



UNIVERSITÀ DEGLI STUDI DI PALERMO

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| DEPARTMENT | Biomedicina, Neuroscienze e Diagnostica avanzata | | |
| ACADEMIC YEAR | 2023/2024 | | |
| MASTER'S DEGREE (MSC) | MEDICINE AND SURGERY | | |
| INTEGRATED COURSE | HYGIENE AND INDUSTRIAL MEDICINE - INTEGRATED COURSE | | |
| CODE | 13293 | | |
| MODULES | Yes | | |
| NUMBER OF MODULES | 2 | | |
| SCIENTIFIC SECTOR(S) | MED/44, MED/42 | | |
| HEAD PROFESSOR(S) | VITALE FRANCESCO MAZZUCCO WALTER CASUCCIO ALESSANDRA | Professore Ordinario Professore Ordinario Professore Ordinario | Univ. di PALERMO Univ. di PALERMO Univ. di PALERMO |
| OTHER PROFESSOR(S) | CANNIZZARO EMANUELE VITALE FRANCESCO MAZZUCCO WALTER CASUCCIO ALESSANDRA LACCA GUIDO FIRENZE ALBERTO | Professore Associato Professore Ordinario Professore Ordinario Professore Ordinario Ricercatore Professore Associato | Univ. di PALERMO Univ. di PALERMO Univ. di PALERMO Univ. di PALERMO Univ. di PALERMO Univ. di PALERMO |
| CREDITS | 8 | | |
| PROPAEDEUTICAL SUBJECTS | | | |
| MUTUALIZATION | | | |
| YEAR | 5 | | |
| TERM (SEMESTER) | 1° semester | | |
| ATTENDANCE | Mandatory | | |
| EVALUATION | Out of 30 | | |
| TEACHER OFFICE HOURS | <p>CANNIZZARO EMANUELE Monday 09:30 11:00 Medicina del Lavoro. Primo piano stanza docente</p> <p>CASUCCIO ALESSANDRA Tuesday 11:00 13:00 Si riceve previo appuntamento con il docente scrivendo alla email: alessandra.casuccio@unipa.it La sede dello studio è sita al primo piano del dipartimento di Promozione della Salute, Materno Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro" (Policlinico), via del vespro, 133, 90127 Palermo</p> <p>Thursday 11:00 13:00 Si riceve previo appuntamento con il docente scrivendo alla email: alessandra.casuccio@unipa.it La sede dello studio è sita al primo piano del dipartimento di Promozione della Salute, Materno Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro" (Policlinico), via del vespro, 133, 90127 Palermo</p> <p>FIRENZE ALBERTO Friday 14:00 15:00 Dipartimento di Scienze per la promozione della Salute e Materno Infantile "G. D'Alessandro".</p> <p>LACCA GUIDO Monday 11:00 13:00 Dipartimento Promise Istituto di Medicina del Lavoro</p> <p>MAZZUCCO WALTER Friday 10:00 12:00 Primo piano Edificio via del Vespro 133 presso ex Istituto di Igiene del Dipartimento PROSAMI</p> | | |

