

Block Guide

Special Sense



Coordinator
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MEDICAL EDUCATION UNIT
FACULTY OF MEDICINE
UNIVERSITY OF MUHAMMADIYAH SUMATERA
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Acknowledgement

Assalamualaikum Wr. Wb.

Competence based curriculum with SPICES approach had been implemented at undergraduate program in medical education according to Ministry of National Education decree No. 045/U/2002 since 2008.

The objective of competence based curriculum is producing professional doctor that capable to give community service and utilize technology. Curriculum at Faculty of Medicine, UMSU had been revised and reviewed twice, the first in 2011, and the second in 2016.

Endocrinology topics is covered in the second semester. The objective of this block is student can explain physiology and pathology aspects in endocrine system as a control of body regulation. This block will be the first block for learning clinical medical science.

**Dean,
Medical Faculty of
Universitas Muhammadiyah Sumatera Utara**

(Prof. dr. Gusbakti Ruship, M.Sc, PKK, AIFM)

Content

Acknowledgement	i
Content	ii
Vision, mission and goals of the medicine faculty of UMSU	iii
Chapter I Introduction	
1.1 Block description	1
1.2 Learning outcome	2
1.3 Assessment	2
Chapter II Learning Activities	
2.1 Lecture	3
2.2 SGD	3
2.3 Laboratory work	3
2.4 Self study	3
2.5 Project based learning	3
Chapter III Learning topic	
3.1 Topic tree	4
3.2 The scope of learning	5
3.2.1 Content of Lectures	5
3.2.2 Content of Practical	12
3.2.3 Basic clinical skills content	13
3.2 List of references	14
Reference	16
Scenario of Small Group Discussion	17
Schedule	18

VISION, MISSION AND GOALS OF THE MEDICAL FACULTY OF UMSU

Vision:

To be a leading center of medical education in the development of science, technology, and human resources that have a global perspective, professional, dedicated and community-oriented, based on Al-Islam and Kemuhammadiyah principles

Missions:

1. Providing education and teaching medical science that is competency-based and built upon Al-Islam and Kemuhammadiyah
2. Conducting research and development in the field of medical science based on Al-Islam and Kemuhammadiyah
3. Carrying out community service in the field of medical science based on Al-Islam and Kemuhammadiyah

Goals:

1. To produce graduates who are professional, competent, dedicated, and have an Islamic perspective in accordance with the Indonesian Doctors Competency Standards (SKDI) and Standards of Character and Competence of Muhammadiyah's Doctor (SKKDM)
2. To increase the number of research and scientific publications in national and international journals
3. To develop a network of sustainable partnerships in the field of medical science at national and international level
4. To Increase the number of community service to create a healthy and knowledgeable society.

Chapter 1 Introduction

1.1. Introduction

This block is the first block in the third semester in the educational curriculum at FK UMSU. Duration of this block is 5 weeks with a load of 5 credits and consists of two modules with 10 hours of tutorials, 5 practicals and 5 basic clinical skills. The first module discusses the organ system of hearing, smell and throat, while the second module discusses the vision organ system.

This block provides information on the mastery of the science of special sense that includes vision, hearing, smell, throat, both basic and clinical by equipping students with the ability to recognize, understand, and explain the diseases related to special sense and their management and skills learning that will be applied in mastery of matter in the next blocks.

In this block students will be introduced on various topics of special senses from the point of view of anatomy, physiology, biochemistry, histology, anatomical pathology, parasitology, microbiology, pharmacology, radiology, nose and throat health science, eye health science, and Islamic studies human sensory system in normal and pathological conditions. In studying this block includes the etiology, diagnosis, treatment, prognosis, and prevention of disease. Also discussed the clinical examination, laboratory tests and other investigations.

1.2 Learning outcomes

In the end of this block, students are able to:

1. Explain macroscopic, microscopic structure and physiology of special senses that are related to preclinical medical science
2. Explain the mechanism of pathophysiology and pathology of special sense diseases that are related to preclinical medical science
3. Diagnose and manage patient's problems and diseases independently and thoroughly.
4. Diagnose, manage earlier and refer patient with (3B) or without emergency condition (3A)
5. Diagnose and refer patient (2)

6. Know, explain clinical sign and symptom, refer patient, and able to follow up patient after refer back (1)
7. Do clinical skills to mankind or patient simulation
8. Respect to others, to be discipline, honest, altruism, team work, and responsible
9. Communicate effectively
10. Explain Islamic aspect of special sense problems or diseases

1.3 Assessment

Learning activities	Assessment method	Summative	Formative	Percentage
Lecture	MCQ	Minitest	-	30%
	MCQ	Final block	-	40%
SGD	Short Essay	Final block	Process observation checklist	10%
Attitude		Process observation checklist		10%
Laboratory practice	MCQ/ short essay	Practical test as prerequisite for final block	-	-
PKBK	Portfolio Oral assessment	Portfolio Oral assessment	-	10%

Chapter II

Learning Activities

2.1 Lecture

Lecture is face to face meetings between student and lecturer in large group of student in which lecturer transfer conceptual and up to date knowledge to develop new construct of knowledge. At our medical education program, it is three term of lecturer subject: university subject (Ibadah and Kewarganegaraan), block subject and non block subject.

2.2 Small group discussion (SGD)

Small group discussion (SGD) is a learning activity that 8-10 student discuss problem with a fasilitator. SGD is held with seven jumps; student clarify new terminology, identify problems, brainstorming or make a hypothesis, discuss, formulate learning issues, self study, share learning results. SGD id held twice a week for two hours.

2.3 Laboratory work

Laboratory work is a learning activity to enhance and prove knowledge, improve procedural skills in laboratory.

2.4 Self study

Self study is student activity to learn the subject or learning issues out of another learning activities. Student can learn from any resources (meet up with lecturer, online searching, read textbook, etc) and anywhere (library, home, classroom, etc)

2.5 PKBK

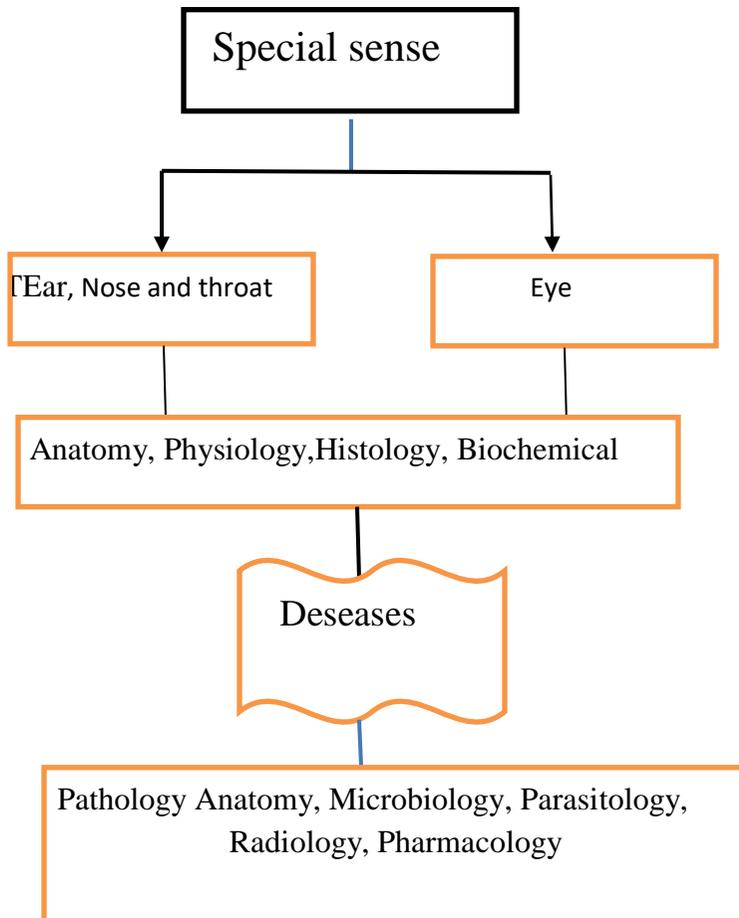
Program keluarga binaan kesehatan (PKBK) is a specific competences that student attach in family context. At the end of this program, student explain knowledge of community based learning and recognize the family character. Student will learn in group and get one preceptor (Dosen pembimbing lapangan). Student must go to the family and discuss to the preceptor before and after go to the family. This program is a prerequisitefor final block. Student will be assessed by the portfolio, family folder and oral assessment.

2.6 FK Menghafal and 9 golden habits

FK Menghafal is a program that designed to reach the Islmaic competences. In this program, student must memorize the ayat from Al-Qur'an (juzz 30) and deliver it to DPHC (dosen pembimbing hafalan ceramah) every block.

