Course description

Part 1

General information about the course	
1. Major of study: medicine	**2. Study level:** unified MSc **3. Form of study:** intramural
4. Year: VI	**5. Semester: spring**
6. Course name: Internal Medicine electives	
7. Course status: required	
8. Course contents and assigned learning outcomes blood and bone marrow disorders: aplastic anemia, granulocytopenia, agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, coagulation disorders, thrombophilia, life threatening conditions in hematology, hematological disorders in other diseases Learning outcomes / reference to learning outcomes indicated in the standards For knowledge – student acquires basic knowledge about blood and bone marrow disorders: aplastic anemia, granulocytopenia, agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, coagulation disorders, thrombophilia, life threatening conditions in hematology, hematological disorders in other diseases For skills student: is able to take patient's history, perform physical examination, knows how to recognize life threatening disorders, can plan patient's diagnostics, therapy and prophylaxis, can choose which patients need to be hospitalized and which patients can be treated out-patiently, can interpret lab tests and can identify the possible causes of abnormal results For social competencies student knows how to behave and how to create and maintain good relationship with a patient, obeys the rule that patient's wellbeing is the most important principle, knows patients' laws and how to keep physician-patient privilege, knows about his own limitations and realizes the need of constant self-education	
9. Number of hours for the course **(total number of hours for internal medicine elective)**	**110**
10. Number of ECTS points for the course ****for the whole block of internal medicine elective***	**5**

11. Methods of verification and evaluation of learning outcomes

Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – MCQ	*
Skills	Report Observation Practical exam	*
Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level
Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level
Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level
Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level
Unstatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course	
12. Department of Hematology and Bone Marrow Transplantation, Dąbrowskiego 24, 40-032 Katowice, e-mail: klinhem@sum.edu.pl	
13. Name of the course coordinator: Professor Grzegorz Helbig PhD, MD	
14. Prerequisites for knowledge, skills and other competencies: For knowledge – student acquires basic knowledge about blood and bone marrow disorders: aplastic anemia, granulocytopenia, agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, coagulation disorders, thrombophilia, life threatening conditions in hematology, hematological disorders in other diseases For skills student: is able to take patient's history, perform physical examination, knows how to recognize life threatening disorders, can plan patient's diagnostics, therapy and prophylaxis, can choose which patients need to be hospitalized and which patients can be treated out-patiently, can interpret lab tests and can identify the possible causes of abnormal results For social competencies student knows how to behave and how to create and maintain good relationship with a patient, obeys the rule that patient's wellbeing is the most important principle, knows patients' laws and how to keep physician-patient privilege, knows about his own limitations and realizes the need of constant self-education	

15. Number of students in groups	In accordance with the Senate Resolution
16. Study materials	literature – as provided below
17. Location of classes	Dept. of Hematology and Bone Marrow Transplantation
18. Location and time for contact hours	Dept. Of Hematology and Bone Marrow Transplantation, time of contact hours: individually scheduled

19. Learning outcomes

Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	The student acquires knowledge of diagnosis and treatment of anemias.	E.W.7 p. 6)
P_W02 / C_K02	The student acquires knowledge of diagnosis and treatment of coagulopathies.	E.W.7 p. 6)
P_W03 / C_K03	The student acquires knowledge of acute leukemias and myelodysplastic syndromes.	E.W.7 p. 6)
P_W04 / C_K04	The student acquires knowledge of diagnosis and treatment of myloproliferative neoplasms, spleen disorders and hypersplenism.	E.W.7 p. 6)

P_W04 / C_K04	The student acquires knowledge of diagnosis and treatment of lymphoproliferative neoplasms.	E.W.7 p. 6)
P_W04 / C_K04	The student acquires knowledge of the principles of hematooncological treatment.	E.W.7 p. 6)
P_U01 / C_S01	The student takes patient history	E.U.1
P_U02 / C_S02	The student performs physical examination	E.U.3
P_U03 / C_S03	The student recognizes life threatening disorders in hematoly	E.U.14
P_U04 / C_S04	The student plans diagnostic procedures, treatment and prophylaxis	E.U.16
P_U05/ C_S05	The student chooses which patients need to be hospitalized and which patients can be treated out-patiently	E.U.20
P_U06/ C_S06	The student interprets lab tests and identifies the possible causes of abnormal results	E.U.24

20. Forms and topics of classes	**Number of hours**
23.3. Labs	
Patients after BMT. Out-patient posttransplant care. Complications after stem cell transplant.	**4**
Acute leukemias. Demonstration of patients. Treatment options: chemotherapy, transplantation.	**4**
Non Hodgkin Lymphomas - demonstration of patients. Indications for stem cell transplantation.	**4**
Multiple myeloma- demonstration of patients - standard chemotherapeutic treatment, autologous transplantation	**4**
Chronic lymphocytic leukemia and related disorders- demonstration of patients.	**2**
Hodgkin Disease - demonstration of patients. Treatment options: chemotherapy, radiotherapy, immunotherapy, stem cell transplant.	**2**

24. Readings

Oxford handbook of clinical haematology D.Provan, T. Baglin, I. Dokal, J de Vos. 4th Edition

25. Detail evaluation criteria

In accordance with the recommendations of the inspection bodies
Completion of the course – student has achieved the assumed learning outcomes
Detail criteria for completion and evaluation of the course are specified in the course regulations