FULL CURRICULUM

MODULE 1

MODULE: INTERDISCIPLINARY AND INTERPROFESSIONAL COMMUNICATION AND APPROACH TO DIGITAL TECHNOLOGY MANAGEMENT	
SUBMODULES	*Communication tools and strategies* *Data sharing and privacy, cybersecurity* *Ethical, deontological and legal considerations* *Change management in healthcare* *Innovation in eHealth* *The role of Artificial Intelligence in healthcare*
GENERAL OBJECTIVES	*The participant will be able to:* *-Employ diverse digital communication tools and strategies to facilitate interaction and engagement.* *-Understand and implement steps to protect data and devices and prevent cyber attacks.* *-Apply ethical principles and legal frameworks on the utilisation of eHealth technologies-* *-Comprehend and apply change management by engaging stakeholders and assessing transition proces.* *-Detect needs and opportunities for innovation in healthcare to promote behaviors aimed at innovating health organizations* *-Understand the importance and application of artificial intelligence in healthcare.*
METHODS	*Presentations* *Lectures* *Videos*
ASSESSMENT METHODS	*The sections are followed by self-assessment questions with feedback on responses.* *Final quiz covering all of the sections*
CREDITS	*Time: 25h*

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Submodule: Communication tools and strategies	
CONTENTS	*Digital communication principles and strategies.* *Communication styles based on audience.* *Social media: overview as communication tool, risks and benefits.*
COMPETENCIES	*Employ diverse digital communication tools and strategies adapted to the specific audience to facilitate effective online interaction and engagement.*
LEARNING OUTCOMES	*The participant will be able to:* *- Comprehend and promote an adequate and effective communication using digital tools* *- Identify and assess different digital communication strategies* *- Detect and evaluate communication barriers and promote solutions.*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS - TIME	*3 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*4h*

Submodule: Data sharing and privacy, cybersecurity	
CONTENTS	*Protect devices and data (antivirus, secure password practices, two-step verification protocols)* *Sharing vulnerable data: risks, limitations and strategies*
COMPETENCIES	*Understand and implement steps to protect data and devices implementing safe data-sharing practices and managing risks associated with digital health technologies to prevent cyber attacks.*
LEARNING OUTCOMES	*The participant will be able to:* *-Be familiar with the primary forms of cyberattack risks* *-Identify strategies to avoid cyber attacks* *-Assess and use strategies for safely sharing data and vulnerable information*
METHODS	*Presentations* *Lectures, case study* *Videos*

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MATERIALS	*2 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*4h*

Submodule: Ethical, deontological and legal considerations	
CONTENTS	*Ethics and deontology on eHealth and digital health tools* *Legal framework on the utilisation of eHealth technologies*
COMPETENCIES	*Apply ethical principles and legal frameworks through established protocols and ethical clinical guidelines to maintain integrity in healthcare practices and data management.*
LEARNING OUTCOMES	*The participant will be able to:* *-Be familiar with the ethical and deontological aspects involved in digital health* *-Identify legal aspects for using digital tools in healthcare*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*2 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*4h*

Submodule: Change management in healthcare	
CONTENTS	*Change management in healthcare: definitions, principles and implications.* *Strategies to adapt and support change in health organisations and risks of a wrong management.* *Role of people in a change of healthcare.*
COMPETENCIES	*Understand and implement fundamental principles of change management in healthcare by engaging stakeholders and evaluating transition processes for organizational success.*

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LEARNING OUTCOMES	*The participant will be able to:* *-Enhance understanding of change management principles.* *-Recognise the importance of engaging people in a change process and explore methods to achieve it* *-Assess transition processes and strategies to support it*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*3 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*4h*

Submodule: Innovation in eHealth	
CONTENTS	*New technologies in healthcare* *The need for innovation in oncology: benefits and applications in practice*
COMPETENCIES	*Detect needs and opportunities for innovation in healthcare to actively adopt and promote behaviors aimed at innovating health organizations for enhanced patient care and organizational effectiveness.*
LEARNING OUTCOMES	*The participant will be able to:* *-Detect needs and opportunities for innovation in healthcare and identify priority applications for a particular setting.* *-Adopt and promote behaviours aimed to innovate health organisations*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*3 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*4h*

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Submodule: The role of Artificial Intelligence in healthcare	
CONTENTS	*Artificial Intelligence: what it is and how we use it.* *Myths and realities of AI in the current world.* *Future of AI in healthcare.*
COMPETENCIES	*Understand the importance and application of artificial intelligence in healthcare, identifying barriers and enablers for its use and potential to enhance healthcare assistance.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know present application of artificial intelligence in healthcare* *-Identify barriers and enablers for AI use and its potential* *-Recognise importance of AI for improving healthcare assistance.*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*3 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Videos – 1 hour*
CREDITS	*5h*

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NON CLINICAL PROFESSIONAL PATHWAY

MODULE 2

DIGITAL TRANSFORMATION

MODULE: DIGITAL TRANSFORMATION	
SUBMODULES	*Digital technology management for oncology* *Data collection and analysis for management* *Digital tools and interventions implementation and evaluation*
GENERAL OBJECTIVES	*The participant will be able to:* *- Explain the concept and the impact of digital technologies in oncology management and their implementation.* *- Be familiar with diverse data collection processes.*
METHODS	*Presentation/videos*
ASSESSMENT METHODS	*Self assessment/case study…*
CREDITS	*Time: 12h*

Submodule: Digital technology management for oncology	
CONTENTS	*Explore digital technology management in healthcare, particularly in oncology, understanding its conceptual framework and evaluating its impact on patient care quality and efficiency.*
COMPETENCIES	*Understanding terms and information related to digital technology tools in healthcare, specifically oncology, and recognize their importance, while developing the ability to analyze them critically.*
LEARNING OUTCOMES	*The participant will be able to:* *-Explain the concept and the impact of digital technologies in oncology management (e.g. for improved patient outcomes, for personalized treatment).* *-Identify various digital tools available for non-clilnical professionals in the field of oncology*

