities related to the Maternal, child, and reproductive health, and family planning Practicum (course code 48)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	24days (4.5 hours daily)	considerations
		signature of the		
		instructor		
			Family planning:	
1			Creating a file for new clients 4 cases	
2			Physical examination of clients	
3			Cervical pap smear 10-5 cases	
4			Read the pap smear answer and interpret it 2 cases	
5			Observe 1 family planning consultation	
6			Do other consultations 2 cases	
7			Providing a variety of appropriate family planning methods to clients, including oral contraception pills, condoms, ampoules, IUDs, etc., each of at least 5 cases by performing examinations and requesting the necessary tests in each case.	
0			Inserting IUD 4-2 cases	
9			Removing IUD one case	
10			Individual or group training and management of family planning classes at least one case	
11			Prepare an educational pamphlet, booklet or poster in family planning 1 case	
			Vaccination department:	
12			Use of cold chain in the use of vaccines	
13			Applying aseptic principles when vaccinating	
14			Using the correct method of prescribing and injecting different types of vaccines	
15			Prescribing injections of 12-18 vaccines for children from each type	

	of vaccine 2 -3 cases
	Prescribing tetanus vaccine for
16	pregnant women 2 cases
	Vaccination scheduling based on
17	intervals and type of vaccine for a
	child who has started his or her
	vaccination schedule correctly and
	on time 2 cases
	Vaccination scheduling based on
18	intervals and type of vaccine for a
	child who has not started his or her
	vaccination schedule correctly and
	on time 2 cases
10	Identify contraindications to
19	vaccination
20	Diagnosis and correct
20	implementation of the difference
	between the dose and type of vaccine
	in children and adults
	Child care department under 5 years:
21	File formation for new clients 3
21	cases
22	Weighing and measuring the height
22	and head circumference of children
	correctly 10 cases
23	Draw the growth curve correctly on
23	a special card for 10 cases
24	Planning visitation intervals for growth monitoring for 10 children
	Diagnosing deviations from proper
25	growth and following up the cause
	by conducting an interview with the
	mother and giving the necessary
	recommendations and possibly the
	necessary referral to a doctor in 2
	cases
26	Teaching proper breastfeeding to the
20	mother 3 cases
27	Complementary nutrition education
	2 cases up to one year old 2 cases up
	to two years old
28	Training on bottle-feeding in 1 case
	Teaching proper nutrition to children
29	over 2 years old
30	Diagnosis, perform care program
30	and education in 1 case of diarrhea, 1
	case of respiratory disease, 1 case of
	case of respiratory disease, I case of

	thrush, 1 case of hypoglycemia and 1
	case of fever
	Pregnant mother care
	department:
24	Creating a file for new clients 2
31	cases
32	Measurement of height, weight and
	blood pressure 5 cases
33	Physical examinations and Leopold
	maneuver 5 cases
34	Fetal heart rate control and maternal
- 1	vital signs 5 cases
35	Request for routine pregnancy tests 5
	cases
36	Educating the mother about self-care
	in various subjects: nutrition, sleep,
	rest and personal health and sexual
	relations, danger signs, pregnancy
	exercises and or postpartum
	education 2 cases
37	Conducting group training for
	pregnant mothers 1-2 cases related to
	pregnancy and postpartum training
38	Attention and examination about oral
	and teeth health of pregnant women
	and referral to the dentist in
	necessary cases 2 cases
39	Guidance on tetanus vaccination 2
	cases
40	Breast examination and check it to
	prepare for breastfeeding 1 case
41	Screening high-risk mothers and
·-	referral to a specialist doctor or
	hospital 1-2 cases
42	Request for ultrasound 1-2 cases
43	Diagnosis of high-risk pregnancies,
	risk training, referral h cases and
	follow-up
44	Planning for reference intervals in 5
··	cases
45	Participate in questions and answers
.5	and study theoretical topics

List of student activities related to the Normal and Abnormal Delivery Internship (course code 76,77)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	52days (10 hours daily)	considerations
		signature of the		
		instructor		
		mgt detal	Note: Half to two thirds of the	
			following should be in cases such	
			as diabetes, preeclampsia,	
			premature rupture of the	
			membranes, placenta previa and	
			placenta abruptio, postdate / post	
			term, cardiac diseases, twin,	
			breech, dead fetus, IUGR, preterm	
			delivery, vacuum, etc. and name	
			of each specific case should be	
			recorded in the summary that the	
			student writes for each individual	
			to later determine if each student	
			has been trained in all cases.	
			How many cases has the student	
			?done	
1			Getting a history, physical	
			examination of Leopold Getting	
			vital signs 50 cases FHR control of at least 120 cases	
2			(as much as necessary for labor	
			control) including finding the	
			right place, controlling fetal pulse	
			with maternal pulse, full 1-minute	
			control, necessary control	
			immediately after contraction,	
			counting and recording and using internal and external monitoring	
			Vaginal exam: dilatation,	
3			effusion, station, water bag	
			position, cervical position,	
			bladder position and to some	
			extent pelvic examination (30-50	
			times) Necessary examination and	
4			decision to hospitalize labor in 8	
			cases	
5			Preparing the hospitalized mother	
5				