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| | VITALE FRANCESCO Monday 13:00 14:00 studio sito al primo piano plesso Igiene e Microbiologia - Dipartimento PROMISE, via del Vespro, 133, 90127 Palermo |
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| PREREQUISITES | Basic knowledge of the diseases which are prevalent in the general population and the associated risk factors . General Elements of epidemiology and health demographics , basic concepts on prevention and health system . |
| LEARNING OUTCOMES | <p>Knowledge and ability to understand: Knowing the determinants and major health risk factors and disease and the interaction between population and his physical and social environment. Knowing the etiology and natural history of acute and chronic diseases. Understand the epidemiology, health economics and the basics of health management. Capacity to apply knowledge and understanding: Knowing how to properly evaluate health problems and know how to advise patients taking into account physical, psychological, social and cultural rights. Learn about the appropriate use of human resources, diagnostic issues , the therapeutic interventions and approach to technologies dedicated to health care. Know the main determinants of health and disease, such as lifestyle, genetic factors, demographic, environmental, socio-economic, psychological and cultural factors in the overall population; Being aware of the important role of the determinants of health and disease, and capacity to know how to take adequate preventive and protective measures against diseases, injuries and accidents, maintaining and promoting the health of the individual, the family and the community. Know the status of international health, global trends in morbidity and mortality of significant chronic illness from a social point of view, the impact of migration, trade, and environmental factors on health and the role of international health organizations. Gain an understanding of the need for a shared responsibility collective interventions in health promotion that requires close collaboration with the population, and a multidisciplinary approach, including health professionals and also intersectoral collaboration. Knowing the basic organization of health systems, including policies, organization, financing, restrictive measures on the costs and the principles of efficient management of the proper provision of health care. Demonstrate a good understanding of the mechanisms that underlie equity access to health care, effectiveness and quality of care. Knowing how to make proper use of local surveillance data, regional and national, demography and epidemiology in health decisions. Knowing the basics to be able to take correct decisions, when necessary, in the issues related to health care. Making judgments: Acquiring skills to integrate knowledge and handle complexity, as well as to make judgments based on incomplete or limited information, but that include reflecting on social and ethical responsibility linked to the application of their knowledge and judgments. Enable communication: Knowing how to clearly communicate the findings as well as the knowledge and rationale underpinning these, to specialist and non-specialists. Capacity Learning: Being able to collect, organize and interpret correctly the health and biomedical information from different resources and databases available; Knowing how to use the technology associated to information and communications as a right support to diagnostic procedures, therapeutic and preventive interventions and for surveillance and monitoring of the health status.</p> |
| ASSESSMENT METHODS | <p>The exam consists in a written test and oral examination. WRITTEN TEST The assessment of learning involves a written and an oral test. The written test will include multiple choice questions on Hygiene and Occupational Medicine topics. The number of questions included in the written assignment will be weighted by the number of CFU of each module of the integrated course (19 questions for Hygiene and 11 for Occupational Medicine). The student is asked to provide correct answers to the questions proposed in order to achieve a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge. Students scoring from 18 to 30 will access the oral examination. ORAL EXAMINATION The oral examination focuses as first on a deeper investigation of the argument proposed within the written test whose answers were incorrect and/or not exhaustive. The number of questions is a function of the incorrect not exhaustive answers provided within the written test. The board of examiners reserves the right to explore other topics included in the program. The student is asked to provide correct and complete answers to the questions proposed (presented also in the form of examples) in order to achieve at least a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge. METHOD OF FINAL EVALUATION The final evaluation of the examination will consider three dimensions: i) the mastery of the topic; ii) the ability of applicative knowledge and iii) the property of language. The board of examiners will evaluate each of the previous dimensions as follows: "Not evaluable", "Poor", "Fair", "Good" and "Excellent". Therefore, the assessment method will be structured in the following scores: Insufficient: if at least two "Not evaluable" and no "Excellent" 18-23: if at least two "Fair" and no "Excellent" 24-27: if at least two "Good" and no "Excellent" 25-27: If one "Excellent" 28-30 cum laude: if two to three "Excellent" The score range will allow the teacher to take into account the context factors (such as the active participation to classes or the presence of a disability).</p> |
| TEACHING METHODS | frontal lessons |

