		MED 666 -	COURSE IN	FORMATON	
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Neurosurgery (Clinical internship)	MED 666	Phase 6/11-12	<u>120</u>	5	5*
* ECTS credits are the university cred	dits of the o	courses in Yeditep	e University	Faculty of Medicine. Ur	ndergraduate Medical Education Program

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* ECTS credits are the un	iversity credit	s of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program
		GENERAL INFORMATION
	This co	ourse is for Phase VI students of Yeditepe University Faculty of Medicine.
Prerequisites	5	Obligatory (main) courses of Phase V should be completed.
Coordination Of	fice	Yeditepe University Hospital.
Email address for in	iquiries	uture@yeditepe.edu.tr
Attendance		Students are required to attend at least 80% of the classes.
Language of Instru	uction	English
Course Level		Second Cycle including First Cycle Degree (One Tier Program)
Course Type		Elective course
Course Coordina	ator	Uğur Türe, MD Prof
Lecturers/Instruc	ctors	Uğur Türe MD Prof. Ahmet Hilmi Kaya MD Prof. Aikaterini Panteli MD Assist. Prof.
Assistants		
Goals	The aim o	f the elective course is to equip the intern with enriched knowledge and skills in the preferred medical specialty.
Content	courses in t preference profe interpro profession based o performance patients, pa discussion	re internship is a 1-month rotation chosen by the 6th year medical students available from the elective recurriculum. This elective course will guide their future careers and contribute to forming their career is. Thus, intern doctors can deeply understand current developments and specific topics related to their resisional interests. These courses also provide additional benefits such as necessary collaborations, offessional communication, and interaction that will enable career planning processes related to their real career in different countries and institutions. Therefore, the content of the elective course is shaped in the personal needs and expectations of the student. Like the other rotations, evaluation of student will be based on overall clinical performance both in hospital and outpatient clinics, the attitudes toward reticipation in seminars, regular attendance at scientific meetings and outpatient clinics, lectures and case ins, evaluating the level of scientific and practical knowledge and consulting skills. Ratings of students with required projects and will be performed as "passed "or "failed" with an overall evaluation score of 100.

COURSE LEARNING OUTCOMES

At the end of this course, the student should be able to	Program Learning Outcomes	Teaching Methods	Assessment Methods
Recognize general clinical presentation in neurosurgical patients and direct them to a specialized neurosurgery clinic	1.1.1,1.1.4,1.1.7, 2.1.1,2.1.2,2.1.3, 2.3.1,2.3.2, 2.4.1, 2.4.2,2.4.3,2.5.1,2.5.2, 2.5.3,3.1.3,3.2.3	1	A
Describe neurosurgical emergencies (head and spinal trauma, intracerebral hemorrhage and subarachnoid hemorrhage)	1.1.1,1.1.4,1.1.7, 2.1.1,2.1.2,2.1.3, 2.3.1,2.3.2, 2.4.1, 2.4.2,2.4.3,2.5.1,2.5.2, 2.5.3,3.1.3,3.2.3	1	А
Recognize intracranial hypertension and brain herniation syndromes	1.1.1,1.1.4,1.1.7, 2.1.1,2.1.2,2.1.3, 2.3.1,2.3.2, 2.4.1, 2.4.2,2.4.3,2.5.1,2.5.2, 2.5.3,3.1.3,3.2.3	1	А
Describe clinical findings in common brain tumors to refer patients to appropriate centers	1.1.1,1.1.4,1.1.7, 2.1.1,2.1.2,2.1.3, 2.3.1,2.3.2, 2.4.1, 2.4.2,2.4.3,2.5.1,2.5.2, 2.5.3,3.1.3,3.2.3	1	А
5. Describe spinal trauma and spinal cord injury in early period and transfer of patient to appropriate center based on knowledge of immobilization status.	1.1.1,1.1.4,1.1.7, 2.1.1,2.1.2,2.1.3, 2.3.1,2.3.2, 2.4.1, 2.4.2,2.4.3,2.5.1,2.5.2, 2.5.3,3.1.3,3.2.3	1	А