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METHODS	*Constructivist methodology to support active learning and reflection* *Learner-centered methods including activities with increased interactivity and immediate feedback whenever possible*
MATERIALS	*Presentation 15'* *Videos 5'* *Quiz Assessment 10'(multiple choice, true or false, matching)*
CREDITS	*4h*

Submodule: Data collection and analysis for management	
CONTENTS	*Healthcare data models: bases, foundations and comparisons between existing models, internal and external data sources* *Data: Instruments and techniques for preparing, analysing, storing and visualising them.*
COMPETENCIES	*Be familiar with analytical tools and techniques to interpret data from various sources, aiming to improve management and decision making processes.*
LEARNING OUTCOMES	*The participant will be able to:* *- Identify useful primary and secondary data sources* *- Be familiar with diverse data collection processes* *- Draw the appropriate evidence-based conclusions and communicate results*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*Presentations* *Lectures* *Videos*
CREDITS	*4h*

Submodule: Digital tools and interventions implementation and evaluation	
CONTENTS	*- Prerequisites for an effective adoption of digital tools and interventions for oncological healthcare transformation.*

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	- Empowering nonclinical professionals with expertise in implementing, evaluating, and strategically integrating digital tools and interventions in oncological healthcare management.
COMPETENCIES	*Employ and understand the process for digital tools and interventions implementation and the assessment of the outcomes and impact in oncology healthcare management.*
LEARNING OUTCOMES	*The participant will be able to:* *- know various digital tools and interventions used in healthcare systems with particular emphasis on those which are important for oncological care* *- explain bases of the implementation of digital tools and interventions, use them effectivelyanalysis of their impact and assess/measure the outcomes.* *- will be familiar with digital tools and interventions as well as aligns them with organizational goals, mitigate associated risks and contributes to resource sharing and efficient collaboration among nonclinical professionals and healthcare personnel.*
METHODS	*- Presentations of cutting-edge digital tools and interventions (plenaries and individual).* *- Group workshops, collaboration platforms, shared video presentations, case studies analyses where participants (nonclinical) liaise with medical specialists in decision-making process to simulate organizational processes related to patient care (seminars, discussions, own studies).*
MATERIALS	*- Presentations, tutorials, showcases on approx. 6 tools x 20 min. each.* *- Own studies, workshops, simulations on approx. 2 cases x 60 min. each.* *The number of tools/cases may vary according to the finally agreed materials.*
CREDITS	*4h*

MODULE 3

MODULE: DIGITAL TRANSFORMATION	
SUBMODULES	*Communication tools for healthcare teams* *Electronic medical records and Health information exchange*

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	Regulatory compliance *Secure data sharing and patient privacy in digital environment*
LEARNING OUTCOMES	*The participant will be able to:* *- Know the bases of effective and safe communication in a digital environment* *- Identify barriers and enablers of eHealth and its tools for healthcare* *- Understand the present framework for the regulatory and privacy compliance.*
METHODS	*Presentation/videos*
ASSESSMENT METHODS	*Self assessment and case study*
CREDITS	*Time: 12h*

Submodule: Communication tools for healthcare teams	
CONTENTS	*Principles, techniques and outcomes of effective interprofessional communication in cancer care* *Tools and technologies for cancer care communication*
COMPETENCIES	*Identify communication tools and technologies and exemplify and quantify their effects on interprofessional teams and patients.*
LEARNING OUTCOMES	*The participant will be able to:* *-Identify the communication tools for an effective communication* *-Establish innovative communication patterns among teams of health professionals* *-Effectively communicate with external team members, coming from diverse professional and cultural backgrounds*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*Presentations* *Lectures* *Videos*

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CREDITS	*3h*

Submodule: Electronic medical records and Health information exchange	
CONTENTS	*Platforms and databases for sharing patients information: EHR and HIE* *Information systems: interoperability and standard, overview* *Retrieving clinical information for reporting purposes*
COMPETENCIES	*Acknowledge healthcare models and systems at an international level, the need of their integration, as well as their use in different situations and the information resulting.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know and understand platforms to share health information in a clinical setting* *-Recognise the need of communication between systems and their interoperability* *-Review patient records for coherence and accuracy* *-Be familiar with the European Health Data Space*
METHODS	*Presentations* *Lectures* *Videos*
MATERIALS	*Presentations* *Lectures* *Videos*
CREDITS	*3h*

Submodule: Regulatory compliance	
CONTENTS	*Healthcare Regulations and Standards Overview* *Introduction to regulatory frameworks in digital healthcare (Key standards governing healthcare compliance,security and privacy standards;Regulatory bodies and their roles)* *Compliance Measures for Digital Healthcare Systems (Implementation of regulatory requirements, Auditing and monitoring for compliance Penalties and consequences for non-compliance)*

COMPETENCIES	*Interpret and apply healthcare regulations and standards in a digital environment.* *Implement compliance measures to ensure adherence to regulatory requirements.* *Evaluate and manage risks associated with non-compliance in healthcare systems*
LEARNING OUTCOMES	*The participant will be able to:* *-Interpret and explain the main regulatory frameworks governing digital healthcare.* *-Apply compliance measures to maintain adherence to regulatory requirements.* *-Assess the legal implications of non-compliance, specifically regarding patient data.*
METHODS	*Methodology promoting active learning and consideration* *Learner-centered methods with interactive activities and immediate feedback* *Case examinations and practical scenarios*
MATERIALS	*Video presentation (~ 10-15 minutes)* *PowerPoint presentation (~30-50 minutes)* *Applicable articles (~ 30-50 minutes)* *Case examinations (~30-50 minutes)*
CREDITS	*3h*

Submodule: Secure data sharing and patient privacy in digital environment	
CONTENTS	*Fundamentals of Patient Privacy and Data Security (including ways to safeguard patient privacy and risks associated with health data sharing)* *Encryption and Data Protection Technologies* *Secure Data Sharing Protocols and Practices*
COMPETENCIES	*-Identify and implement secure data sharing practices* *-Identify and implement ways to safeguard patient privacy* *-Assess and manage risks associated with health data sharing*
LEARNING OUTCOMES	*The participant will be able to:* *-identify secure data sharing practices in a digital healthcare environment* *-implement best practices for securing data in oncology (capacity building)*