Chapter III Learning topic

3.1 Topic tree



3.2 The scope of Learning

3.2.1 Content of Lectures

Learning Objective	Content/subject	Sub-topic	Learning methods	Time Allocation (minute)	Assessment method
Describes macroscopic and microscopic structures of organ and tissue sense systems in accordance with basic medical science	Basic anatomy of the eye and Ear, nose and Throat (ENT)	Organs and the location of eye and ENTorgans	Lecture	1x50	MCQ
	Anatomy of the Eye	Structure, blood vessels and innervation of eye organs	Lecture	1x50	MCQ
	Anatomy of ENT	The structure of the ENT, their blood vessels and innervation	Lecture	2x50	MCQ
	Eye histology	Embryology and histology of eye structure	Lecture	1x50	MCQ
	Histology of the ears, nose and throat	Embryology and histology of ear, nose and throat structures	Lecture	1x50	MCQ
	Physiology of vision	Regulation of eyeball movement, photoreceptor mechanism and shadow formation, response in the cortical path of vision, refraction	Lecture	1x50	MCQ
	Physiology of hearing and balance	Cross the innervation of the mechanisms of hearing and balance	Lecture	1x50	MCQ
	The physiology of tasting, smelling and swallowing	Cross the innervation of the mechanisms of tasting, smelling and swallowing	Lecture	1x50	MCQ
	Biochemical of vision system	- The function and role of biomolecules contained in the eye tissue	Lecture	1x50	MCQ

		<ul style="list-style-type: none"> - Eye tissue metabolic pathways - Anti-oxidants in the eye tissue - The role of GSH, tocopherol and ascorbic acid - Retinal biochemistry in the process of the occurrence of color blindness 			
Describes clinical symptoms, pathophysiology and mechanisms, the way of diagnosis and management of an eye disorder or pathology in accordance with basic medical science	Abnormalities in the eyelid	Entropion, ectropion, blepharitis, blepharoptosis, hordeolum, chalazion, trichiasis, lagophthalmos, epikantus, ptosis, eyelid retraction, xanthelasma, laceration	Lecture	2x50	MCQ
	Abnormalities in the lacrimal apparatus and sclera	Dakrioadenitis, dakriocystitis, dakriostenosis, other ductal abnormalities, lacrimal duct laceration, scleritis and episcleritis	Lecture	1x50	MCQ
	Eye disorders, anterior chamber, vitreous fluids, iris and ciliary bodies	Endophthalmitis, mikroftalmus, hifema, hypopion, vitreous hemorrhage, iridocyclitis, iritis	Lecture	1x50	MCQ

	Abnormalities of the cornea	Erosion, keratitis, foreign bodies in the cornea, corneal burns, trachoma, keratoconjunctivitis sicca, corneal edema, keratoconus, xerophthalmia	Lecture	1x50	MCQ
	Conjunctival abnormalities	Subconjunctival hemorrhage, pterygium, foreign body in conjunctiva, conjunctivitis	Lecture	1x50	MCQ
	Abnormalities of the lens	Cataract, homocystinuria, injury / trauma, lens dislocation	Lecture	1x50	MCQ
	Abnormalities of the accommodation and the refraction	mild hypertrophy, mild myopia, mild astigmatism, presbyopia, adult anisotropia, ambliopia, binocular diplopia, night blindness, scotoma, field disturbance	Lecture	2x50	MCQ

	Abnormalities of the retina	Retinal detachment, retinal hemorrhage, retinal vascular occlusion, macular degeneration, retinopathy, chorioretinitis	Lecture	1x50	MCQ
	Abnormalities of the optical disc and the eye nerve	Optic disc cupping, papilloedema, optic atrophy, optic neuropathy, optic neuritis	Lecture	1x50	MCQ
	Glaucoma	Acute glaucoma, other glaucoma	Lecture	1x50	MCQ
	Anatomical pathology of the eye abnormalities	Congenital abnormalities and neoplasms in the eye	Lecture	1x50	MCQ

	Parasitic infections of the eyes	Loiasis and Onchocercosis	Lecture	1x50	MCQ
	Infective microorganisms in the eye	Bacteria, viruses and fungi that cause eye infections	Lecture	1x50	MCQ
Pharmacology eye medicine	Pharmacodynamic and pharmacokinetic drugs on vision impairment	Midriatikum, miotikum, topical anesthesia, glaucoma drug, topical antibiotic and antiviral	Lecture	1x50	MCQ
Explain the problem of blindness in Indonesia	The Problem of Blindness in Indonesia	<ul style="list-style-type: none"> - Definition, classification, prevalence, causes of blindness - Overview of xeroftalmia, vitamin A deficiency, keratomalasia - Occupational blindness - The eye care at Puskesmas 	Lecture	1x50	MCQ
Describes clinical symptoms, pathophysiology and mechanisms, diagnosis and	Abnormalities and disorders of the outer ear	Preauricular fistula, inflammation of the auricular, herpes zoster in the ear, external otitis, auricular trauma, granuloma, foreign body, serumen prop	Lecture	1x50	MCQ