	for the labor (clothing, bed,	
	recommending to empty the	
	bladder, taking blood vessels and	
	serum attachment, if necessary,	
	blood sampling and necessary	
	explanations to the center) 30	
	cases	
6	Complete management and	
	control of labor (including control	
	of heart sound, control of uterine	
	contractions, nutrition, position,	
	communication, trust, training	
	and emotional support of	
	childbirth, vaginal examination,	
	attention to bladder emptying,	
	pain relief, using various non-	
	pharmacological methods. In the	
	required cases, answering the questions of the mother, etc.) 40-	
	45 cases, each case for at least 3	
	'	
	hours, of which 6-8 cases are induction	
7	Perform amniotomy with all the	
	necessary conditions 5 cases	
8	Diagnosis of delivery time and	
	timely transfer of labor to delivery room 10-20cases	
	Wearing the right gloves and	
9		
	scrub and using the equipment	
	correctly and opening the pack	
	correctly and providing the	
	necessary equipment by applying	
	the correct principles of sterility	
	10-20 cases	
10	Proper performance of peripheral	
10	and perineal drop 10-20 cases	
1 1	Performing correct episiotomy	
11	anesthesia 10 cases of podendal	
	anesthesia 1 case and assistance	
	with epidural anesthesia 1 case	
	Diagnosis of the need for	
12	episiotomy 10 cases	
13	Episiotomy repair 10 cases	
14	Rupture repair 3 cases	
	See 5 other cases he/ she has not	
15	See 5 other eases ne/ she has not	

	1 1 f	
	seen before	
16	Observe and assist in delivery in	
	6-5 cases	
17	Full delivery 10-20 cases	
18	Monitoring the condition of the	
18	infant immediately after delivery	
	(opening the airway, preventing	
	hypothermia, stimulating	
	breathing to improve and giving	
	Apgar minutes 1 and 5 minutes)	
	30-30 cases	
19	Umbilical cord clamp and	
19	physical examination of the baby,	
	injection of vitamin K and	
	supervision of the bracelet and	
	taking the effect of the baby's foot	
	35-30 cases	
20	Assistance in repairing an	
25	episiotomy or rupture of 3 cases	
	with the necessary attention and	
	care before, during and after the	
	repair (about a classmate)	
21	Proper delivery of the placenta,	
	complete examination of 10-20	
	cases	
22	Manual removal of the placenta	
	and intrauterine examination in	
	the fourth stage 1 case	
23	Proper disposal of contaminated	
	consumables and proper	
	collection of non-consumable	
	cases in the relevant places after	
	delivery 10-20 cases	
24	Establishing bounding and	
	attachment between the newborn	
	after delivery 35-30 cases	
25	Establishing maternity comfort	
	condition and performing fourth	
	stage controls (including bleeding	
	control, uterine height and	
	consistency, vital signs, delivery awareness every hour to 1 hour)	
	after delivery and correct	
	registration and reporting it to the	
	instructor / midwife of 10-20	
	Cases. Provide complete postpartum	
26	Provide complete postpartum	
	education to the postpartum ward	
	(including self-care and personal	

	hygiene, bathing, wound care,	
	lucia, nutrition, hygiene in urinary	
	defecation, danger signs in	
	maternity, urgent referral,	
	breastfeeding, vaccination,	
	defecation, other feces) Neonatal	
	symptoms, tests for screening for	
	diseases leading to neonatal	
	retardation, sexual intimacy and	
	family planning and relapse, as	
	well as the possibility of re-	
	pregnancy and the time and place	
	of subsequent visits) in 30-30	
	cases, 1 case of postpartum	
	counseling	
27	Observing abortion, curettage and	
	cesarean section and assisting in	
	maternal and infant care after 1-2	
	cases	
28	Discharge of the mother by	
	performing examinations and	
	giving the necessary training	
	during discharge about herself	
	and the baby 4 normal cases and	
	2-3 cases	
29	Participate in questions and	
	answers and study theoretical	
	topics determined by the	
	instructor	

List of student activities related to the Normal and Abnormal Pregnancy Internship (course code 75)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	32days (4.5 hours daily)	considerations
		signature of the		
		instructor		
			Get a history and psycho-social	
1			evaluation and	
			Physical and performing	
			examinations and care and	
			requesting tests in 25-30 cases of	
			pregnant women with internal	
			diseases and surgery (2-3 cases of	
			heart disease, 2-3 cases of	
			diabetic pregnancy, 2-3 cases of	
			eclampsia, 2-3 cases of urinary	
			tract infection, 2-3 cases of	
			urinary tract infection, 2-3 cases	
			of urinary tract infection)	
			Hepatitis, etc., 2-3 cases of	
			preterm and term skin, 2-3 cases	
			of negative seizures, 2-3 cases of	
			thyroid disease, 2-3 cases of other diseases such as respiratory,	
			epilepsy, IUGR, etc.	
			Taking a history and psycho-social and	
2			physical evaluation in 60-55 normal	
			pregnant women (without complications)	
			with the necessary training and complete care (approximately 1.3 in the first	
			trimester, 1.3 in the second trimester and	
			1.3 in the third trimester)	
3			Physical examination of various	
			organs of the mother's body and	
			neurological systems in about 80	
			cases (including conjunctiva,	
			thyroid, heart, lung, breast,	
			leopard, limbs, etc.	
4			Prepare an educational pamphlet or poster (individual or group)	
			File and request routine or	
5			necessary tests during pregnancy	
			in 40 cases	
			Prescribing licensed drugs during	
6			pregnancy in 50 cases and giving	
			30 cases of education and 3	
			consultations	