	-explain the ethical and legal considerations surrounding patient information in a digital environment. *-identify the potential risks and threats to patient data in oncology* *-describe encryption techniques and their role in securing sensitive healthcare data.*
METHODS	*Constructivist methodology to support active learning and reflection* *Learner-centered methods including activities with increased interactivity and immediate feedback whenever possible*
MATERIALS	*Video presentation 10'* *Powerpoint presentation 30'* *Articles x2 30'* *Case study* *Self-assessment*
CREDITS	*3h*

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CLINICAL PROFESSIONAL PATHWAYS

GENERAL MEDICINE

MODULE 4

MODULE: DIGITAL TOOLS FOR ONCOLOGY PATIENTS REMOTE MANAGEMENT	
SUBMODULES	*eHealth and patient empowerment* *Prevention and cancer control through digital tools* *Use of technologies in rural areas and vulnerable patients: barriers and possibilities*
GENERAL OBJECTIVES	*The participant will be able to:* *- Ability to empower patients through education and guidance on eHealth and digital tools in oncology care.* *- Understand and apply digital tools to promote cancer prevention and control.* *-Identify and assess obstacles faced by vulnerable patients/caregivers in utilizing technologies in rural areas*
METHODS	*Mix of presentations, reading papers and case studies*
ASSESSMENT METHODS	*The sections are followed by self-assessment questions with feedback on responses.* *Final quiz covering all of the sections*
CREDITS	*Time: 8h*

Submodule: eHealth and patient empowerment	
CONTENTS	*eHealth, digital tools and its application in patient empowerment in oncology care: understand benefits and limitations.* *Information and education in digital health technologies: skills and knowledge.* *The patient in the centre: empowerment of patients to use eHealth and digital tools.*

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COMPETENCIES	*Ability to empower patients through education and guidance on eHealth and digital tools in oncology care, ensuring understanding of both benefits and limitations, to a more personalized healthcare experience.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know the importance of digital tools in cancer care to provide a personalised care;* *-Recognise the central role of the patients in the choice and use of digital tools or interventions;* *-Understand the importance and gain skills for supporting patients and caregivers for an efficient and favourable use of digital tools.*
METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers on effective patient empowerment* *- Presentations including a summary of legal procedures for patients in digital tools* *- Case studies on which digital tools to use for different patients/caregivers' needs* *Time: 2.5 hours*
CREDITS	*2,5hrs*

Submodule: Prevention and cancer control through digital tools	
CONTENTS	*Primary and secondary prevention and health promotion through digital tools and technologies.* *Tools/interventions available to increase health awareness and cancer prevention and control.*
COMPETENCIES	*Understand and apply digital tools to promote cancer prevention and control, assessing their relevance for various target groups and integrating them into patient care practices for enhanced health outcomes.*
LEARNING OUTCOMES	*The participant will be able to:* *-Identify and use digital tools for prevention and health promotion in cancer patients and general population;* *-Assess the adequate tools for targeting the correct group of people;* *- Understanding the applicability of these digital tools in patient care*

METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers* *- Presentations* *- Case studies* *Time: 3 hours*
CREDITS	*3h*

Submodule: Use of technologies in rural areas and vulnerable patients: barriers and possibilities	
CONTENTS	*How to maximise the use of technologies for and by vulnerable patients to improve their care.* *How to improve access to technologies in remote and rural areas.*
COMPETENCIES	*Identify and assess obstacles faced by vulnerable patients/caregivers in utilizing technologies, proposing solutions to enhance the use of digital tools for cancer care and treatment adherence in rural areas to avoid social exclusion.*
LEARNING OUTCOMES	*The participant will be able to:* *-Recognise and assess the obstacles that vulnerable patients/caregiver can face in the use of technologies.* *-Identify possible solutions to the use of digital tools in cancer care and treatment adherence in rural areas.*
METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers* *- Presentations* *- Case studies* *Time: 2.5 hours*
CREDITS	*2,5h*

ONCOLOGY SPECIALISTS

MODULE 5

MODULE: TECHNOLOGIES FOR CANCER DIAGNOSIS AND TREATMENT	
SUBMODULES	*Digital tools and technologies for cancer diagnosis* *Cancer treatment planning and follow up through digital instruments* *Telemedicine and virtual consultation*
GENERAL OBJECTIVES	*The participant will be able to:* *- Understand and use technologies and tools to provide support in the process of diagnosis to help oncologists in their diagnostic process.* *- Identify and utilize technology to support the treatment planning and follow-up in cancer care.* *- Comprehend and utilize telemedicine and virtual consultation in oncology practice.*
METHODS	*Mix of presentations, reading papers and case studies*
ASSESSMENT METHODS	*The sections are followed by self-assessment questions with feedback on responses.* *Final quiz covering all of the sections*
CREDITS	*Time: 10h*

Submodule: Digital tools and technologies for cancer diagnosis	
CONTENTS	*Diagnosis: current tools and technologies to support cancer diagnosis.* *Use and benefits of technologies in the process of cancer diagnosis*
COMPETENCIES	*Understand and use technologies and tools to provide support in the process of diagnosis, ensuring their effective integration into clinical practice to help and support oncologists in their diagnostic process.*
LEARNING OUTCOMES	*The participant will be able to:* *- Identify the different tools available to support the diagnostic process* *-Assess and use the most appropriate tool depending on different factors (i.e. stage of cancer, type of cancer...)* *-Integrate digital tools in cancer diagnosis.*

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METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers* *- Presentations* *- Case studies* *Time: 3.5 hours*
CREDITS	*3,5h*