management of a disorder or pathological condition of the ear, nose and throat according to basic medical science	Abnormalities and disturbances in the middle ear	Bullous myringitis, tympanic membrane perforation, tympanosclerosis, otosclerosis, acute otitis media, serous otitis media, chronic otitis media mastoiditis, cholesteatoma	Lecture	1x50	MCQ
	Abnormalities and disturbances of the inner ear and deafness	Labyrinthitis, presbycusis, acoustic trauma, deafness (congenital, conductive, sensorineural / perceptual)	Lecture	1x50	MCQ
	Abnormalities and disorders of balance	Vertigo, tinnitus, motion sickness, Meniere's disease	Lecture	1x50	MCQ
	Abnormalities and disorders of the nose	Nasal polyp, nasal septal deviation (etc), epistaxis, foreign body	Lecture	1x50	MCQ
	Infection and inflammation of the nose	Furunculosis on the nose, acute rhinitis-vasomotor-allergic-chronic-medicamentous	Lecture	1x50	MCQ

Infection and inflammation of the paranasal sinuses	Acute sinusitis (acute maxillary sinusitis, acute frontal sinusitis, acute ethmoiditis), chronic sinusitis, nasal polyps	Lecture	1x50	MCQ
Infection and inflammation of the larynx	Laryngitis, Pseudo-croup acute epiglottitis, Difteria, laryngeal carcinoma	Lecture	1x50	MCQ
Infection and inflammation of the pharynx	Tonsillitis, Pharyngitis, Peritonsillar Abscess, Adenoid hypertrophy and Nasopharyngeal carcinoma	Lecture	1x50	MCQ
Abnormalities of the head and neck	Abnormalities in the salivary gland, torticollis, bezold abscess, fistula and brankial cyst, cystic hygroma	Lecture	1x50	MCQ
Emergency on the ears and nose	Emergency on the auricle, external ear, middle ear, inner ear, acute acoustic trauma, trauma aurikular,	Lecture	1x50	MCQ

	Anatomical pathology in ENT	Congenital Disorders and Neoplasm in ENT	Lecture	1x50	MCQ
Explain radiology examination on ENT	Radiology examination on ENT	Paranasal sinus, etc.	Lecture	1x50	MCQ
Describes pharmacology of the drug on the ear, nose and throat	Pharmacology of the drug on the ear, nose and throat	Pharmacodynamic and pharmacokinetic drugs on hearing loss and balance, smell and swallow	Lecture	1x50	MCQ
Describe problem of the deafness in Indonesia	Issues of Deafness in Indonesia	-Definition, classification, prevalence, causes and prevention of deafness -Occupational Deafness - Effort of ear health in Puskesmas	Lecture	1x50	MCQ
Total				42 x 50 minutes	

3.2.2 Content of Practical

Practical topics	Department	Time Allocation (minutes)
Anatomy of the eyes and ears;vascularization and innervation	Anatomy	2 x 50
Microscopic structure of the ear;labyrinth bone, sermicircular canal, cortical organ, earlobe	Histology 1	2 x 50
The microscopic structure of the eye;eyeballs, eyelids, lacrimal glands	Histology 2	2 x 50
The study of polypharmacy: the interaction of agonist and antagonist drugs (drugs work research on rabbit	Pharmacology	2 x 50

eyes)		
Special sensory physiology	Physiology	2 x 50
Microscopic structure of abnormalities in the head, the neck and eye organs	Anatomical Pathology	2 x 50
Total		12x 50

3.2.3 Basic clinical skills content

Topic	Department	Time Allocation (minutes)
Anamnesis of ENT, examination of the ear and nose	ENT	2 x 50
Handling bleeding in the nose, taking foreign objects from the nose and ears	ENT	2 x 50
Examination of ophthalmology, color blindness, and funduscopy	Ophtalmology	2 x 50
Vision inspection and correction	Ophtalmology	2 x 50
Anamnesis of the eye and the removal of foreign objects in the eye	Ophtalmology	2 x 50
Total		10 x 50

3.3 List of References

Departement	Book title	Author	Publisher	Year/ Edition
Biochemistry	<i>Textbook of Biochemistry with Clinical Correlations</i>	Devlin MT	Wiley Liss	2002/ 5th edition
	<i>Harper's Biochemistry</i>	Murray RK, Granner DK, Mayes PA	Lange Medical Books, Mc Graw-Hill	2003/ 26th edition
	<i>Biochemistry</i>	Lubert S	Freeman & Co, New York	2002/ 5th edition
	<i>General Chemistry, Principles & Structures</i>	Brody, JE	John Willy & Sons	1990
Anatomy	<i>Gray's Anatomy the Anatomical Basics of Medicine & Surgery,</i>	Williams PI	ELBS with Churchil Livingstone, Great Britain	1995
Physiology	Buku Ajar Fisiologi Kedokteran	Ganong WF	EGC	2004/ 20th edition
	Fisiologi Manusia dari Sel ke Sistem	Sherwood L	EGC	2nd edition
	<i>Textbook of Medical Physiology</i>	Guyton, AC & Hall, JE	B Saunders Co, USA	1996
Histology	<i>Bloom & Fawcett a Textbook of Histology</i>	Don Wayne Fawcett, Ronald P Jensch	Chapman & Hall, New York	1997/ 12 nd edition
	<i>Color Textbook of Histologi</i>	Gartner LP, Hiatt JL	WB Saunders Company, Philadelphia, Pennsylvania.	2001/ 2nd edition

