



Full Syllabus

Course Title

Introduction to Emergency and Disaster Management

Lecturer

Prof. Moran Bodas, Dr. Arielle Kaim, Gili Shenhar

Semester

Fall, Mondays at 13:15-15:45

Course requirements

- Successful completion of the online learning module "Basic Concepts in Emergency Management"
- Independent learning about disaster types and UN Agencies as part of AI workshops
- Mandatory participation in the lessons marked with an asterisk*
- Mandatory participation in the 20- year celebration of the department taking place on November 5, 2026
- Mandatory participation in the IPRED conference (15-18 November, 2026)
- Unexcused and/or pre-arranged absences from classes where attendance is mandatory will require the student to complete written work to meet the course requirements

Final grade components

Final exam – 100%

Course Schedule

Class no.	Subject and Requirements (assignments, reading materials, tasks, etc.)
1 (Oct 19)	Stages in emergency management (Prof. Moran Bodas)
2 (Oct 26)	Disaster Epidemiology and crowd sourcing of life Saving competencies during the first hours post a sudden onset disaster (Prof. Moran Bodas)
3 (Nov 2)	AI workshop: types of disasters (Dr. Arielle Kaim)
4 (Nov 9)	Top-Hazards Approach vs. All-Hazards Approach (Prof. Moran Bodas)
5 (Nov 16)	IPRED Conference*
6 (Nov 23)	Innovation and evidence-based practices in disaster management + MEAL workshop (Dr. Arielle Kaim)
7 (Nov 30)	Architecture of the Global Humanitarian Assistance System (UNDAC Cluster System, EMTs, WHO), Sendai Framework, and Community-Social Resilience (Dr. Arielle Kaim)
8 (Dec 7)	AI workshop: UN Agencies and their role in disasters* (Dr. Arielle Kaim)
9 (Dec 14)	Selected aspects of emergency logistics + Turkey Earthquake 2023 case study (Gili Shenhar)
10 (Dec 21)	Selected technological aspects in emergencies (Gili Shenhar)
11 (Dec 28)	Command and control in emergencies and disasters (Gili Shenhar)
12 (Jan 4)	Planning a family emergency plan and the Versailles Hall disaster case study (Gili Shenhar)
13 (Jan 11)	Simulation and Exam preparation* (Prof. Moran Bodas, Dr. Arielle Kaim, Gili Shenhar)

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Required course reading

- Quarantelli E.L. Catastrophes are Different from Disasters: Some Implications for Crisis Planning and Managing Drawn from Katrina. Jun 11, 2006
- Peleg, K., Bodas, M., Shenhar, G., & Adini, B. (2018). Wisdom of (Using) the Crowds: Enhancing Disasters Preparedness through Public Training in Light Search and Rescue. *International Journal of Disaster Risk Reduction* 31, 750-757.
- Callaghan, C. W. (2016). Disaster management, crowdsourced R&D and probabilistic innovation theory: Toward real time disaster response capability. *International journal of disaster risk reduction*, 17, 238-250.
- Kaim, A., Adini, B., & Bodas, M. (2025). Evaluating the operational effectiveness of Emergency Medical Team field hospitals: A novel tool for measuring surge capacity performance. *International Journal of Disaster Risk Reduction*, 105987.
- Oral, V., Çinar, Ö., & Erdem, Z. (2026). The First 72 Hours: Emergent Norms, Collective Efficacy and Coordination Dynamics. doi: 10.5772/intechopen.1014953

Optional course reading

- Alexander D, (2002). Principles of Emergency Planning and Management. Oxford University Press. CHAPTER 1 (Library ref.: 363.348 ALE)
- Haddow GD, Bullock JA, Coppola DP, (2008). