

No	Information of Introduction to Nuclear Security	
1	Unit name:	Introduction to Nuclear Security
2	Code:	NE - 61015
3	Classification:	Major subject
4	Credit value:	3.5
5	Semester/ Year Offered:	1/6
6	Pre-requisite:	NA
7	Mode of delivery:	Lecture, Presentation, Case study
8	Assessment system and breakdown of marks:	Tutorial, Assignment and Class Work Activities
	Tutorial	40 %
	Assignment	60 %
9	Academic staff teaching unit:	Department of Nuclear Technology
10	<p>Course outcome of unit:</p> <p>After completion of this course, students will be able to</p> <ol style="list-style-type: none"> 1. Formulate security policy for radioactive sources and by regulatory bodies in developing regulatory requirements that are consistent with the Code of Conduct. 2. Categorize radioactive sources in developing their security programmes. 3. Establish the requirement for an adequate level of preparedness and response for a nuclear or radiological emergency. 	
11	<p>Synopsis of unit:</p> <p>The course includes guidance and recommended measures for prevention of, detection of, and response to malicious acts involving radioactive sources. The course recommends that security measures be applied radioactive sources in manufacture, use and short term or long term storage.</p> <p>The course apply for preparedness and response for nuclear or radiological emergency in relation to all those facilities and activities, as well as sources, with the potential for causing radiation exposure, environmental contamination or concern on the part of the public warranting protective action and other response actions.</p>	
12	<p>Topic:</p> <ol style="list-style-type: none"> 1. Responsibilities of the State and Operator 2. Security concepts 	

	<ol style="list-style-type: none">3. Goal of Emergency Preparedness and Response4. General Requirements5. Functional Requirements6. Requirement for infrastructure
13	<p>Main references:</p> <p>(1) Security of radioactive sources, IAEA Nuclear Security Series No. 11.</p> <p>(2) Preparedness and Response for Nuclear or Radiological Emergency, IAEA, General Safety Requirements, No. GSR Part 7</p>
14	<p>Additional references:</p> <p>Nuclear Security ppt, IAEA-ICTP Nuclear Energy Management School, Presented by Division of Nuclear Security</p>

No	Information of Project Management	
1	Unit name:	Project Management
2	Code:	NE 6061
3	Classification:	Major
4	Credit value:	3.5
5	Semester/ Year Offered:	1/2
6	Pre-requisite:	N/A
7	Mode of delivery:	Regular lectures, PPT presentation
8	Assessment system and breakdown of marks:	Assignment, class activity, presentation, project
	Class Activity and Presentation	20%
	Assignment/Project	60%
	Knowledge Test/ Tutorial	20%
9	Academic staff teaching unit:	Department of Nuclear Technology
10	<p>Course outcome of unit:</p> <p>After completion of this course, students will be able to</p> <ol style="list-style-type: none"> 1. Recall the terms applied in project management 2. Apply tools and techniques used in project management 3. Apply project management life cycle in student's project 4. Work effectively as team members 5. To identify and address seek their educational needs in their project (life-long learning) 	
11	<p>Synopsis of unit:</p> <p>The subject of the course covered fundamentals of project management, project management life cycle including project scope management, time management, quality management and human resource management.</p>	
12	<p>Topic:</p> <ol style="list-style-type: none"> 1. Project Management and its framework 2. Project Integration Management 3. Scope Management 4. Time management 5. Cost Management 6. Quality Management 7. Human resource management 	

	8. Stakeholder management 9. Risk management 10. Professional responsibility
14	Main references: Project Management Professional Certification Course Book, PM Book 5 th Edition, produced by Myanmar Certified training Centers Co.ltd, Yangon Myanmar.
15	Additional references: NA

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No.	Information for Social Science and the Humanities	
1	Unit name:	Social Science and the Humanities
2	Code:	NE 6062
3	Classification:	General Subject
4	Credit Value:	3
5	Semester/Year Offered:	1/6
6	Pre-requisite	NA
7	Mode of delivery:	Discussion, Group Work, Presentation, Role Play, Case Study
8	Assessment system and breakdown of marks:	Activity, Assignment, Tutorial, Written Exam
	Activity/ Performance	30 %
	Assignment	10%
	Tutorial	20%
	Written Exam	40%
9	Academic staff teaching unit:	Department of Nuclear Technology
10	<p>Course outcome of unit: After completion of this course, students will be able to</p> <ol style="list-style-type: none"> 1. Interpret the foundational subject areas within social science and the humanities, though with a greater emphasis on social science. 2. Demonstrate how each of the subject areas overlap and affect the lives of individuals in a society. 3. Discriminate greater understanding the rate and style of a country's development can affect its environment, which can, in turn affect both the economy and the overall health of the society and the people who make it up. 4. Design to encourage to think critically and to practice importance skills that are useful for social science students specifically. 5. Appraise the reflection on individual beliefs and values though discussion about the topics and issues covered. 	
11	<p>Synopsis of unit: Social Science and the Humanities is a basic introduction to the two areas of study. The first chapter provides an introduction to social science and humanities subjects, followed by chapters focused on philosophy and ethics, human impacts on the environment, economics, development and public health. Basic introductions to people, events and eras from history, and to political ideas and theories are woven through these chapters.</p>	
12	<p>Topic:</p> <ul style="list-style-type: none"> Chapter 1, Social Science and the Humanities Chapter 2, Philosophy and Ethics Chapter 3, The Environment Chapter 4, Economics Chapter 5, Development Chapter 6, Public Health 	
13	<p>Main References: Social Science and the Humanities, An Introductory Course for Myanmar Learners, Mote Oo Education, November 2018</p>	
14	<p>Additional References: https://www.moteoo.org/en/social-science</p>	

No.	Information of Introduction to Non-Destructive Testing	
1	Unit name:	Introduction to Non-Destructive Testing
2	Code:	NE 61063
3	Classification:	Major subject
4	Credit value:	3.5
5	Semester / Year Offered:	1/6
6	Pre-requisite:	None
7	Mode of delivery:	Lecture, Presentation, Discussion, Term Paper
8	Assessment system and breakdown of marks:	Presentation and Term Paper
	Presentation (Two Presentations)	40%
	Term Paper (Two Papers)	40 %
	Presentation and Seminar Attendance	20%
9	Academic staff teaching unit:	Department of Nuclear Technology
10	<p>Course outcome of unit:</p> <p>After completion of this course, students will be able to</p> <ol style="list-style-type: none"> 1. Classify the methods of NDT 2. Identify the methods of NDT 3. Understanding the Ultrasonic Testing(UT) 4. Understanding the Radiographic Testing(RT) 	
11	<p>Synopsis of unit:</p> <p>This course is devoted to Non-Destructive Evaluation. The course is intended to provide thorough knowledge in the principles of Ultrasonic Testing-UT and fundamentals of materials and processes such that the trainee would be able to identify suitability of UT for the material and inspection techniques. The course is intended to provide through grounding in the principle of Radiographic Testing-RT and fundamentals of material and process such that the trainee would be able to identify suitability of RT for the material and inspection technique and develop techniques and procedures that can be followed by a Level I operator</p>	
12	<p>Topic:</p> <ol style="list-style-type: none"> 1. Ultrasonic Testing 	

	<ol style="list-style-type: none">2. Radiographic Testing3. Magnetic Particle Testing4. Eddy Current Testing5. Penetrant Testing6. Visual Testing
13	Main reference: Non-Destructive Testing(NDT)- Guildance Document: An Introduction to NDT Common Methods