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| PREREQUISITES | Basic knowledge of the diseases which are prevalent in the general population and the associated risk factors . General Elements of epidemiology and health demographics , basic concepts on prevention and health system . |
| LEARNING OUTCOMES | <p>Knowledge and ability to understand: Knowing the determinants, major health risk factors, disease, and the interaction between population and his physical and social environment. Knowing the etiology and natural history of acute and chronic diseases. Understand the epidemiology, health economics and the basics of health management. Capacity to apply knowledge and understanding: Knowing how to properly evaluate health problems and know how to advise patients taking into account physical, psychological, social and cultural rights. Learn about the appropriate use of human resources, diagnostic issues, the therapeutic interventions and approach to technologies dedicated to health care. Know the main determinants of health and disease, such as lifestyle, genetic factors, and demographic, environmental, socio-economic, psychological and cultural factors in the overall population. Being aware of the important role of the determinants of health and disease, and capacity to know how to take adequate preventive and protective measures against diseases, injuries and accidents, maintaining and promoting the health of the individual, the family and the community. Know the status of international health, global trends in morbidity and mortality of significant chronic illness from a social point of view, the impact of migration, trade, and environmental factors on health and the role of international health organizations. Gain an understanding of the need for a shared responsibility collective intervention in health promotion that requires close collaboration with the population, and a multidisciplinary approach, including health professionals and intersectoral collaboration. Knowing the basic organization of health systems, including policies, organization, financing, restrictive measures on the costs and the principles of efficient management of the proper provision of health care. Demonstrate a good understanding of the mechanisms that underlie equity access to health care, effectiveness and quality of care. Knowing how to make proper use of local surveillance data, regional and national, demography and epidemiology in health decisions. Knowing the basics to be able to take correct decisions, when necessary, in the issues related to health care. Making judgments: Acquiring skills to integrate knowledge and handle complexity, as well as to make judgments based on incomplete or limited information, but that include reflecting on social and ethical responsibility linked to the application of their knowledge and judgments. Enable communication: Knowing how to clearly communicate the findings as well as the knowledge and rationale underpinning these, to specialist and non- specialists. Capacity Learning: Being able to collect, organize and interpret correctly the health and biomedical information from different resources and databases available; Knowing how to use the technology associated to information and communications as a right support to diagnostic procedures, therapeutic and preventive interventions and for surveillance and monitoring of the health status.</p> |
| ASSESSMENT METHODS | <p>The exam consists in a written test and oral examination. The assessment of learning involves a written and an oral test. The written test will include multiple choice questions on Hygiene and Occupational Medicine topics. The number of questions included in the written assignment will be weighted by the number of CFU of each module of the integrated course (19 questions for Hygiene and 11 for Occupational Medicine). The student is asked to provide correct answers to the questions proposed in order to achieve a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge. Students scoring from 18 to 30 will access the oral examination. The oral examination focuses as first on a deeper investigation of the argument proposed within the written test whose answers where incorrect and/or not exhaustive. The number of questions is a function of the incorrect not exhaustive answers provided within the written test. The board of examiners reserves the right to explore other topics included in the program. The student is asked to provide correct and complete answers to the questions proposed (presented also in the form of examples) in order to achieve at least a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge. METHOD OF FINAL EVALUATION The final evaluation of the examination will consider three dimensions: i) the mastery of the topic; ii) the ability of applicative knowledge and iii) the property of language. The board of examiners will evaluate each of the previous dimensions as follows: "Not evaluable", "Poor", "Fair", "Good" and "Excellent". Therefore, the assessment method will be structured in the following scores: Insufficient: if at least two "Not evaluable" and no "Excellent" 18-23: if at least two "Fair" and no "Excellent" 24-27: if at least two "Good" and no "Excellent" 25-27: If one "Excellent" 28-30 cum laude: if two to three "Excellent" The score range will allow the teacher to take into account the context factors (such as the active participation to classes or the presence of a disability).</p> |
| TEACHING METHODS | frontal lessons |