7	Request for 3-3 cases of complete examination and urination in case of emergency and need	
8	Perform 5-10 cases of ultrasound and other fetal health tests and 30 cases of interpretation and guidance according to their results	
9	Perform 1-2 cases of NST2-1 case of rollover test and 1-2 cases of indirect coombs	
10	Doing pregnancy counseling with a couple 2 cases	
11	Heart rate hearing with Pinard 20 and Doppler 50	
12	Interpretation of correct guidance based on test results in 50 cases	
13	Office of Pregnancy Training Classes 3 cases	
14	Participate in questions and answers and study theoretical topics determined by the instructor	

List of student activities related to the Gynaecology and infertility Internship (course code 78)

instructor's signature observation, signature of the instructor Take a history and perform physical examinations in 50-55 cases Performing genital examinations in 50-55 cases Performing genital examinations in 50 cases (including external and internal examinations) Breast examination in 10 cases Placement of speculum in 50cases Preparation of cervical smear in 15 cases Reading and interpreting the smear result in 5 cases Reading and interpreting the smear result in 5 cases Reading and interpreting test results in 20 cases Requesting tests 25 cases Diagnosis of cervicitis and vaginitis in 30 cases Prescribe treatment and write a prescription for the above 30 cases instructing in 20 cases 10 Perform counseling in 2 cases Perform counseling in 2 cases 11 Observation of gynecological surgeries in gynecological operating room 2-3 times a day Observation and follow-up of 5 infertility cases in infertility clinic (one day) Observation, examination and follow-up of breast tumors (half a day or a day) See 35 cases other than cervicitis and vaginitis Taking a history and performing examinations and requesting tests and necessary follow-up in 35 cases other than parabitis and vaginitis.	Row	Date of activity and,	Date of	Name of activities	Quality and
Take a history and perform physical examinations in 50-55 cases Performing genital examinations in 50 cases (including external and internal examinations) Breast examination in 10 cases Placement of speculum in 50cases Preparation of cervical smear in 15 cases Reading and interpreting the smear result in 5 cases Reading and interpreting test results in 20 cases Reading and interpreting test results in 20 cases Requesting tests 25 cases Diagnosis of cervicitis and vaginitis in 30 cases Prescribe treatment and write a prescription for the above 30 cases instructing in 20 cases Perform counseling in 2 cases Perform counseling in 2 cases Observation of gynecological surgeries in gynecological operating room 2-3 times a day operating room 2-3 times a day observation and follow-up of 5 infertility cases in infertility clinic (one day) Observation, examination and follow-up of breast tumors (half a day or a day) See 35 cases other than cervicitis and requesting tests and necessary follow-up in 35 cases other than		instructor's signature	observation,	21days (5 hours daily)	considerations
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	the instructor inc	
		ases, urinary tract
	infections, urina	•
	PID, mole and G	<u> </u>
	pregnancy, cance	•
	ovarian masses,	
	diseases, dysmer	
	abnormal bleeding	_
		pausal problems,
	hirsutism	
18	Observation and	<u> </u>
		n infertility clinic
	(one day)	
19		ap smear, LBC and
	wet smear in 15	
20	Seeing a wet sme	
		cts it in the above
	15 cases	
21	Perform and inte	rpret Fern test in 2
	cases	
22		d observe it under
	a microscope in	
23	Assistance in per	
	hysterosalpingog	* * * .
	hysteroscopy, co	
	laparoscopy, coc	<u> </u>
		rvical cortex and
	endometrium, 1	
24		ulture from vaginal
	secretions 1 case	
25		ent in 25 cases in
	different cases	In any Assalta
26		how to diagnose,
		at, care and follow
	up patients who	are hospitalized in
	gynecology surg	gery for 2 days (at
	least 6 different	- I
27	Deposit avamination	training to the patient
21		naming to the patient
	in half a day	f saman analysis
28		f semen analysis
	test result 1 case	
29	Participate in	questions and
	answers and	study theoretical
	topics	

List of student activities related to the Practicum in Maternal, child, and reproductive health, and family planning Internship (course code 79)

Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	12 days (4.5 hours daily)	considerations
		signature of the	2days out of 12 days must be in the	
		instructor	operating room	
			Family planning:	
1			Making the medical record for new clients 6 cases	
2			Perform cervical smear (4 cases)	
3			Read the smear answer and	
			interpret it 4 cases Family planning consultation (2)	
4			cases)	
			, other types of consultations (3 cases)	
5			Changing the method of family planning by doing the necessary counseling (1 case)	
6			Providing a variety of appropriate family planning methods to clients, including oral pills, condoms, ampoules, IUDs, etc. by performing examinations and requesting the necessary tests in each case(each of at least 5 cases)	
7			IUD insertion (8-6 cases)	
8			Remove the IUD(1 case)	
9			Individual or group education and administration of family planning (at least 2 cases)	
10			Preparation of pamphlets, booklets or educational posters in different parts of the internship Vaccination section:	
11			apply the cold chain at the time of vaccination	
12			Applying aseptic principles at the time of vaccination	
13			Using the correct method of prescribing and injecting different types of vaccines	