Submodule: Cancer treatment planning and follow up through digital instruments	
CONTENTS	*Technologies to support treatment: include digital health tools in planning and delivery.* *Cancer treatment follow-up through digital tools: benefits, limitations and solutions.* *Tools and interventions for treatment and follow-up (applications, databases, digital imaging).*
COMPETENCIES	*Identify and utilize technology to hold up the treatment planning and follow-up in cancer care, selecting the adequate tool or intervention based on patients' needs, to support treatment choice and facilitate the follow-up.*
LEARNING OUTCOMES	*The participant will be able to:* *- Know different tools to support the treatment planning in cancer care.* *- Recognise the benefits of using technology to support cancer care in different stages and understand how outcomes from digital tools can be used in clinical practice to adapt a cancer patient's treatment.* *-Identify the adequate tool or intervention based on patients' needs.*
METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers* *- Presentations including a summary of legal procedures for patients in digital tools* *- Case studies* *Time: 3.5 hours*

CREDITS	

Submodule: Telemedicine and virtual consultation	
CONTENTS	*Telemedicine and video consultation: support for oncology care.* *Adapt the tool to the patient/caregiver and their needs.* *Promotion of telemedicine and virtual consultation to support cancer care.*
COMPETENCIES	*Understand the use of telemedicine and virtual consultation in oncology, selecting appropriate tools and identifying facilitators and barriers to provide remote healthcare access to individual patient's contexts.*
LEARNING OUTCOMES	*The participant will be able to:* *- Understand the use of telemedicine and virtual consultation in oncology* *- Assess and choose the tool based on patient/caregiver needs, to promote an efficient and favorable use.* *- Identify facilitators and obstacles to provide effective telemedicine and virtual consultation given each specific patient's context and background*
METHODS	*Mix of presentations, reading papers and case studies*
MATERIALS	*- Research papers* *- Presentations including a summary of legal procedures for patients in digital tools* *- Case studies*
CREDITS	*Time: 3 hours*

MODULE 6

MODULE: DIGITAL TOOLS FOR SHARED MEDICAL DECISION IN ONCOLOGY	
SUBMODULES	*Digital Shared Medical Decision: tools and support platform* *Patient-centered care in digital settings*

	Support and promote patients' empowerment and decision-making process in health
GENERAL OBJECTIVES	*The participant will be able to:* *-Introduce concepts of decision support and how it fits with shared decision-making in digital settings.* *-Explore patients' decision needs and tailor decision support in oncology by using Ottawa Decision Support Framework* *-Search digital tools to support high quality patient decision making in oncology.* *-Discuss how to implement and evaluate decision support interventions using digital tools.*
METHODS	*Presentation* *Lectures* *Aid libraries searching* *Videos*
ASSESSMENT METHODS	*The sections are followed by self-assessment questions with feedback on responses.* *Final quiz covering all of the sections*
CREDITS	*Time: 10h*

Submodule: DIGITAL TOOLS FOR SHARED MEDICAL DECISION IN ONCOLOGY	
CONTENTS	*-Decision Support and Shared Decision Making in oncology: frameworks, evidence and impact.* *-Conceptual Foundation: The Ottawa Decision Support Framework (ODSF)* *-Digital decision Tools and Decision Coaching in digital settings in oncology* *- Implmementation and evaluation of SDM digital tools and intervention in oncology practice/organization.*
COMPETENCIES	*Capability to implement and evaluate decision support interventions using digital tools for enhancing oncology patients' shared decision making.*
LEARNING OUTCOMES	*The participant will be able to:* *-Introduce concepts of decision support and how it fits with shared decision-making in digital settings.* *-Explore patients' decision needs and tailor decision support in*

	oncology using Ottawa Decision Support Framework. *-Search digital tools to support high quality patient decision making in oncology.* *-Discuss how to implement and evaluate decision support interventions using digital tools.*
METHODS	*Presentation* *Lectures, critical appraisal of the literature* *Decision aid libraries search* *Videos*
MATERIALS	*4 lessons, each one: Presentation (15'), lectures (45'), test of knowledge with 12 questions (10')* *Search of decision aid libraries – 2 hour* *Videos – 1 hour*
CREDITS	*10h*

MODULE 7

MODULE: LEARNING, RESEARCHING AND DEVELOPING IN ONCOLOGY	
SUBMODULES	*Cancer management based on data* *Research and development in oncology using digital technologies* *Ongoing learning, professional development and networking in oncology*
GENERAL OBJECTIVES	*The participant will be able to:* *-Analyze cancer-related digital data using computational methods to optimize cancer management.* *-Utilize networking opportunities to exchange insights within the oncology community, fostering ongoing learning and professional development.* *-Design and execute IT-related R&D projects in oncology.*
METHODS	*Presentation* *Lectures* *Videos*
ASSESSMENT METHODS	*The sections are followed by self-assessment questions with feedback on responses.* *Final quiz covering all of the sections.*
CREDITS	*8h*

Submodule: Cancer management based on data	
CONTENTS	*-Digital data sources in cancer management.* *-Digital methods for cancer data analysis.* *-Applications of digital data in cancer management*
COMPETENCIES	*- Analyze cancer-related digital data using computational methods to optimize cancer management.*
LEARNING OUTCOMES	*The participant will be able to:* *-Utilize various digital data sources relevant to cancer management, including electronic health records, etc.* *-Apply digital methods to analyze cancer data effectively.* *-Interpret and extract meaningful insights from digital data to support clinical practice in oncology.*
METHODS	*- Presentations of recent IT systems / technologies, databases (plenaries and individual).* *- Thematic collaboration platforms (applying blogging/vlogging platforms, online journals and similar tools with options for users/readers comments).* *- Shared video presentations based on self-studies and research papers analyses, where participants test recent IT systems / technologies in order to present developed cases, comment results, infer from the data, engage in observation, advice, decision-making, simulations for the treatment and patient care (seminars, discussions, own studies).*
MATERIALS	*- Presentations, tutorials, showcases.* *- Own studies.* *The number of tools/cases may vary according to the finally agreed materials.*
CREDITS	*2,5h*

Submodule: Research and development in oncology using digital technologies	
CONTENTS	*-Exploring the process of designing and conducting R&D projects tailored to oncological challenges using digital tools and methodologies.*