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| PREREQUISITES | Basic knowledge of the diseases which are prevalent in the general population and the associated risk factors . General Elements of epidemiology and health demographics , basic concepts on prevention and health system . |
| LEARNING OUTCOMES | <p>Knowledge and ability to understand: Knowing the determinants and major health risk factors and disease and the interaction between population and his physical and social environment. Knowing the etiology and natural history of acute and chronic diseases. Understand the epidemiology, health economics and the basics of health management.</p> <p>Capacity to apply knowledge and understanding: Knowing how to properly evaluate health problems and know how to advise patients taking into account physical, psychological, social and cultural rights. Learn about the appropriate use of human resources, diagnostic issues , the therapeutic interventions and approach to technologies dedicated to health care. Know the main determinants of health and disease, such as lifestyle, genetic factors, demographic, environmental, socio-economic, psychological and cultural factors in the overall population; Being aware of the important role of the determinants of health and disease, and capacity to know how to take adequate preventive and protective measures against diseases, injuries and accidents, maintaining and promoting the health of the individual, the family and the community. Know the status of international health, global trends in morbidity and mortality of significant chronic illness from a social point of view, the impact of migration, trade, and environmental factors on health and the role of international health organizations. Gain an understanding of the need for a shared responsibility collective interventions in health promotion that requires close collaboration with the population, and a multidisciplinary approach, including health professionals and also intersectoral collaboration. Knowing the basic organization of health systems, including policies, organization, financing, restrictive measures on the costs and the principles of efficient management of the proper provision of health care. Demonstrate a good understanding of the mechanisms that underlie equity access to health care, effectiveness and quality of care. Knowing how to make proper use of local surveillance data, regional and national, demography and epidemiology in health decisions. Knowing the basics to be able to take correct decisions, when necessary, in the issues related to health care.</p> <p>Making judgments: Acquiring skills to integrate knowledge and handle complexity, as well as to make judgments based on incomplete or limited information, but that include reflecting on social and ethical responsibility linked to the application of their knowledge and judgments.</p> <p>Enable communication: Knowing how to clearly communicate the findings as well as the knowledge and rationale underpinning these, to specialist and non-specialists.</p> <p>Capacity Learning: Being able to collect, organize and interpret correctly the health and biomedical information from different resources and databases available; Knowing how to use the technology associated to information and communications as a right support to diagnostic procedures, therapeutic and preventive interventions and for surveillance and monitoring of the health status.</p> |
| ASSESSMENT METHODS | <p>The exam consists in a written test and oral examination. The assessment of learning involves a written and an oral test. The written test will include multiple choice questions on Hygiene and Occupational Medicine topics. The number of questions included in the written assignment will be weighted by the number of CFU of each module of the integrated course (19 questions for Hygiene and 11 for Occupational Medicine). The student is asked to provide correct answers to the questions proposed in order to achieve a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge. Students scoring from 18 to 30 will access the oral examination. The oral examination focuses as first on a deeper investigation of the argument proposed within the written test whose answers where incorrect and/or not exhaustive. The number of questions is a function of the incorrect not exhaustive answers provided within the written test. The board of examiners reserves the right to explore other topics included in the program. The student is asked to provide correct and complete answers to the questions proposed (presented also in the form of examples) in order to achieve at least a sufficient score in terms of general understanding of the topics, as well as a minimum of applicative knowledge.</p> <p>The final evaluation of the examination will consider three dimensions: i) the mastery of the topic; ii) the ability of applicative knowledge and iii) the property of language. The board of examiners will evaluate each of the previous</p> |

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| | dimensions as follows: "Not evaluable", "Poor", "Fair", "Good" and "Excellent". Therefore, the assessment method will be structured in the following scores: Insufficient: if at least two "Not evaluable" and no "Excellent"; 18-23 if at least two "Fair" and no "Excellent"; 24-27 if at least two "Good" and no "Excellent"; 25-27 If one "Excellent"; 28-30 cum laude: if two to three "Excellent". The score range will allow the teacher to take into account the context factors (such as the active participation to classes or the presence of a disability). |
| TEACHING METHODS | frontal lessons |

| MODULE OCCUPATIONAL MEDICINE <i>Prof. ALBERTO FIRENZE - Sede CHIRONE, - Sede CHIRONE</i> | |
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| SUGGESTED BIBLIOGRAPHY | |
| - F. Tomei et al: Manuale di Medicina del Lavoro. Piccin editore, 2018 - L. Ambrosi, V. Foa' - Trattato di Medicina del Lavoro seconda edizione (UTET Ed. 2003) - G. Scansetti-P.G. Piolatto- G. Perrelli: "Medicina del Lavoro", Edizione Minerva medica, Torino, 2000 - D. Lgs 81/2008 e successive integrazioni e modifiche - A. Firenze et al: Conoscere per gestire il rischio in sanità 2021, SEU editore | |
| AMBIT | 50409-Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |
| EDUCATIONAL OBJECTIVES OF THE MODULE | |
| To present, analyze and discuss the technical and applicative methodologies of prevention, health surveillance and control to improve the health of workers. Induce medical training aimed at the assessment and resolution of public health issues related to occurrence of health events in the workplace. | |

SYLLABUS

| Hrs | Frontal teaching |
|-----|---|
| 1 | - Methodological approach in Occupational Medicine |
| 1 | - Classification of risks in the workplace |
| 1 | - Concepts of primary, secondary and tertiary prevention in the occupational field |
| 15 | - Clinical classification of the main professional pathologies caused by physical, chemical, biological agents |
| 2 | - Biological monitoring: define individual susceptibility |
| 2 | - Training in Occupational Medicine |
| 2 | - Legislation on the prevention of occupational diseases and accidents at work |
| 2 | - Elements of insurance against accidents and occupational diseases |
| 2 | - Health effects of work activities with risks related to work organization (shift work, posture, MMC, stress) |
| 2 | - Assessment of suitability for specific work: correlation between risk, clinical and instrumental, environmental data and legislative references |

MODULE OCCUPATIONAL MEDICINE

Prof. EMANUELE CANNIZZARO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

- L. Ambrosi, V. Foa' - Trattato di Medicina del Lavoro seconda edizione (UTET Ed. 2003)
- G. Scansetti-P.G. Piolatto- G. Perrelli: "Medicina del Lavoro", Edizione Minerva medica, Torino, 2000
- D. Lgs 81/2008 e successive integrazioni e modifiche

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| AMBIT | 50409-Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

The objectives are to present, analyze and discuss the technical and practical methods of prevention, describe the health surveillance and control activities for the improvement of workers' health. It also intends to provide training geared to support the evaluation and resolution of public health problems related to the occurrence of health events in the workplace.

The evaluation of the student will take place through a written test and an oral test.

The written test will include multiple choice questions or, where appropriate, short answer open questions on topics of Hygiene, Occupational Medicine and Medical Statistics. The number of questions included in the written test will be weighted by the number of credits of each module of the integrated course.

An evaluation of the written test with a score between 0 and 17 points will automatically result in failure of the exam.

Otherwise, students who have scored between 18 and 30 points will access the oral exam. The overall evaluation of the exam will be as follows:

- Insufficient basic knowledge of the exam topic: exam failed
- Basic knowledge of the exam topic and sufficient capacity for synthesis and presentation: grade between 18 and 23
- In-depth knowledge of the exam topic and good synthesis and presentation skills: grade between 24 and 27
- Excellent knowledge of the exam topic and appropriate correlation with other relevant topics and excellent synthesis and presentation skills: grade between 28 and 30 with honors.

SYLLABUS

| Hrs | Frontal teaching |
|-----|---|
| 1 | Methodological approach in occupational health |
| 1 | Classification of risks in the workplace |
| 1 | Concepts of primary prevention, secondary and tertiary education in the workplace |
| 15 | Clinical framework for the main occupational diseases caused by physical, chemical, biological |
| 2 | Biological Monitoring: defining individual susceptibility |
| 2 | Training in Occupational Medicine |
| 2 | Legislation on prevention of occupational diseases and accidents at work |
| 2 | Elements of insurance against accidents and occupational diseases |
| 2 | Health effects of work activities with risks related to the organization of work (shift work, posture, MMC, stress) |
| 2 | Findings of suitability to the specific job: correlation between risk, clinical and instrumental data, environmental and legislative references |

MODULE GENERAL AND APPLIED HYGIENE

Prof. FRANCESCO VITALE - Sede CHIRONE, - Sede CHIRONE

SUGGESTED BIBLIOGRAPHY

Igiene, Epidemiologia ed Organizzazione Sanitaria orientate per problemi

F.Vitale, M.Zagra

Elsevier ISBN 978-8821434242

Igiene Medicina Preventiva Sanita' Pubblica

W. Ricciardi

Monduzzi Editore, Bologna

Igiene edilizia ed Ambientale

C. Signorelli

Societa' Editrice Universo

Manuale di Programmazione e Organizzazione Sanitaria

Damiani-Ricciardi

Idelson-gnocchi

Manuale di Epidemiologia per la Sanita' Pubblica

Faggiano-Donato-Barbone

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| AMBIT | 50406-Scienze umane, politiche della salute e management sanitario |
| INDIVIDUAL STUDY (Hrs) | 75 |
| COURSE ACTIVITY (Hrs) | 50 |

EDUCATIONAL OBJECTIVES OF THE MODULE

To present , analyze and discuss the theoretical and practical methods of prevention , monitoring and control to improve the population's health status .