	Duosanihing and injecting 10	
14	Prescribing and injecting 18 vaccines for children out of 3	
	vaccines for children out of 3	
	Prescribing tetanus vaccine for	
15	pregnant women (2 cases)	
	Vaccination scheduling based on	
16	intervals and type of vaccine for a	
	child who has started the	
	vaccination	
	Vaccination Vaccination scheduling based on	
17	intervals and type of vaccine for a	
	child who has not started his or	
	her vaccination (2cases)	
	Identify contraindications to the	
18	vaccination	
	Diagnosis and correct	
19	implementation of differences	
	vaccine in children and adults	
	under 5 Child related care	
	section years:	
- 0	making the medical record for	
20	new clients (3 cases)	
21	Weighing and measuring height	
21	and head circumference of	
	children correctly (10 cases)	
22	Draw the growth curve of child	
22	correctly on a special card for 10	
	cases	
23	Planning visitation intervals for	
23	growth monitoring for 10 children	
24	Diagnosing any deviations from	
21	proper growth and following up	
	the cause by conducting an	
	interview with the mother, giving	
	the necessary recommendations	
	and possibly the necessary	
	referral to a doctor in 2 cases	
25	proper breastfeeding education to	
	the mother (3 cases)	
26	Complementary nutrition	
	education (2 cases) from	
	beginning up to one year old) and	
	up to two years old (2 cases	
27	Education of Breastfeeding (1	
	case)	
	Teaching proper nutrition to	
28	children over 2 years old	
	children over 2 years old	

	Diagnosis, care and education
29	(1case of diarrhea 1 in respiratory
	disease, 1 case of in thrush, 1 in
	hypoglycemia and 1 in fever)
	section of Maternity Care:
	making the medical record for
30	new clients (2 cases)
	Measurement of height, weight
31	and blood pressure (5 cases)
32	Performing physical examinations
	and Leopold maneuver (5 cases)
33	Fetal heart sound control and
	maternal vital signs (5 cases)
34	Request for routine pregnancy tests 5 cases
35	Educate the pregnant mother about self-care in various
	subjects: nutrition, sleep, rest and personal health and sexual
	ř l
	relations, danger signs, exercises,
	pregnancy exercises, etc. 2
36	Conducting group training for pregnant mothers with topics
	related to pregnancy education(1-
	2 cases)
	Attention and examination about
37	oral health of pregnant women
	and referral to the dentist in
	necessary cases (2 cases)
	Tips on tetanus vaccination(2
38	cases)
20	Breast examination and
39	examination to prepare for
	breastfeeding (1 case)
40	Screening of high-risk mothers
40	and referring them to a specialist
	doctor or hospital (1-2 cases)
41	Request of sonography (2-1
41	cases)
43	Diagnosis of high-risk
42	pregnancies, client education,
	doing special referring and
	0 · F · · · · · · · · · · · · · · · · ·

	follow-up
	Planning for visit intervals in 5
43	cases
	Other cases:
	Adolescent health education and
44	counseling (1 case)
45	education and counseling of
45	menopause related issues 1 case
46	Marriage education and
46	counseling (2-1 cases)
47	Sexual function education and
47	counseling (1 case)
48	Training of health liaisons in 1
76	related subject
	Community health section
	(rural city): includes 4 days in
	the city and 4 days in the village
49	Providing an educational class in
	a girls' school (1 case)
50	Providing an educational class for
	women with specific needs in a
	determined center a subject (1
	case)
51	Visiting a factory or the place
	where women work - providing
	them the necessary health
	education-(1 case)
52	Visit and provide maternal and
	child health services in the rural
	health center
53	Visiting the headquarter center in
	the health network and familiarity
	with the work of collecting health
	information and monitoring the
	Vital Horoscope preparation center
	and its interpretation by the student
	Providing educational classes in
54	the mosque for women
	Visit a center for the elderly and
55	women with disabilities and
	provide training for them

56	Visiting homes in the city and
	villages with the help of liaisons
	or health workers
57	Kindergarten visits and pre-school
37	education on child health issues
58	Carrying out a project to solve or
	management a health problem (1
	case that (mentioned in the
	contents)
59	In addition to any other
	community health program that is
	relevant to the area of study.
60	Participate in questions and
	answers and study theoretical
	topics determined by the
	instructor

List of student activities related to the Management and its application in midwifery Practicum/Internship (course code 82)

Student Na	me: Date	: Interns	hip Place: Instructor Name:	
Row	Date of activity and,	Date of	Name of activities	Quality and
	instructor's signature	observation,	9 days (6 hours daily)	considerations
		signature of the		
		instructor		
		mstructor	A: Preparation of a written	
1			project about the structure or	
			clinic related to midwifery	
			work:	
			1 -Physical structure in the form	
			of a sketch	
			2 -Preparing a list of medical and	
			non-medical devices	
			3 -Status of hospitalized patients	
			in terms of: medical diagnoses,	
			care needs, educational needs	
			4 -Average number of patients	
			admitted, admitted and discharged	
			5 -Section routines including:	
			How to accept patients	
			How to discharge patients	
			How to write reports and -	
			examinations and tests	
			How to educate the patient	
			How to implement care and	
			treatment processes	
			Arrangement of file sheets	
			How to do consultations - How to request tests	
			How to request tests How to check the doctor's	
			instructions	
			How to complete the cardex	
			How to enter information into -	
			the computer	
			Preparing a list of names of -6	
			doctors, residents, interns	
			And nursing and midwifery	
			students, etc. and the days of their	
			presence	
			7 -Preparing a list of commonly	