	1.1.1,1.1.4,1.1.7,		
	1.1.1,1.1.4,1.1.7,		
	2.1.1,2.1.2,2.1.3,		
Recognize non-traumatic neck, dorsal and low back pain and differentiate from non- neurosurgical pathologies	2.3.1,2.3.2, 2.4.1,	1	А
	2.4.2,2.4.3,2.5.1,2.5.2,		
	2.5.3,3.1.3,3.2.3		
	1.1.1,1.1.4,1.1.7,		
	2.1.1,2.1.2,2.1.3,		
Describe the management of immobilized patients to prevent bedsores, encourage mobilization and hygiene	2.3.1,2.3.2, 2.4.1,	1	А
	2.4.2,2.4.3,2.5.1,2.5.2,		
	2.5.3,3.1.3,		
	1.1.1,1.1.4,1.1.7,		
	2.1.1,2.1.2,2.1.3,		
 Perform spinal immobilization for the transfer of a neurosurgical patient 	2.3.1,2.3.2, 2.4.1,	1	А
	2.4.2,2.4.3,2.5.1,2.5.2,		
	2.5.3,3.1.3		
	1.1.1,1.1.4,1.1.7,		
	2.1.1,2.1.2,2.1.3,		
 Describe intraoperative patient positioning according to lesion location 	2.3.1,2.3.2, 2.4.1,	1	A
	2.4.2,2.4.3,2.5.1,2.5.2,	1	
	2.5.3,3.1.3		
	1.1.1,1.1.4,1.1.7,		
	2.1.1,2.1.2,2.1.3,		
 Interpret intracranial and spinal pathology in imaging modalities 	2.3.1,2.3.2, 2.4.1,	1	А
	2.4.2,2.4.3,2.5.1,2.5.2,		
	2.5.3,3.1.3, 3.2.2		
11. Displays the proper behavior while delivering information on	2.3.1,2.4.1,2.4.2,	_	_
patient's clinical status	2.5.1,2.5.2,2.5,3	1	A

12. Displays appropriate behavior to peers, patients and their families under stressful conditions	2.3.1,2.4.1,2.4.2, 2.5.1,2.5.2,2.5,3	1	А
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Teaching Methods:	1. Clinical Experience (Learning environments: Inpatient clinic, Outpatient clinic, Imaging rounds, Operating room, Laboratory, Conferences) (Learning activities: Grand round, Patient bedside discussion, Observership, Clinical practice, Case discussion)
Assessment Methods:	A: Internship Evaluation Form (Assessment of Clinical Performance)

	COURSE CONTENT	
Week	Topics	Study Materials
1.	Clinical examination of the neurosurgical patient	Textbooks/ Scientific articles
2.	Intracranial tumors	
3.	Spinal tumors	
4.	Vascular neurosurgery	
5.	Degenerative spine disease	
6.	Spinal stenosis/ spondylolisthesis	
7.	Head trauma	
8.	Spinal trauma	
9.	Hydrocephalus	

	COURSE MATERIALS
Text Books and Reading Material	 Yasargil's Microneurosurgery Vol I- IVB Thieme Handbook of Neurosurgery 10th edition M. Greenberg Thieme Neurology and Neurosurgery Illustrated 5th Edition Elsevier Bate's Guide to Physical Examination and History Taking 12th edition Wolters Kluwer
Additional Resources	Scientific articles

YEDITEPE UNIVERSITY FACULTY OF MEDICINE INTERN PHYSICIAN EVALUATION FORM This form includes evaluation components for intern physicians and is the basis of the passing grade for internship. Intern's name and surname: Intern number: Internship program name: Dates of start and end for internship program:

1. Evaluation of Cognitive Competencies

* The level of competency should be determined based on participation in educational activities (Title 1 on the *Intern Logbook*) and the observations of the Faculty Member / Internship Training Supervisor / Head of the Department for the intern.

