## Title: 8A. Military and National Security Implications of Nanotechnology

Goal: Students will know potential risks of nanotechnology in health and medicine.
Module Objectives: This module will provide the students with an overview of the implications of nanotechnology for military and national security. Topics that will be covered include: 1) Homeland Security; 2) New era of Weapons of Mass Destruction (WMD)?; 3) Context described a) Nanotechnology and art of war; b) Nanotechnology and national security 4) Framing ethical questions 5) Assessing options for action 6) Finding common ground.

## Prerequisites by Topic:

- None


## Required Text: N/A

Reading: Write-up of this module
References: [Refs. 14-17]

## Student Learning Outcomes:

- Students will appreciate issues of nanotechnology in know what are the issues of nanotechnology in military and national security.
- Students will understand role of nanotechnology in art of war, solider nanotechnologies, future force warrior program, and roles of different security and military agencies.
- Students will be able to frame ethical questions and assessing actions while using nanotechnology in military and national security


## Topics Covered: (Green highlighted topics are priority\#1, Yellow highlighted are if time permits)

## Lecture I

- Homeland Security;
- New era of Weapons of Mass Destruction (WMD)?;
- Context described
- Nanotechnology and art of war;

Nanotechnology and national security

## Lecture II

- Framing ethical questions
- Assessing options for action
- Finding common ground


## Relationship to ABET Program Outcomes

[Note: Please, refer ABET program outcomes list (a) through (I) in attached standard template.]
(f) An understanding of professional and ethical responsibility.
(j) A knowledge of contemporary issues.