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	-Identifying and adapting the specific requirements for digital research activities in oncology. *-Techniques for real-time assessment of the potential impact and feasibility of implementing digital R&D results in oncological settings.* *-Developing interdisciplinary skills and careers through Digital R&D collaboration.*
COMPETENCIES	*Engage in IT-related research for oncology, tailoring projects to patient needs, evaluating real-time implementation for improved treatment outcomes and fostering career development through collaboration.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know how to engage in R&D activities (particularly IT-related ones) i.e. how to design, conduct R&D projects as well as evaluate and deploy R&D results in operational environment,* *-Tailor research activities to meet the unique needs of oncological patients,* *-Assess the potential of R&D results implementation for the benefit of oncological patients, ensuring optimal treatment outcomes as well as patients' data privacy,* *-Know how to develop their skills and careers thanks to the interdisciplinary R&D collaboration.*
METHODS	*- Presentations of recent IT systems / technologies, databases (plenaries and individual).*
MATERIALS	*- Presentations, tutorials, showcases.* *- Own studies.* *The number of tools/cases may vary according to the finally agreed materials.*
CREDITS	*3hrs*

Submodule: Ongoing learning, professional development and networking in oncology	
CONTENTS	*Utilise digital networking opportunities effectively to exchange experiences and insights within the oncology community, promoting ongoing learning for improved patient care and professional development.*

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COMPETENCIES	*- Recognize the significance of ongoing learning in oncology for improving patient care and professional development.* *- Demonstrate the ability to leverage networking opportunities to exchange experiences and insights, fostering collaborative learning within the oncology community.*
LEARNING OUTCOMES	*The participant will be able to:* *- know the resources, tools, and techniques to retrieve and apply information, particularly from online resources,* *- have proficiency in critical appraisal and application of evidence-based practices from online resources,* *- can integrate technologies and resources to offer a meaningful use for patient-centric care,* *- know how to liaise with relevant counterparts, expand network to co-create and offer valuable oncology healthcare services.*
METHODS	*- Presentations of recent IT systems / technologies, databases (plenaries and individual).* *- Videos, lectures*
MATERIALS	*- Presentations, tutorials, showcases.* *- Own studies, workshops, simulations.*
CREDITS	*2,5h*

ONCOLOGY NURSES

MODULE 8

MODULE: DIGITAL TOOLS FOR PATIENTS/CAREGIVERS EMPOWERMENT	
SUBMODULES	*Digital tools in oncology care* *Strategies for providing comprehensive patient education using digital resources* *Techniques for fostering effective nurse-patient/caregiver communication using digital platforms*
GENERAL OBJECTIVES	*The participant will be able to:* *-Develop a comprehensive understanding of digital tools utilized in cancer care, their applications, and their impact on patient outcomes.* *-Acquire skills to effectively utilize digital resources for providing comprehensive patient education, tailored to diverse needs and preferences.* *-Master techniques for fostering effective nurse-patient/caregiver communication using digital platforms, ensuring personalized care and promoting active participation and understanding.*
METHODS	*Pre-Recorded Lectures & Presentations.* *Text-based Materials.* *Videos* *Quizzes & Assessments* *Case Studies*
ASSESSMENT METHODS	*Assessment tests to asses factual knowledge and understanding of the key concepts and identify misconceptions by:* *Self-Assessment Tools to have insights into personal learning progression*
CREDITS	*Time: 8h*

Submodule: Digital tools in oncology care	
CONTENTS	*Introduction to digital tools: overview and importance.* *Integration of digital technologies in cancer care* *Impact of digital tools on patient outcomes and caregiver support.*

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COMPETENCIES	*Evaluate and effectively employ digital tools in oncology care to optimise patient outcomes and support caregivers, demonstrating a comprehensive understanding of their role and impact, as well as critically analyse facilitators and barriers to the integration of digital technologies in daily oncology nursing practice and propose evidence-based strategies to enhance their effective utilisation, thus promoting continuous improvement in patient care.*
LEARNING OUTCOMES	*The participant will be able to:* *-Recognize the role of digital tools in oncology care and their impact on patient outcomes and caregiver support* *-Analyze facilitators and barriers to the integration of digital technologies in daily oncology nursing practice, and propose strategies to enhance their effective utilization*
METHODS	*Pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *As an individual assignment, the participants can provide input in a reflection journal to foster their continuous learning and improvement.*
MATERIALS	1. *Completing pre-submodule test – 15”* 2. *Reading Text-based Materials – 45”* 3. *Viewing the pre-recorded lectures, presentations and videos – 45”* 4. *Personal assignment in reflection Journal – 60”* 5. *Post-submodule test – 15 “* 6. *Submodule Feedback survey – 5”*
CREDITS	*2,5h*

Submodule: Strategies for providing comprehensive patient education using digital resources	
CONTENTS	*Introduction to digital resources for patient and caregiver education: websites, mobile apps, videos, podcasts and social media.* *Selection criteria for digital technologies and resources for patient education.* *Designing digital educational content: techniques, best practices, accessibility and engagement* *Evaluation of digital patient and caregivers education programs: strategies, feedback, delivery methods*

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COMPETENCIES	*Effectively select and implement digital tools and platforms for patient education, creating tailored content and engaging patients and caregivers to enhance their understanding and involvement in healthcare.*
LEARNING OUTCOMES	*The participant will be able to:* *-Understand the variety of digital tools and platforms available for patient and caregiver education* *-Apply selection criteria to choose appropriate digital technologies and resources for patient education, considering diverse needs and preferences.* *-Evaluate the effectiveness of digital patient and caregiver education programs and utilize patient/caregiver feedback for continuous improvement.*
METHODS	*Pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *As an individual assignment, the participants can provide input in a reflection journal to foster their continuous learning and improvement.*
MATERIALS	*Completing pre-submodule test – 15”* *Reading Text-based Materials – 45”* *Viewing the pre-recorded lectures, presentations and videos – 45”* *Personal assignment in reflection Journal – 60”* *Post-submodule test – 15 “* *Submodule Feedback survey – 5”*
CREDITS	*2,5h*