		*Competency Level
1.1. Clinical reasoning and decis	ion making	Does not meet expectations
The stages of decision making process		Meets expectations
	agnosis/diagnoses, to order appropriate iate definitive diagnosis and treatment	Above expectations
(interventional or not).	iate definitive diagnosis and treatment	Well above expectations
1.2 Professional knowledge		
1.2. Professional knowledge During the educational activities (case	discussions, educational visits, faculty	Does not meet expectations
member seminars, intern physician ser	minars, etc.) to answer the questions, to	Meets expectations
· · · · · · · · · · · · · · · · · · ·	, to contribute to the discussion, to display	Above expectations
an understanding of the subject.		Well above expectations
1.3. Literature review and semi	•	Does not meet expectations
Preparation based on evidence of high	er scientific strength, presenting the in a reference to essential check points,	Meets expectations
mastering the subject, answering the o	•	Above expectations
		Well above expectations
Explanations, opinions and		'
recommendations based on		
the observations of the		
Faculty Member / Internship		
Training Supervisor / Head of		
the Department		
2. Evaluation of Competencies	for Basic Medical Practice	
	oe determined based on <i>basic medical p</i>	-
	the Faculty Member / Internship Training	g Supervisor / Head of
Department for the intern.	* C	
Designation prosting	* Competency Level	
Basic medicine practices based on <i>Intern Logbook</i>	Does not meet expectations	
based on <i>intern Logbook</i>	Meets expectations	
	Above expectations	
	Well above expectations	
Explanations, opinions and		
recommendations based on		
the observations of the		
Faculty Member / Internship		
Training Supervisor / Head of		
the Department		
3. Evaluation of Professional Co	ompetencies for Medicine	
		* Competency Level
3.1. Communicating with patier	nts and relatives	Does not meet expectations
		Meets expectations
		Above expectations
		Well above expectations
3.2. Compliance in hospital rule	s (i.e. standard operating	Does not meet expectations
procedures, SOPs)		Meets expectations
		Above expectations
		Well above expectations
2 2 Working in a team and call	aborating and communicating with	
team members	and communicating with	Does not meet expectations
team members		Meets expectations
		Above expectations
		Well above expectations
3.4. Performing given tasks		Does not meet expectations
		Meets expectations
		Above expectations
		Dr. Compositions

3.5. Diligence on atteactivities	endance and part	icipation in scienti		Does not meet expectations Meets expectations Above expectations Well above expectations
Explanations, opinior recommendations bathe observations of the Faculty Member / International Training Supervisor / the Department	ased on he ternship		'	
Evaluated Competen	cies	Total Score (Ov each section below, the obtained by the Intern in inadequacy.)	score below 70	Impact on Internship En Score
Cognitive Competend	cies	Score:		20%
Competencies for Base	sic Medical	Score:		60%
Professional Compete Medicine	encies for	Score:		20%
Internship Evaluation Letter Grade:				
	Score Range	Letter Grade	Credit Rati	ng
	90 – 100	AA BA	4.0 3.5	
	1 201 - 20	DA I	3.3	
	80 – 89 70 – 79		3.0	
	70 – 79	BB CB	3.0 2.5	
		BB	3.0 2.5 2.0	
	70 – 79 65 – 69 60 – 64 0 – 59	BB CB	2.5	
	70 – 79 65 – 69 60 – 64	BB CB CC	2.5	
**Attendance	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF	2.5 2.0	Absence > 20%
**Attendance	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA	2.5 2.0	Absence > 20%
**Attendance Decision	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA Absence ≤ 20%	2.5 2.0	
	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA Absence ≤ 20%	2.5 2.0	
	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA Absence ≤ 20% Qualified	2.5 2.0	Unqualified
	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA Absence ≤ 20% Qualified	2.5 2.0	Unqualified
Decision	70 – 79 65 – 69 60 – 64 0 – 59	BB CB CC FF FA Absence ≤ 20% Qualified	2.5 2.0	Unqualified

COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices		Co	ntribut	ion	
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic					х
and clinical medical sciences, behavioral sciences, and social sciences to provide					
health services.					
Competency 1.1.2. Demonstrates a biopsychosocial approach that considers the					х
individual's sociodemographic and sociocultural background without discrimination					
based on language, religion, race, or gender in patient management.					
Competency 1.1.3. Prioritizes the protection and improvement of individuals' and					Х
community's health in the delivery of healthcare services.					
Competency 1.1.4. Performs the necessary actions in the direction of maintaining					х
and improving the state of health as considering the individual, social, social and					
environmental factors affecting health.					
Competency 1.1.5. Provides health education to healthy/ill individuals and their					X
families, as well as to other healthcare professionals, by recognizing the					
characteristics, needs, and expectations of the target audience.					
Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the					X
processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health					
service delivery.					
Competency 1.1.7. Performs interventional and/or non-interventional procedures		X			
safely and effectively for the patient in the processes of diagnosis, treatment, follow-					
up, and rehabilitation.					
Competency 1.1.8. Provides healthcare services considering patient and employee					X
health and safety.					
Competency 1.1.9. Considers changes related to the physical and socio-economic					X
environment at both regional and global scales that affect health, as well as changes					
in the individual characteristics and behaviors of those who seek healthcare services.					
COMPETENCE AREA-2 / Professional Values and Approaches			ntribut	lion	
COMPETENCE AREA-2 / Professional values and Approaches		CO	minibu	1011	
COMPETENCE 2.4. Adopting Professional Ethics and Principles	4	1 2		- 4	-
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5
Competency 2.1.1. Considers good medical practices while performing the	1	2	3	4	5 x
Competency 2.1.1. Considers good medical practices while performing the profession.	1	2	3	4	x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical	1	2	3	4	
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.	1	2	3	4	x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality	1	2	3	4	x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.	1	2	3	4	x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by	1	2	3	4	x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.	1	2	3	4	x
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Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.	1	2	x	4	x x x
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Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.	1	2	x	4	x x x
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Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.	1	2	x	4	x x x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it. COMPETENCE 2.3. Leader-Manager	1	2	x	4	x x x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it. COMPETENCE 2.3. Leader-Manager Competency 2.3.1. Demonstrates exemplary behavior and leadership within the	1	2	x	4	x x x
Competency 2.1.1. Considers good medical practices while performing the profession. Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. COMPETENCE 2.2. Health Advocate Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it. COMPETENCE 2.3. Leader-Manager Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.	1	2	x	4	x x x
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Competency 2.4.2. Displays appropriate behaviors while being aware of the duties					Х	
and responsibilities of healthcare workers within the healthcare team.						
Competency 2.4.3. Works collaboratively and effectively with colleagues and other					X	
professional groups in professional practice.						
COMPETENCE 2.5. Communicator						
Competency 2.5.1. Communicates effectively with patients, their families,					Х	
healthcare professionals, and other occupational groups, institutions and						
organizations.						
Competency 2.5.2. Communicates effectively with individuals and groups who					Х	
require a special approach and have different sociocultural characteristics.						
Competency 2.5.3. Demonstrates a patient-centered approach that involves the					Х	
patient in decision-making mechanisms during the diagnosis, treatment, follow-up,						
and rehabilitation processes.						
COMPETENCE AREA-3 / Professional and Personal Development			Contribution			
COMPETENCE 3.1. Scientific and Analytical Approach	1	2	3	4	5	
Competency 3.1.1. Plans and implements scientific research, as necessary, for the					Х	
population it serves, and utilizes the results obtained, as well as those from other						
research, for the benefit of the community.						
Competency 3.1.2. Accesses and critically evaluates current literature related to					Х	
their profession.						
Competency 3.1.3. Applies evidence-based medicine principles in the clinical					Х	
decision-making process.						
Competency 3.1.4. Uses information technologies to enhance the effectiveness of					Х	
healthcare, research, and education activities.						
COMPETENCE 3.2. Lifelong Learner						
Competency 3.2.1. Manages effectively individual study processes and career					Х	
development.						
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new					Х	
information with existing knowledge, applying to professional situations, and		l		1		
adapting to changing conditions throughout professional career.						
					X	

ECTS ALLOCATION							
Activity	Quantity	Duration (Hours)	Total Workload (Hours)				
Clinical Experience	45	2	90				
Internship Guide Compilation	20	1	20				
Independent Learning Hours	45	1	45				
Assessment	2	2.5	5				
Total Workload			160				
Total Workload / 30 (h)			5.3				
ECTS Credits			5				