	T		
		used drugs in the ward and their	
		care and prescribing tips	
		8 -Preparing a list of tools and	
		equipment available in the section	
		code trailer and its available drugs	
		9 -Preparing a list of diagnostic	
		methods	
		(Tests), how to perform them and	
		necessary preparations for	
		patients (to perform them)	
		10 -Preparing a list of names of	
		nursing and midwifery staff and	
		other staff and the number of each	
		of them in each work shift	
		11 -Awareness of the protection	
		and security systems of the sector	
		and its control	
		12 -Awareness of the methods of	
		dividing human resources in the	
		sector	
		13 -Preparing a list of technical	
		and installation and lines	
		and installation problems	
		B: Presenting the above written	
		1	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the	
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2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly 2- Explaining the reasons for the	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly 2- Explaining the reasons for the formation of the problem	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly 2- Explaining the reasons for the formation of the problem 3- Determining measurable goals	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly 2- Explaining the reasons for the formation of the problem 3- Determining measurable goals (with measurable criteria)	
2		B: Presenting the above written report and fixing its problems A: Designing a problem-solving process, in case of one of the existing problems of the department as: 1- Expressing the problem clearly 2- Explaining the reasons for the formation of the problem 3- Determining measurable goals (with measurable criteria) 4- Providing possible solutions	
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		midwifery staff in coordination	
		with the Head Department	
		3- Installing it on the bulletin board or registering it in a special	
		office	
		A: Execution of the problem	
3		solving process (based on the	
		best solution selected in the	
		second week)	
4		B: Providing a standard of care	
_		based on the education of the	
		department (in the form of	
		educational pamphlets,	
		educational posters, etc.)	
5		A: Implement the principles of	
		taking over the ward through:	
		1- Attending the ward on time	
		2- Going to the bed of patients	
		3- Paying attention to all written	
		and oral reports of the head of the	
		ward about patients	
		4- Paying attention to the	
		equipment and drugs delivered in	
		each shift	
6		D: Implement the principles of	
		section delivery	
		via:	
		1- Delivery of patients t	
		2-Delivery of special tools,	
		medicines and equipment	
		3- Registration of all reports	
		related to patients according to	
		the correct principles of reporting	
7		E: Active participation in the	
		visit of doctors and other	
		members of the health and	
		treatment team through:	
		1- Accompanying the doctor or	
		other team members in the clinic	
		2- Checking the doctor's	
		instructions according to the	
		relevant principles	
		3- Entering commands in the	
		card, medicine cards and	
		computer	
		4-Performing appropriate actions	1

	following orders (including	
	following up on consultations,	
	requests, etc.)	
	F: Control and supervision of	
8	the affairs of the ward through:	
	1- Frequent and purposeful	
	rounds in the department and	
	gaining knowledge about:	
	2- Activities of other team	
	members, including:	
	Doctors, nurses, midwives and	
	students	
9	F: Calculating the number of	
	required manpower	
	(professional and non- professional) and the number of	
	each of them in each shift	
10	G: Preparing the patient's	
	nutritional list and controlling	
	and supervising its proper implementation	
	H: Preparation of daily	
11	statistics of patients	
10	I: Preparation of various	
12	requests, including:	
	Tests, warehouse equipment,	
	.etc	
13	J: Anticipation of all equipment	
13	and drugs needed for other	
	shifts in the morning shift or	
	before the holidays	
14	K: Controlling the presence of	
	students in the ward and	
	submitting the necessary report to the instructor or head of the	
	ward	
	L: Active participation in the	
15	clinical rounds of supervisors	
	through:	
	1- Visiting the physical	
	environment of the ward,	
	equipment and facilities	
	2- Investigating the performance	
	of nursing and midwifery staff	
	and their communication	
	3- Investigating how to record	

information and reports 4- Studying the clinical condition of patients and providing services to them 5- Preparing a list of errors in each of the above cases 6- Providing appropriate reminders to the department officials 7 -Follow-up to eliminate the mentioned problems M: Proper cooperation with the staff of the department with the necessary conditions A: Problem solving (in the form of evaluating the achievement of set goals) B: Designing a monthly staff shift schedule C: Assessing the status of provided care to patients, especially critically ill patients
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provided care to patients,
especially critically ill patients
D: Carrying out activities related
to the guidance of students and human resources of the ward
E: Establishing appropriate and
effective communication with
doctors, midwives, nurses,
students, patients, patient
companions, service personnel
and other parts of the hospital
F: Performing activities to control
infection in the ward (according
to the available facilities and
conditions) through:
1- Providing practical suggestions
for infection control
2- Implementing educational
programs to control the infection
) For staff and students(
Participate in questions and
answers and study theoretical
topics determined by the
instructor

List of student activities related to the Radiology, Sonology and Electrology in Obstetrics and Gynecology Practicum/Internship (course code 83)

Student Name: Date: Internship Place: Instructor Name: Row Date of activity and, Date of Name of activities Quality and 9 days (6 hours daily) instructor's signature observation. considerations signature of the instructor observe and interpret simple 1 radiographs of the pelvis Observe and interpret radiographs 2 of the pelvis and uterus with radiocontrast agent Recognize high quality 3 radiological images from a low one observe different sections of 4 radiology devices visit different sections and how to 5 do radiotherapy Fetal auscultation with sonicaid 6 (Doppler) Observe different parts of the 7 monitoring device Installing and replacing paper, 8 preparing the monitoring device monitoring using the relevant 9 device observe different parts of 10 ultrasound devices Finding the uterus, bladder and 11 ovaries of women (pregnant and non-pregnant) as well as the head, chest, abdomen, limbs, fetuses and placenta on ultrasound Measurement of biparietal 12 diameter, femoral length, head circumference and abdominal circumference using sonography Interpretation of ultrasound 13 images of pregnant and nonpregnant uterus and fetus and placenta Observation of biophysical profile 14 testing for fetus