Induce a medical education oriented to the evaluation and resolution of problems of Public health related to the occurrence of events in the life and work environments also in relation to national and regional health care organization .

SYLLABUS

| Hrs | Frontal teaching |
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| 5 | - Definition and objectives of Hygiene and Public Health - Demographic parameters of interest for health and health indicators of a population |
| 5 | - Definition and general objectives of Primary, Secondary and Tertiary level of Prevention with related application methods |
| 5 | - Strategic objectives of prevention: control , elimination and eradication of diseases |
| 4 | - Disinfection practices , environmental vectors control and sterilization - Biological risk assessment in health care workers |
| 5 | - Epidemiology and primary and secondary prevention of infectious diseases - the concept of active and passive Immunoprophylaxis |
| 6 | - Vaccines : constitution, routes of administration , application strategies in different Public Health contexts, evaluating the effectiveness of vaccines . Required and recommended immunizations , current immunization schedule in Italy and in Sicily - Immunoglobulins : types , modalities ' of administration , effectiveness. |
| 5 | - Epidemiology and prevention of chronic diseases : primary prevention techniques , secondary and tertiary applications and strategies . |
| 5 | - Food hygiene and safety: food storage, HACCP , food poisoning |
| 5 | - Environmental Hygiene : environmental matrices , air pollution , water and the water cycle , waste management and reflexes to human health |
| 5 | Health Organization in Italy : the National Health Plan , Health Authorities , Essential Health Care Levels - Clinical Governance and its instruments for the control and reduction of clinical- risk, HTA |

**MODULE
OCCUPATIONAL MEDICINE**

Prof. GUIDO LACCA - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY

COMPENDIO DI MEDICINA DEL LAVORO (G. Lacca, A. Miceli, S. Bastone) - Edizioni Minerva Medica (2019)
Lorenzo Alessio, Pietro Apostoli "Manuale di medicina del lavoro e igiene industriale" - Piccin-Nuova Libreria

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| AMBIT | 50409-Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Identification of issues related to environmental conditions of work, preventive interventions for resolution. Knowledge of the rules that protect workers' health.

SYLLABUS

| Hrs | Frontal teaching |
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| 3 | Hygienic principles |
| 3 | Risk assessment |
| 3 | Accidents at work and occupational disease. Other forms of insurance |
| 3 | The physical hazards (ionizing and non-ionizing radiation, noise, vibration, electricity, ROA) |
| 3 | The chemical risks (chemicals, carcinogenic, mutagenic) |
| 3 | The biological risks (occupational infections) |
| 3 | The organizational risks (manual handling of loads, VDU, awkward postures) |
| 3 | Stress index and thermal comfort |
| 3 | The evaluation of work-related stress |
| 3 | Organ pathology |

**MODULE
GENERAL AND APPLIED HYGIENE**

Prof. WALTER MAZZUCCO - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY

Igiene, Epidemiologia ed Organizzazione Sanitaria orientate per problemi F.Vitale, M.Zagra Elsevier Igiene Medicina Preventiva Sanita' Pubblica W. Ricciardi Monduzzi Editore, Bologna Igiene edilizia ed Ambientale C. Signorelli Societa' Editrice Universo Manuale di Programmazione e Organizzazione Sanitaria Damiani-Ricciardi Idelson-gnocchi Manuale di Epidemiologia per la Sanita' Pubblica Faggiano-Donato-Barbone

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| AMBIT | 50406-Scienze umane, politiche della salute e management sanitario |
| INDIVIDUAL STUDY (Hrs) | 75 |
| COURSE ACTIVITY (Hrs) | 50 |

EDUCATIONAL OBJECTIVES OF THE MODULE

To present , analyze and discuss the theoretical and practical methods of prevention , monitoring and control to improve the population's health status .
Induce a medical education oriented to the evaluation and resolution of problems of Public health related to the occurrence of events in the life and work environments also in relation to national and regional health care organization .