Submodule: Techniques for fostering effective nurse-patient/caregiver communication using digital platforms	
CONTENTS	*Personalized communication techniques: strategies, active participation* *Communication modalities and strategies* *Setting expectations and guidelines* *Documentation and accountability* *Evaluation of communication effectiveness*
COMPETENCIES	*Effectively engage patients and caregivers through personalized communication on digital platforms, establish clear guidelines for urgent communication, and meticulously document interactions in*

	EHRs or communication logs, ensuring continuity of care, accountability, and privacy.
LEARNING OUTCOMES	*The participant will be able to:* *-Identify personalized communication techniques for engaging patients and caregivers on digital platforms, facilitating active participation and understanding.* *-Recognize the importance of establishing clear expectations and guidelines for urgent communication using digital technologies to ensure timely response and accountability in nurse-patient/caregiver interactions.* *-Understand importance of documenting all communication exchanges with patients and caregivers in electronic health records (EHRs) or communication logs, ensuring continuity of care, accountability, and privacy in accordance with ethical and legal standards.*
METHODS	*Pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *Pre- and post-submodule questionnaires, and submodule feedback assessments using assessment management at the platform.* *As an individual assignment, the participants can provide input in a reflection journal to foster their continuous learning and improvement.*
MATERIALS	1. *Completing pre-submodule test – 15”* 2. *Reading Text-based Materials – 45”* 3. *Viewing the pre-recorded lectures, presentations and videos – 45”* 4. *Personal assignment in reflection Journal – 60”* 5. *Post-submodule test – 15 “* 6. *Submodule Feedback survey – 5”* 7. *Overall module post-test – 30 “*
CREDITS	*3h*

MODULE 9

MODULE: DIGITAL TOOLS FOR REMOTE FOLLOW-UP	
SUBMODULES	*Introduction to digital tools for remote follow-up in oncology nursing* *Understanding eHealth and remote monitoring* *Using digital tools for remote patients check-ins*

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GENERAL OBJECTIVES	*The participant will be able to:* *-Develop a comprehensive understanding of digital tools utilized in remote follow-up care in cancer nursing, including their applications and significance in enhancing patient outcomes.* *-Gain insights into eHealth and remote monitoring systems, understanding their principles, components, and role in cancer care delivery.* *-Acquire proficiency in utilizing digital tools for remote patient check-ins, including conducting comprehensive health assessments, applying effective communication strategies, and ensuring privacy and security* *-Apply knowledge gained from introduction to digital tools, understanding eHealth, and remote patient check-ins to optimize remote follow-up care delivery in cancer nursing practice.*
METHODS	*Asynchronous Learning:* • *Pre-Recorded Lectures & Presentations.* • *Text-based Materials.* • *Videos* *Interactive Learning Activities:* • *Quizzes & Assessments* • *Case Studies* *Individual Assignments* *Learning reflections*
ASSESSMENT METHODS	1. *Assessment tests to asses factual knowledge and understanding of the key concepts and identify misconceptions by:* • *Multiple Choice Questions* • *True/False Statements* 2. *Self-Assessment Tools to have insights into personal learning progression by:* • *Pre-submodule test* • *Reflection Journal* • *Post-submodule test* • *Post – module test* 3. *Module/course Feedback:* • *Feedback Surveys: Collect personalized feedback from learners through surveys to evaluate their satisfaction with the course content, structure, and delivery, and address areas for improvement.*
CREDITS	*Time: 8h*

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Submodule: Introduction to digital tools for remote follow-up in oncology nursing	
CONTENTS	*-Use of known tools in* *-Advantages and limitations of digital tools for remote patient monitoring.* *-Strategies for effective remote communication*
COMPETENCIES	*Effectively employ digital technologies and tools for remote follow-up care in cancer nursing, leading to improved patient outcomes and optimized delivery of cancer care follow-up services across diverse healthcare settings.*
LEARNING OUTCOMES	*The participant will be able to:* *-Demonstrate an understanding of the various digital tools utilized in remote follow-up care in cancer nursing, including their functionalities and Applications.* *-Identify the advantages and limitations of digital tools for remote patient monitoring in follow-up care, and apply strategies to effectively communicate with cancer patients and their families remotely.*
METHODS	*The teaching and learning in this submodule can be effectively administered online through e-learning that facilitates remote education. Providing pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *The learning progress and evaluation of this submodule can be monitored by administering pre- and post-submodule questionnaires, and submodule feedback assessments using assessment management at the platform.*
MATERIALS	1. *Completing pre-submodule test – 15”* 2. *Reading Text-based Materials – 45”* 3. *Viewing the pre-recorded lectures, presentations and videos – 45”* 4. *Personal assignment in reflection Journal – 60”* 5. *Post-submodule test – 15 “* 6. *Submodule Feedback survey – 5”*
CREDITS	*3h*

Submodule: Understanding eHealth and remote monitoring	
CONTENTS	*-Introduction to eHealth in cancer care* *-Principles and components of eHealth and remote monitoring systems.* *-Technologies and platforms used in remote monitoring* *-Benefits and challenges of remote follow-up care* *-Data management, privacy and security considerations*
COMPETENCIES	*Demonstrate a comprehensive understanding of eHealth technologies, remote monitoring systems, and their applications in follow-up care, while acquiring the knowledge and skills necessary to navigate the complexities of eHealth implementation and leverage remote monitoring solutions effectively to improve patient follow-up care delivery.*
LEARNING OUTCOMES	*The participant will be able to:* *-Gain an understanding of eHealth's significance in cancer care delivery, including its principles, components, and the role of wearable devices and sensors in remote monitoring.* *-Evaluate the benefits, challenges, and ethical considerations associated with remote follow-up care in cancer management, while grasping data management principles, privacy, and security considerations in eHealth applications.*
METHODS	*The teaching and learning in this submodule can be effectively administered online through e-learning that facilitates remote education. Providing pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *The learning progress and evaluation of this submodule can be monitored by administering pre- and post-submodule questionnaires, and submodule feedback assessments using assessment management at the platform.*
MATERIALS	1. *Completing pre-submodule test – 15”* 2. *Reading Text-based Materials – 45”* 3. *Viewing the pre-recorded lectures, presentations and videos – 45”* 4. *Personal assignment in reflection Journal – 60”* 5. *Post-submodule test – 15 “* 6. *Submodule Feedback survey – 5”*
CREDITS	*2,5h*