15	Observing different parts of
	electrocautery and freezing
	devices (crayo)
16	Perform or observe an
10	electrocautery and freeze the
	cervix
17	observe different parts of the laser
	device and how it works
18	observe a variety of heating and
10	cooling devices and methods to
	relieve pain
10	Observe different types and
19	sections of TENS devices
20	Use of the TENS device at least
20	once, especially to relieve the pain of
	dysmenorrhea, labor pain and urinary
	incontinence
21	Giving exercises to relieve
	back pain, especially in the neck,
	back and pelvis, as well as knee
	pain to patients (pregnant or
	postpartum)
22	Giving exercises during
	pregnancy
23	Giving exercises after childbirth
	and giving Kegel exercises
24	Observe and perform various
	types of massage therapy to
	relieve pain and for relaxation
25	Participate in questions and
23	answers and study theoretical
	topics

List of student activities related to the Neonates who need intensive care Internship (course code 80)

Student Name: Date: Internship Place: Instructor Name: Row Date of activity and, Date of Name of activities Quality and 9 days (6 hours daily) instructor's signature observation. considerations signature of the instructor physical examination of term 1 infants involve s: examination of head and neck and fontanelles, face, chest, heart, abdomen, spine, color, pelvic joint, Babinski test, genital tract, fetal age tests, reflexes and nerve tests(10 cases) education for breastfeeding(2 2 cases) Perform 1 case Lavage 3 By inserting a catheter Perform the gavage by inserting a 4 gastric catheter (1 case) Anthropometric and weight 5 measurements (2 cases) High risk baby care (RDS or 6 iaundice) Ability to work with ambo bag 7 and laryngoscope (1 observation 1 case of neonatal CPR Premature baby care in 1 case 8 Baby care in the incubator (2) 9 cases) Caring for a baby with a disease 10 and a complication (2 cases) Calculation of medication and 11 execution of doctor's prescription in 3 cases intravenous feeding and 12 electrolytes (3 cases) Blood sampling from a vein or 13 sole of the foot (3 cases) One case of consultation if 14 possible Teaching the mother about how to 15

	give medicine and feed the baby
	(1 case)
	Performing neonatal examination
16	at the time of discharge 1 case
15	Working with pulse oximeter and
17	ventilator devices, 1 case each
18	Training on vaccination, nutrition
	and care of the infant, growth of
	the baby, urine and feces ,crying
	of the baby, change of clothes and
	diaper, newborn danger signs,
	necessary tests, umbilical cord
	care, fever and seizures, etc
19	Preparation of an educational
	pamphlet (individual or group)
20	Familiarity with the
	process of CPR of the baby and
	performing it on the model (1
	case observation or helping for
	CPR if possible)
21	work with incubator (1
	case)
22	phototherapy device (1
	case)
23	observe and help a blood
	transfusion(1 case)
24	Caring and working in the ICU
	for 3-6 days

List of student activities related to the Medical and surgical diseases in pregnancy Internship (course code 81)

Student Name: Date: Internship Place: Instructor Name: Row Date of activity and, Date of Name of activities Quality and 9 days (6 hours daily) instructor's signature observation. considerations signature of the instructor Prepare an accurate history of 15 1 pregnant women with internal diseases and surgery Perform their complete physical 2 examinations Diagnosis of abnormalities in 3 history and examination Request the necessary tests as 4 needed Analysis of abnormalities of 5 important paraclinical trials Analysis and recognition of 6 changes in important paraclinical tests in pregnancy and its interpretation Quickly obtain the required 7 information from the patient's record Provide a correct and accurate 8 report of the patient's condition to the instructor Diagnosis and observation, 9 management and treatment of internal emergencies and surgery in pregnancy Diagnosis according to history and 10 physical examination, request, interpretation of tests and paraclinics as well as observation and evaluation of their treatment along with necessary care, providing necessary training, identification of relevant drugs, etc., based on their importance in pregnancy (12 days including 12 internal cases Giving the necessary education to 11 the mother Planning pregnancy care in the 12 mothers till the end of pregnancy

13	Perform a care process by each student	
14	Participate in questions and answers and study theoretical	
	topics	

Appendix No. 1

Charter of Patients' Rights in Iran

1- It is the patient's right to receive desirable health services.

- Providing health services should:
- 1-1) be worthy of human dignity and respect for cultural values and religious beliefs.
- 2-1) be based on honesty, fairness, politeness and kindness.
- 3-1) be free from any discrimination, including ethnic, cultural, religious, type of disease and gender.
- 4-1) be based on current knowledge.
- 5-1) be based on the superiority of the patient's interests.
- 6-1) be regarding the distribution of health resources based on justice and patients' treatment priorities.
- 7-1) be based on the coordination of care elements including prevention, diagnosis, treatment and rehabilitation.
- 8-1) be with the provision of all basic and necessary welfare facilities and away from the imposition of pain and unnecessary restrictions.
- 9-1) be with paying special attention to the rights of vulnerable groups in society, including children, pregnant women, the elderly, the mentally ill, prisoners, the mentally and physically disabled, and the homeless.
- 10-1) be as soon as possible and with respect to time of patient.
- 11-1) be considering variables such as language, age and gender of service recipients.
- 12-1) in necessary and urgent care (emergency), regardless of its cost. In non-immediate (elective) cases, it is defined according to the criteria.
- 13-1) in necessary and urgent care (emergency), if it is not possible to provide appropriate services, it is obligatory to provide the necessary services and explanations, the patient must be transferred to the equipped unit.
- 14-1) in the final stages of life, when the status of the disease is irreversible and the death of the patient is imminent, a solution should be provided to maintain his comfort. Comfort means reducing the patient's pain and suffering, paying attention to the psychological, social, spiritual and emotional needs of him/her and his/her family at the time of mourning. The dying patient has the right to be with the person he/she wants in the last moments of his/her life.