Departement	Book title	Author	Publisher	Year/ Edition
	<i>Wheater's Functional Histology a Text & Colour Atlas</i>	B. Young, JW Heath	Churchill Livingstone	2000
	<i>Basic Histology Text & Atlas</i>	LC Junqueira, J Carneiro	Lange Medical Books, Mc Graw-Hill	2003/ Edisi ke-10
	<i>Basic Histology</i>	Luis C. Jungueiria, Jose Conzeio and Alexander N Contopoulus	Lange Medical Publication Mariano SR DiFiore, 1957, Atlas of Human Histology	1985
Public health	<i>Medical Epidemiology</i>	Raymond S Greenberg	Pentice-Hall International	1996
Ophtalmology	Ilmu penyakit mata	Ilyas S	Balai Penerbit FK UI	2008/ 3th edition
	Oftalmologi Umum	Vaughan DG	Widya edika	2000/ 14th edition
	Pandun Manajemen Klinis Perdami	Gondhowiardjo TD, Simanjuntak G.	CV Ondo	2006
ENT	Buku Ajar Ilmu Kesehatan T.H.T.K.L.	Soepardi EA, Iskandar N, Bashiruddin J, Restuti RD.	Balai Penerbit FK UI	2014/ 7th edition
	<i>Fundamental of Otolaryngology</i>	Adams GC, Boies LR, Higler	WB Saunders Co.	1998/ 6th edition
	<i>Disease of Ear, Nose, and Throat</i>	Dhingra PL	Reed Elsevier India Pvt. Ltd.	2010/ 4th edition
	<i>Bailey's Head and Neck Surgery-</i>	Bewly AF, Ruckenstein MJ	Williams & Wilkins	2014/ 5th edition

Departement	Book title	Author	Publisher	Year/ Edition
	<i>Otolaryngology</i>			
Pharmacology	<i>Basic & Clinical Pharmacology</i>	Katzung, BG	Appleton & Lange, Connticut	1998
Parasitology	<i>Parasitologi Kedokteran Ditinjau dari Organ Tubuh yang Diserang</i>	Natadisaatra,D And Agoes,R	EGC	2009

References

- 1.. 2015. Panduan Akademik FK UMSU. Fakultas Kedokteran Universitas Muhammadiyah Sumatera Utara.
- 2.. Murdoch-Eaton, Whittle, Sue. 2012. Generic skills in medical education: developing the tools for successful lifelong learning. *Medical Education* 2012; 46: 120–128

Small group discussion scenario

Scenario 1

Scenario 2

Scenario 3

Scenario 4

Scenario 5

Schedule

The first week

Day / Date	Time	Class A		Class B	
		Subject	Lecturer	Subject	Lecturer
Monday March 5, 2018	08.00-09.00	Introduction block	Dr.dr.Nurfadly,M.KT	Islam dan Kemuhammadiyah	Maulana Siregar, S.Ag, MA
	09.00-10.00	Introduction of KBK	Dept. Of Public health		
	10.00-11.00	Basic anatomy of the eye ENT	Dept. of Anatomy	Introduction block	Dr.dr.Nurfadly,M.KT
	11.00-12.00	Histology of the ears, nose and throat	Dept. of Histology	Basic anatomy of the eye and ENT	Dept. of Anatomy
	12.00-13.30	ISHOMA			
	13.30-14.30	Physiology of hearing and balance	Dept. of physiology	Histology of the ears, nose and throat	Dept. of Histology
	14.30-15.30	Abnormalities and disorders of the outer ear	Dept. of ENT	Physiology of hearing and balance	Dept. of physiology
	15.30-16.00				
	16.00-17.00				
17.00-18.00					
Tuesday March 6, 2018	08.00-09.00	Islam dan	Maulana Siregar, S.Ag, MA	Anatomy of ENT	Dept. of Anatomy
	09.00-10.00	Kemuhammadiyah		Abnormalities and disorders of the outer ear	Dept. of ENT
	10.00-11.00	Anatomy of ENT	Dept. of Anatomy	The physiology of tasting, smelling and swallowing	Dept.of Physiology
	11.00-12.00	Abnormalities and disturbances in the middle ear	Dept. of ENT	Introduction of KBK	Dept. Of Public health
	12.00-13.30	ISHOMA			