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Submodule: Using digital tools for remote patients check-ins	
CONTENTS	*-Importance of Remote Patient Check-ins in cancer nursing follow-up care.* *-Digital tools and platforms for remote check-ins* *-Remote patient interactions* *-Strategies for effective communication and support during remote check-ins*
COMPETENCIES	*Effectively utilize digital tools for conducting remote patient check-ins, demonstrating expertise in remote patient interactions, applying effective communication strategies, and providing supportive care to optimize patient follow-up in cancer nursing.*
LEARNING OUTCOMES	*The participant will be able to:* *-Recognize the importance of remote patient check-ins in cancer nursing follow-up care and identify the digital tools and platforms available for conducting them.* *-Understand how to conduct remote patient interactions using digital tools and platforms, including the application of effective communication strategies and support provision during check-ins.*
METHODS	*The teaching and learning in this submodule can be effectively administered online through e-learning that facilitates remote education. Providing pre-recorded video lectures, presentations, literature, and instructional materials that the participants can access at their own pace and convenience.* *The learning progress and evaluation of this submodule can be monitored by administering pre- and post-submodule questionnaires, and submodule feedback assessments using assessment management at the platform.*
MATERIALS	1. *Completing pre-submodule test – 15”* 2. *Reading Text-based Materials – 45”* 3. *Viewing the pre-recorded lectures, presentations and videos – 45”* 4. *Personal assignment in reflection Journal – 60”* 5. *Post-submodule test – 15 “* 6. *Submodule Feedback survey – 5”* 7. *Overall module post-test – 30 “*
CREDITS	*2,5h*

MODULE: DIGITAL INTERVENTIONS IMPLEMENTATION	
SUBMODULES	*Implementing digital interventions in daily practice* *Challenges of digital intervention in oncology care* *Assessment and evaluation of digital interventions based on data*
GENERAL OBJECTIVES	*The participant will be able to:* *-Understand the importance of properly implementing digital interventions in cancer care, emphasizing their impact on enhancing accessibility and quality of care provision.* *-Recognize and critically assess the utilization of digital tools in daily oncological practice, discerning their advantages as well as their limitations when applied as interventions.* *-Identify healthcare transformations resulting from the integration of digital technologies in cancer care, with a specific focus on enhancing patient experience and optimizing clinical outcomes through targeted digital interventions.* *-Gain insight into the intricacies of cancer care delivery in remote settings and effective strategies to overcome challenges and leverage opportunities in the context of digital interventions.*
METHODS	*Presentation/videos/problem solving activities/articles*
ASSESSMENT METHODS	*Assessment methods: self assessment/case study…*
CREDITS	*Time: 8h*

Submodule: Implementing digital interventions in daily practice	
CONTENTS	*Digital tools or interventions: definitions and differences;* *Implementing a technology in daily practice: changes in care and job organisation(requirements, facilitators, barriers, strategies)*
COMPETENCIES	*Understand the implementation process of a tool/intervention, how it can affect in short/medium/long term the care given, identify possible barriers or limitations as well as their possible solutions.*

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LEARNING OUTCOMES	*The participant will be able to:* *-Understand the importance of an adequate implementation of digital technologies;* *-Recognise and assess the use of digital tools in daily practice;* *-Identify change in care due to the use of digital tools and interventions in cancer care.*
METHODS	*Power point presentation with virtual presentation* *create an interaction so that the participant can himself/herself design a project of implementation*
MATERIALS	*Power point presentation with virtual presentation* *create an interaction so that the participant can himself/herself design a project of implementation*
CREDITS	*3h*

Submodule: Challenges of digital intervention in oncology care	
CONTENTS	*Complexity of cancer care and use of digital tools.* *Barriers and limitations while caring for cancer patients or caregivers.*
COMPETENCIES	*Understanding the reality and complication of oncology care can (multimorbidity, complications, quality of life reduction, emotional and psychological complications, ie) and the barrier these can create in the use of digital interventions or tools.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know the complexity of cancer care in a remote setting;* *-Identify the correct tools and interventions for oncology patients and caregivers;* *-Detect limitations and barriers for digital technologies in cancer care.*
METHODS	*Presentation, case study*
MATERIALS	*powerpoint presentations with audio recording with virtual presentation; case studies* *evaluation will be done through multiple choice questions on case studies questions*
CREDITS	*2,5h*

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Submodule: Assessment and evaluation of digital interventions based on data	
CONTENTS	*Digital intervention and digital tools evaluation.* *How to know if your intervention or tool is successful: indicators, scales and data.*
COMPETENCIES	*Assess and evaluate digital intervention based on evidence collected from users, assess effectiveness based on indicators and data. Identify, evaluate technological solutions that provide the greatest value and are the most appropriate for cancer care in all its aspects.*
LEARNING OUTCOMES	*The participant will be able to:* *-Know the different tools to assess digital interventions correctly;* *-Identify indicators and scales to be used in each situation;* *-Recognise the value of adequate assessment and evaluation of digital interventions.*
METHODS	*powerpoint presentation with virtual presentation* *articles* *case studies* *databases analysis*
MATERIALS	*evaluation: setting a series of variables to evaluate a digital intervention* *multiple choice questions on a data assessment of a digital intervention*
CREDITS	*2,5h*

MODULE 11

MODULE: PROBLEM-SOLVING DIGITAL SKILLS FOR ONCOLOGY NURSES	
SUBMODULES	*Developing critical thinking skills for data analysis in the digital care landscape* *Techniques for identifying and resolving issues with digital healthcare tools* *Ensuring continuous functionality of essential digital resources*