2- Information should be provided to the patient in a desirable and sufficient manner.

- 1-2) The content of the information should include the following:
- 1-2-2) Provisions of the Charter of Patients' Rights at the time of admission.
- 2-1-2) Predictable criteria and costs of the hospital, including medical and non-medical services, and insurance criteria and introduction of support systems at the time of admission.
- 3-1-2) The name, responsibility and professional rank of the members of the medical department responsible for providing care, including physicians, nurses and students, and the relationship between their professions.
- 4-1-2) Diagnostic and therapeutic methods and the strengths and weaknesses of each method and its possible complications, diagnosis, prognosis and its complications, as well as all the information influencing the patient's decision-making process.
- 5-1-2) How to access the treating physician and the main members of the medical team during treatment.
- 6-1-2) All actions that have a research nature.
- 7-1-2) Provide the necessary training to continue treatment.
- 2-2) How to provide information should be as follows:
- 1-2-2) Information should be provided at the appropriate time and in accordance with the patient's condition, including anxiety and pain, and his or her personal characteristics, including language, education, and comprehension, unless:
- -Delay in starting treatment by providing the above information will cause harm to the patient (in this case, the transfer of information after the necessary action should be done at the first appropriate time).
- The patient, despite being informed of the right to receive information, refuses to do so, in which case the patient's wishes must be respected, unless the patient's lack of information puts him or others at serious risk.
- 2-2-2) The patient can access all the information recorded in his clinical file and receive a picture of it and request the correction of errors in it.

3- The patient's right to freely choose and decide on receiving health services must be respected.

- 1-3) the scope of selection and decision-making is as follows:
- 1-1-3) Selection of the treating physician and the center providing health services within the framework of the criteria.
- 2-1-3) Selection and consultation of the second physician as a consultant.
- 3-1-3) Participation or non-participation in any research, with the assurance that his decision will not affect receiving health services.
- 4-1-3) Accepting or rejecting the proposed treatments after being aware of the possible side effects of accepting or rejecting it, except in cases of suicide or cases where refusing to treat another person is dangerous

- 5-1-3) recording the patient's previous opinion on future treatment measures when the patient has the ability to make decisions based on that when the patient isn't capable of deciding, in accordance with legal standards, health care providers and decision-makers for the patient.
- 2-3) Selection and decision-making conditions include the following:
- 1-2-3) the patient's choice and decision-making should be free and informed, based on receiving sufficient and comprehensive information * mentioned in paragraph 2).
- 2-2-3) after providing information, the patient should be given the necessary and sufficient time to make a decision and selection.

4- The provision of health services should be based on respect for the patient's privacy (right to privacy) and observance of the principle of confidentiality.

- 1-4) it is mandatory to observe the principle of confidentiality regarding all information related to the patient, except in cases where the law has excluded it.
- 2-4) the patient's privacy must be respected in all stages of care, both diagnostic and therapeutic. For this purpose, it is necessary to provide all the necessary facilities to ensure the privacy of the patient.
- 3-4) only patients, group therapy, authorized persons authorized by the patient, and persons who are considered authorized by law can access information of the patient.
- 4-4) the patient has the right to have his trusted person with him in the diagnostic stages, including examinations. One of the child's parents can accompany in all stages of treatment which is the child's right, unless it is contrary to medical necessity.

5. Access to an efficient compliant response system is the patient's right.

- 1-5) every patient has the right to complain to the competent authorities in case of alleged violation of his rights which is the subject of this charter, without disturbing the quality of receiving health services.
- 2-5) Patients have the right to be informed about the procedure and the results of their complaint.
- 3-5) Damage caused by the error of health care providers should be compensated in the shortest possible time after consideration and proof in accordance with the regulations.

In the implementation of the provisions of this charter, if the patient does not have the capacity to make decisions for any reason, the exercise of all the rights of the patient - mentioned in this charter - will be the responsibility of the substitute legal decision maker. Of course, if the alternative decision-maker obstructs the patient's treatment against the physician's opinion, the physician can appeal the decision through the relevant authorities.

If a patient who does not have the ability to make a decision but can make a reasonable decision as part of the treatment process, his or her decision should be respected.

Appendix No. 2

Regulations of dress code and professional ethics of students in laboratory-clinical environments

The dress code and behavior of all workers in the occupations of the medical department ²* should be suitable for their profession and provides appropriate and effective professional relationship with patients, patients' companions, colleagues and others in educational settings.

Therefore, following guidelines is morally mandatory for everyone who is studying or providing services in clinical, laboratory and educational settings.