	13.30-14.30	The physiology of tasting, smelling and swallowing	Dept. of physiology	Histology of eye	Dept. of Histology
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Wednesday March 7, 2018	08.00-09.00				
	09.00-10.00				
	10.00-11.00	Abnormalities and disturbances of the inner ear and deafness	Dept. of ENT	Anatomy of the eye	Dept. of Anatomy
	11.00-12.00	Anatomy of the eye	Dept. of Anatomy	Abnormalities and disturbances in the middle ear	Dept. ENT
	12.00-13.30	ISHOMA			
	13.30-14.30	Issues of Deafness in Indonesia	Dept. of Public health	Practicum Anatomy B1/ Practicum Histology 1 B2	Dept. of Anatomy/ Dept. Histology
	14.30-15.30	Anatomical pathology in ENT	Dept. of Anatomical pathology		
	15.30-16.00				
16.00-17.00					
17.00-18.00					
Thursday March 8, 2018	08.00-09.00	Practicum Anatomy A1/Practicum Histology 1 A2	Dept. of Anatomy/ Dept. Histology	Abnormalities and disturbances of the inner ear and deafness	Dept. of ENT
	09.00-10.00			Issues of Deafness in Indonesia	Dept. of Public health
	10.00-11.00	SGD1			
	11.00-12.00				
	12.00-13.30	ISHOMA			

	13.30-14.30	Abnormalities and disorders of balance	Dept. of ENT	Practicum of Anatomy B2/Practicum of Histology 1 B3	Dept. of Anatomy/ Dept. Histology
	14.30-15.30	Histology of eye	Dept. of Histology		
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Friday March 9, 2018	08.00-09.00	Infection and inflammation of the nose	Dept. of ENT	Practicum of Anatomy B3/Practicum of Histology 1 B1	Dept. of Anatomy/ Dept. Histology
	09.00-10.00	Physiology of vision	Dept. of physiology		
	10.00-11.00	Practicum Anatomy A2/Practicum Histology 1 A3	Dept. of Anatomy/ Dept. Histology	Abnormalities and disorders of balance	Dept. of ENT
	11.00-12.00			Anatomical pathology in ENT	Dept. of Anatomical pathology
	12.00-13.30	ISHOMA			
	13.30-14.30	Practicum Anatomy A3/Practicum Histology 1 A1	Dept. of Anatomy/ Dept. Histology	Pharmacology of the drug on the ear, nose and throat	Dept. of Pharmacology
	14.30-15.30			Physiology of vision	Dept. of Physiology
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				

The second week

Day / Date	Time	Class A		Class B	
		Subject	Lecturer	Subject	Lecturer
Monday	08.00-09.00	KKD1	Instructor	Islam	Maulana Siregar,

March 12, 2018	09.00-10.00			dan Kemuhammadiyah	S.Ag, MA	
	10.00-11.00	Practical of Histology 2 A1/ Practical of Physiology A2	Dept. Histology/ Dept. Physiology	Infection and inflammation of the nose	Dept. of ENT	
	11.00-12.00					
	12.00-13.30	ISHOMA				
	13.30-14.30	SGD1				
	14.30-15.30					
	15.30-16.00					
	16.00-17.00					
	17.00-18.00					
Tuesday March 13, 2018	08.00-09.00	Islam dan Kemuhammadiyah	Maulana Siregar, S.Ag, MA	KKD1	Instructor	
	09.00-10.00					
	10.00-11.00	SGD2				
	11.00-12.00					
	12.00-13.30	ISHOMA				
	13.30-14.30	Abnormalities and disorders of the nose	Dept. of ENT	Infection and inflammation of the paranasal sinuses	Dept. of ENT	
	14.30-15.30	Pharmacology of the drug on the ear, nose and throat	Dept. of Pharmacology	Abnormalities of the eyelid	Dept. of ophthalmology	
	15.30-16.00					
	16.00-17.00	Practical Test of anatomy				
17.00-18.00						
Wednesday March 14, 2018	08.00-09.00					
	09.00-10.00					
	10.00-11.00	Practical of Histology 2 A2/ Practical of Physiology A3	Dept. Histology/ Dept. Physiology	Abnormalities and disorders of the nose	Dept. of ENT	
	11.00-12.00			Radiology examination on ENT	Dept. of Radiology	
	12.00-13.30	ISHOMA				
	13.30-14.30	Radiology examination on ENT	Dept. of	Practical of Histology 2 B1/	Dept. Histology/	