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GENERAL OBJECTIVES	*The participant will be able to:* *-Develop a comprehensive understanding of the role and application of digital tools in oncology nursing practice, recognizing their importance in enhancing patient care quality and clinical process efficiency.* *-Acquire practical skills to select, evaluate, and effectively use specific digital tools within the oncology care context, applying the nursing process systematically and adapting to individual patient needs.* *-Foster a proactive and problem-solving attitude towards identifying and addressing technical issues and challenges associated with digital tools in clinical practice, prioritizing patient safety and data integrity.* *-Strengthen critical thinking skills and data analysis abilities among oncology nursing professionals, facilitating informed decision-making and continuous improvement of patient care through the effective utilization of digital tools.* *-Promote awareness and understanding of security and fraud risks associated with the use of digital tools in oncology care, and develop strategies to mitigate these risks and safeguard patient data confidentiality and privacy.*
METHODS	*Presentation/videos*
ASSESSMENT METHODS	*Self assessment/case study…*
CREDITS	*Time: 8h*

Submodule: Developing critical thinking skills for data analysis in the digital care landscape	
CONTENTS	*Critical thinking skills: Why are they important for oncology nurses?* *Applying critical thinking in data analysis in digital care*
COMPETENCIES	*Apply critical thinking skills to select and utilize data-driven digital tools, thereby optimizing patient care in oncology nursing practice*
LEARNING OUTCOMES	*The participant will be able to:* *-recognise the importance of critical thinking skills for data analysis in oncology*

	-compare different digital processes/tools (based on data) to select the most appropriate one depending on oncology patients' problems
METHODS	*Constructivist methodology to support active learning and reflection* *Learner-centered methods including activities with increased interactivity and immediate feedback whenever possible*
MATERIALS	*Video 5'* *Powerpoint presentation 40'* *Articles x2 30'* *Self-assessment* *(Materials used for teaching the course and minimal amount of time needed by the learner to read/watch the material)*
CREDITS	*4h*

Submodule: Techniques for identifying and resolving issues with digital healthcare tools	
CONTENTS	*-Usability of digital tools in oncology practise (such as Electronic health records, mobile applications, wearable devices).* *-Issues of digital tools in oncology practice.* *-Recommendations for possible issues are provided for each digital tool of this submodule.* *-Relevant article and videos for the participants.* *-Hands on use of tools like eCAN JA mobile app and others*
COMPETENCIES	*Identify, diagnose, and effectively resolve issues related to use of digital healthcare tools in oncology nursing practice, optimizing the usability of such tools to enhance patient care and facilitate interdisciplinary collaboration.*
LEARNING OUTCOMES	*The participant will be able to:* *-Demonstrate an understanding of the functions of digital healthcare tools and their applications in nursing clinical practice.* *-Develop a proactive attitude in providing effective support to patients experiencing challenges with digital healthcare tools.* *-Identify and diagnose problems associated with digital healthcare tools.*
METHODS	*Constructivist methodology to support active learning and reflection* *Learner-centered methods including activities with increased interactivity and immediate feedback whenever possible*

MATERIALS	*Video presentation 10'* *Powerpoint presentation 30'* *Article 30' (one or two)* *(Materials used for teaching the course and minimal amount of time needed by the learner to read/watch the material)*
CREDITS	*4h*

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TRAIN THE TRAINERS CURRICULUM

MODULE: TEACHING AND LEARNING IN AN ONLINE SETTING	
SUBMODULES	*Communication tools and strategies for eLearning* *Promote learners participation* *Tools for remote teaching*
GENERAL OBJECTIVES	*-Know tools and strategies to support the learners in a digital setting* *-Identify tools and strategies to promote remote learning*
METHODS	*Presentations, video.*
ASSESSMENT METHODS	*Quiz*
CREDITS	*Time: time the learner will spend to complete the module/course, corresponding to credits/microcredential: will be determined based on the minimal hours needed by the learner to read/watch the material*

Submodule: Communication tools and strategies for eLearning	
CONTENTS	*Teaching in a digital setting: communication.* *Tools and strategies to promote communication with eLearners.* *Communication barriers and enablers in a digital setting.*
COMPETENCIES	*Be able to identify the importance of learner-teacher communication, identify the limitations of a remote course and find solutions to promote it.*
LEARNING OUTCOMES	*-Know the tools to support the communication between learner and trainer* *-Detect possible issues or difficulties and identify solutions.* *-Identify the tools to support learners and their learning process.*
METHODS	*Presentations* *Articles* *Self assessment, quiz*
MATERIALS - TIME	*Materials used for teaching the course and minimal amount of time needed by the learner to read/watch the material* *i.e.*

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CREDITS	*Based on time the learner will spend to complete the module/course*

Submodule: Promote learners participation	
CONTENTS	*Participation in teaching/learning remotely* *Strategies to improve participation and involvement in learners.*
COMPETENCIES	*Know the relevance of participation in a digital environment and asynchronous teaching landscape. Identify different strategies to improve the participation with different learners and "needs".*
LEARNING OUTCOMES	*-Identify strategies to support a participating environment digitally;* *-Know different learning styles and support them;* *-Assess possible barriers and limitations to participation and find solutions.*
METHODS	*Presentations* *Articles* *Self assessment, quiz*
MATERIALS	*Presentations* *Articles* *Self assessment, quiz*
CREDITS	*Time: time the learner will spend to complete the module/course, corresponding to credits/microcredential*

Submodule: Tools for remote teaching	
CONTENTS	*Tools for remote teaching: apps, sharing platforms.* *Resources of different tools*
COMPETENCIES	*Know and use different tools in different situations, to provide the best teaching through digital tools.*
LEARNING OUTCOMES	*-Know different tools and solution to teach remotely;* *-Assess and identify the best tool for different topics (toolkit)*
METHODS	*Presentations* *Articles* *Self assessment, quiz*

MATERIALS	*Presentations* *Articles* *Self assessment, quiz*
CREDITS	*Time: time the learner will spend to complete the module/course, corresponding to credits/microcredential*

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