Chapter One: Clothing and Covering

Students' clothing for entering educational environments, especially laboratory and clinics must be a uniform and include the following set of features:

- 1- Long white medical lab coat (knee-length and loose with long sleeves)
- 2- The coat must have the logo of the relevant University of Medical Sciences and Health Services.
- 3- All the buttons of the coat must be completely fastened during the whole period of presence in the educational environments.
- 4- It is mandatory to use a valid photo ID card containing (first letter of name, surname, title, faculty name and field name) on the cover, on the left chest during presence in educational environments.
- 5. Female students should cover the entire head, neck, under the neck and hair with a suitable cover.
- 6- Pants should be long, plain, and loose. Using ripped jeans and other fashionable items are not a suitable in medical environments.
- 7- It is necessary to wear simple socks that cover the whole leg and ankles.
- 8- It is forbidden to wear lace socks or those with decorations.
- 9- Shoes should be comfortable and appropriate, there should not make noise while walking.
- 10- coat, clothes and shoes should be comfortable, clean, tidy and normal and should not have unusual bold colors.
- 11- It is forbidden to use signs and tags unrelated to the medical profession and it is forbidden to put them on coats, pants and shoes.
- 12- It is forbidden to use and expose any rings, bracelets, necklaces and earrings (except wedding rings in educational environments).
- 13- It is forbidden to use slippers and sandals in educational environments except the operating room

Chapter 2: Personal hygiene and makeup standards in the country's educational environments

- 1- Medical affiliates are role models of personal hygiene, therefore, clean appearance and hygienic behavior in medical educational environments is essential.
- 2- Nails should be short and clean. Nail decoration with nail polish and nail stickers in any shape is prohibited. The use of artificial nails and long nails increases the chance of transmitting the infection and the possibility of injury to others and medical equipment.
- 3- Unconventional make-up of the head and face is not appropriate for the practice of the medical professions.
- 4- It is forbidden to show any makeup tattoo, a ring or a jewelry on the nose or any part of the hands and face.
- 5 colognes and perfumes with a pungent odor and allergens are prohibited in educational settings.

Chapter 3: Criteria of students' behavior in medical education environments

- 1- Observance of the principles of professional ethics, modesty in dealing with patients, patients' companions, professors, learners and staff is mandatory.
- 2- Speaking in educational environments should be calm and polite. And it is forbidden to make loud noises or utter words that are not suitable in the medical profession.
- 3- Smoking is prohibited at all times when a person is in educational environments.
- 4- Chewing gum in laboratories, conference halls, patient rounds and in the presence of professors, staff and patients are prohibited.
- 5 When attending classes, laboratories and rounds of patients, the cell phone should be turned off and at other times, using it should be reduced as necessary.
- 6- Any discussions and jokes in the public such as elevators, coffee shops and restaurants are prohibited.

² The medical group refers to those working in medicine, dentistry, pharmacy, nursing, midwifery, rehabilitation, health, nutrition, paramedical, basic sciences and new technologies related to medical sciences.

Chapter 4: Supervising the implementation and follow-up of violations of the bylaws

- 1- Supervising the observance of the principles of this regulation in educational hospitals and other educational environments of clinical medical sciences is the responsibility of the deputy director of education of the hospital, group manager, head of department and educational and student experts of the relevant unit.
- 2- People who do not follow the professional ethics and principles of this regulation will be warned first and if they insist on committing a violation, they will be referred to the student disciplinary council.

Appendix No. 3 Rules for working with laboratory animals

Animals play a very important role in promoting and expanding medical research, and the ethical foundations and teachings of the divine religions dictate that we adhere to their rights. Accordingly, researchers should be required to observe the relevant ethical principles in their research on animals. For this reason, according to the approvals of the Publications Commission, it is necessary to mention the code of the Ethics Committee in research articles submitted to scientific journals. The following are the principles and rules for working with laboratory animals:

- 1- The storage space and building must have the necessary facilities for the health of the animals.
- 2- Before entering the animals, based on the type and species, the necessary conditions for keeping them should be provided.
- 3- Cages, floor walls and other building parts should be washed and disinfected.
- 4- Necessary conditions in terms of light, oxygen, humidity and temperature should be suitable in the closed space.
- 5. If kept outdoors, the animal must have a shelter.
- 6- The space and cage should be suitable for the animal species.
- 7- Cages must be suitable for the animal rest.
- 8- In transporting the animal, the conditions of temperature, light and breathing air should be provided from the place of purchase to the permanent place of the animal.
- 9- The vehicle transporting the animal must have suitable conditions and have the necessary license.
- 10- The health of the animal should be controlled by the person receiving it.
- 11- The quarantine of the newly arrived animal should be observed.
- 12- Animals should not be in the vicinity of their predatory animals.
- 13- Cages should be exposed to the view of a careful person.
- 14- It is not possible for the animal to escape from the cage.
- 15- Remove extra noises that cause annoyance to the animal from the environment.
- 16- There should not be possibility of injury to the animal due to movement.
- 17- The bed and resting place of the animal should be cleaned regularly.
- 18. The storage space should be regularly washed and disinfected.
- 19. Use standard disinfectants to clean the environment and sanitize work tools.
- 20- The food and water consumed by the animal should be suitable and hygienic.
- 21- Ventilation and discharge of waste should be done continuously so that there is no annoying odor and the possibility of allergen and disease transmission to staff, as well as laboratory animals.
- 22- There should be a suitable space for disposing of corpses of animals.
- 23. There should be sufficient, comfortable and hygienic space for administrative staff, technicians and caregivers.
- 24. Do not use sick or special animals such as in pregnancy and lactation in research.
- 25- Before any research, the necessary opportunity should be provided for the animal to adapt to the environment and people.
- 26. Employees must have been trained to work with animals.

Conditions for conducting research on animal

The selected species of animal should be suitable for testing and research.

The minimum number of animals required for statistical research accuracy should be used.

It is not possible to use optimal replacement programs instead of using the animal.

To be used in different stages of research and in the method of animal waste after research, minimal harassment.

Observe animal labor codes throughout the study.

The results should lead to improving the health of the community.