			Radiology	Practical of Physiology B2	Dept. Physiology	
	14.30-15.30	Infection and inflammation of the paranasal sinuses	Dept. of ENT			
	15.30-16.00					
	16.00-17.00					
	17.00-18.00					
Thursday March 15, 2018	08.00-09.00	KKD2	Instruktur			
	09.00-10.00					
	10.00-11.00	Diskusi Panel 1	ENT and Anatomy depart.	Practical of Histology 2 B2/ Practical of Physiology B3	Dept. Histology/ Dept. Physiology	
	11.00-12.00					
	12.00-13.30	ISHOMA				
	13.30-14.30	Abnormalities of the eyelid	Dept. of ophthalmology	Infection and inflammation of the larynx	Dept. of ENT	
	14.30-15.30	Infection and inflammation of the larynx	Dept. of ENT	Abnormalities in the cornea	Dept. of ophthalmology	
	15.30-16.00					
	16.00-17.00					
	17.00-18.00					
Friday March 16, 2018	08.00-09.00	Practical of Histology 2 A3/ Practical of Physiology A1	Dept. Histology/ Dept. Physiology	KKD2	Instruktur	
	09.00-10.00					
	10.00-11.00	SGD2				
	11.00-12.00					
	12.00-13.30	ISHOMA				
	13.30-14.30	Infection and inflammation of the pharynx	Dept. of ENT	Practical of Histology 2 B3/ Practical of Physiology B1	Dept. Histology/ Dept. Physiology	
	14.30-15.30	Abnormalities in the cornea	Dept. of ophthalmology			
	15.30-16.00					
	16.00-17.00	Remedial Practical Test of Anatomy				
	17.00-18.00					

The third week

Day / Date	Time	Class A		Class B	
		Subject	Lecturer	Subject	Lecturer
Monday March 19, 2018	08.00-09.00	KKD3	Instructor	Islam dan	Maulana Siregar, S.Ag, MA
	09.00-10.00			Kemuhammadiyah	
	10.00-11.00	Eye disorders, anterior chamber, vitreous fluids, iris and ciliary bodies	Dept. of ophthalmology	Anatomical pathology of the eye abnormalities	Dept. of Anatomical pathology
	11.00-12.00	Anatomical pathology of the eye abnormalities	Dept. of Anatomical pathology	Infection and inflammation of the pharynx	Dept. of ENT
	12.00-13.30	ISHOMA			
	13.30-14.30	Practical of Anatomical pathology A1/ Practical of Pharmacology A2		Pharmacology eye medicine	Dept. of Pharmacology
	14.30-15.30			Conjunctival abnormalities	Dept. of ophthalmology
	15.30-16.00				
	16.00-17.00	Practical test of physiology			
17.00-18.00					
Tuesday March 20, 2018	08.00-09.00	Islam dan	Maulana Siregar, S.Ag, MA	KKD3	Instructor
	09.00-10.00	Kemuhammadiyah			
	10.00-11.00	SGD3			
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	Abnormalities in the lacrimal apparatus and sclera	Dept. of ophthalmology	Abnormalities of the head and neck	Dept. of ENT
	14.30-15.30	Emergency on the ears and nose	Dept. of ENT	Abnormalities in the lacrimal apparatus and sclera	Dept. of ophthalmology

	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Wednesday March 21, 2018	08.00-09.00				
	09.00-10.00				
	10.00-11.00				
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	MINITEST			
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
	Thursday March 22, 2018	08.00-09.00	KKD BM	Instructor	Diskusi Panel 2
09.00-10.00					
10.00-11.00		Diskusi Panel 2	ENT and Pharmacology dept.	Eye disorders, anterior chamber, vitreous fluids, iris and ciliary bodies	Dept. of ophthalmology
11.00-12.00				Biochemical of vision system	Biochemistry depart.
12.00-13.30		ISHOMA			
13.30-14.30		Conjunctival abnormalities	Dept. of ophthalmology	Practical of Anatomical pathology B1/ Practical of Pharmacology B2	Dept. of Anatomical natomy/ Dept. Pharmacology
14.30-15.30		Abnormalities of the head and neck	Dept. of ENT		
15.30-16.00					
16.00-17.00					
17.00-18.00					
Friday March 23,	08.00-09.00	Practical of Anatomical pathology A2/ Practical of	Dept. of Anatomical	Emergency on the ears and nose	Dept. of ENT

2018	09.00-10.00	Pharmacology A3	anatomy/ Dept. Pharmacology	Abnormalities of the lens	Dept. of ophthalmology
	10.00-11.00	SGD3			
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	Biochemical of vision system	Biochemistry depart.	Practical of Anatomical pathology B2/ Practical of harmacology B3	Dept. of Anatomical anatomy/ Dept. Pharmacology
	14.30-15.30	Abnormalities of the lens	Dept. of ophthalmology		
	15.30-16.00				
	16.00-17.00	Histology Practical Test			
	17.00-18.00				