SYLLABUS

| Hrs | Frontal teaching |
|-----|--|
| 5 | - Definition and objectives of Hygiene and Public Health - Demographic parameters of interest for health and health indicators of a population |
| 5 | - Definition and general objectives of Primary, Secondary and Tertiary level of Prevention with related application methods |
| 5 | - Strategic objectives of prevention: control , elimination and eradication of diseases |
| 4 | - Disinfection practices , environmental vectors control and sterilization - Biological risk assessment in health care workers |
| 5 | - Epidemiology and prevention of infectious diseases - Active and passive Immunoprophylaxis |
| 6 | - Vaccines : constitution, routes of administration , application strategies in different Public Health contexts, evaluating the effectiveness of vaccines . Required and recommended immunizations , current immunization schedule in Italy and in Sicily - Immunoglobulins : types , modalities ' of administration , effectiveness. |
| 5 | - Epidemiology and prevention of chronic diseases: primary prevention techniques , secondary and tertiary applications and strategies . |
| 5 | - Food hygiene and safety: HACCP, food poisoning |
| 5 | - Environmental Hygiene : environmental matrices , air pollution , water and the water cycle , waste management and reflexes to human health |
| 5 | Health Organization in Italy : the National Health Plan , Health Authorities , Essential Health Care Levels - Clinical Governance and its instruments for the control and reduction of clinical- risk, HTA |

MODULE GENERAL AND APPLIED HYGIENE

Prof.ssa ALESSANDRA CASUCCIO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

F.Vitale, M.Zagra - Igiene, Epidemiologia ed Organizzazione Sanitaria orientate per problemi. Elsevier ISBN 978-8821434242
W. Ricciardi - Igiene Medicina Preventiva Sanita' Pubblica Monduzzi Editore, Bologna
C. Signorelli - Igiene edilizia ed Ambientale, Societa' Editrice Universo
Damiani-Ricciardi - Manuale di Programmazione e Organizzazione Sanitaria, Idelson-gnocchi
Faggiano-Donato-Barbone - Manuale di Epidemiologia per la Sanita' Pubblica

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| AMBIT | 50406-Scienze umane, politiche della salute e management sanitario |
| INDIVIDUAL STUDY (Hrs) | 75 |
| COURSE ACTIVITY (Hrs) | 50 |

EDUCATIONAL OBJECTIVES OF THE MODULE

To present , analyze and discuss the theoretical and practical methods of prevention , monitoring and control to improve the population's health status .
Induce a medical education oriented to the evaluation and resolution of problems of Public health related to the occurrence of events in the life and work environments also in relation to national and regional health care organization .

SYLLABUS

| Hrs | Frontal teaching |
|-----|--|
| 5 | - Definition and objectives of Hygiene and Public Health - Demographic parameters of interest for health and health indicators of a population |
| 5 | - Current healthcare flows. - Definition and general objectives of Primary, Secondary and Tertiary level of Prevention with related application methods |
| 5 | Epidemiological studies: descriptive and observational epidemiology. Experimental epidemiology |
| 5 | - Strategic objectives of prevention: control , elimination and eradication of diseases. -Disinfection practices , environmental vectors control and sterilization - Biological risk assessment in health care workers |
| 5 | - Epidemiology and primary and secondary prevention of infectious diseases - the concept of active and passive Immunoprophylaxis Vaccines : constitution, routes of administration , application strategies in different Public Health contexts, evaluating the effectiveness of vaccines . Required and recommended immunizations , current immunization schedule in Italy and in Sicily - Immunoglobulins : types , modalities ' of administration , effectiveness. |
| 5 | Diseases preventable by hexavalent vaccination. MPRV and anti-rotavirus vaccine. Anti-meningococcal and anti HPV vaccination antipneumococcal e anti zoster vaccination |
| 5 | Epidemiology and chronic-degenerative diseases. Primary and secondary prevention of chronic degenerative diseases |
| 5 | - Screenings - Food hygiene and safety: food storage, HACCP , food poisoning |
| 5 | Environmental Hygiene : environmental matrices , air pollution , water and the water cycle , waste management and reflexes to human health |
| 5 | Health Organization in Italy : the National Health Plan , Health Authorities , Essential Health Care Levels - Clinical Governance and its instruments for the control and reduction of clinical- risk, HTA |