The fourth week

Day / Date	Time	Class A		Class B	
		Subject	Lecturer	Subject	Lecturer
Monday March 26, 2018	08.00-09.00	KKD 4	Instructur	Islam dan Kemuhammadiyah	Maulana Siregar, S.Ag, MA
	09.00-10.00				
	10.00-11.00	Practical of Anatomical pathology A3/ Practical of Pharmacology A1	Dept. of Anatomical anatomy/ Dept. Pharmacology	Abnormalities of the optical disc and the eye nerve	Dept. of ophthalmology
	11.00-12.00			Parasitic infections of the eyes	Dept. of Parasitology
	12.00-13.30	ISHOMA			
	13.30-14.30	Parasitic infections of the eyes	Dept. of Parasitology	Practical of Anatomical pathology B3/ Practical of Pharmacology B1	Dept. of Anatomical anatomy/ Dept. Pharmacology
	14.30-15.30	Abnormalities of the	Dept. of ophthalmology		

		optical disc and the eye nerve			
	15.30-16.00				
	16.00-17.00	Remedial Practical Test of Physiology			
	17.00-18.00				
Tuesday March 27, 2018	08.00-09.00	Islam dan Kemuhammadiyah	Maulana Siregar, S.Ag, MA	KKD 4	Instructor
	09.00-10.00				
	10.00-11.00	SGD4			
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	Infective microorganisms in the eye	Dept. of Microbiology	Abnormalities of the accommodation and the refraction	Dept. of ophthalmology
	14.30-15.30	Abnormalities of the accommodation and the refraction	Dept. of ophthalmology	Infective microorganisms in the eye	Dept. of Microbiology
	15.30-16.00				
	16.00-17.00	Practical Test of Pharmacology			
17.00-18.00					
Wednesday March 28, 2018	08.00-09.00	KKD 5	Instructor	Diskusi Panel 3	Ophtalmology and Pharmacology dept.
	09.00-10.00				
	10.00-11.00	Diskusi Panel 3	Ophtalmology and Pharmacology dept.	The Problem of Blindness in Indonesia	Dept. of Public health
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	Pharmacology eye medicine	Dept. of Pharmacology	Abnormalities of the retina	Dept. of ophthalmology
	14.30-15.30	Abnormalities of the retina	Dept. of ophthalmology	Pharmacology eye	Dept. of Pharmacology

				medicine	
	15.30-16.00				
	16.00-17.00	Practical test of Anatomical pathology			
	17.00-18.00				
Thursday March 29, 2018	08.00-09.00	The Problem of Blindness in Indonesia	Dept. of Public health	KKD 5	Instructor
	09.00-10.00	Glaukoma	Dept. of ophthalmology		
	10.00-11.00	SGD4			
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30			Glaukoma	Dept. of ophthalmology
	14.30-15.30				
	15.30-16.00	Remedial practical test of Histology			
	16.00-17.00				
	17.00-18.00				
Friday March 30, 2018	WAFAT ISA AL MASIH				

The fifth week

Day / Date	Time	Class A		Class B	
		Subject	Lecturer	Subject	Lecturer
Monday April 2, 2018	08.00-09.00	KKD LO 1	Instructor	Diskusi Panel 4	Ophtalmology and Physiology depart.
	09.00-10.00				
	10.00-11.00	Diskusi Panel 4	Ophtalmology and Physiology depart.	KKD LO1	Instructor
	11.00-12.00				

	12.00-13.30	ISHOMA			
	13.30-14.30	Remedial Practical Test of Pharmacology			
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Tuesday April 3, 2018	08.00-09.00	KKD LO 2	Instructor		
	09.00-10.00				
	10.00-11.00			KKD LO 2	Instructor
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30	Remedial Practical Test of Anatomical Pathology			
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Wednesday April 4, 2018	08.00-09.00				
	09.00-10.00				
	10.00-11.00	Evaluasi KKD LO1 dan 2	Instructor		
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30			Evaluasi KKD LO1 dan 2	Instructor
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Thursday April 5, 2018	08.00-09.00				
	09.00-10.00				
	10.00-11.00				

	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30				
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				
Friday April 6, 2018	08.00-09.00	UJIAN BLOK			
	09.00-10.00				
	10.00-11.00				
	11.00-12.00				
	12.00-13.30	ISHOMA			
	13.30-14.30				
	14.30-15.30				
	15.30-16.00				
	16.00-17.00				
	17.00-18.00				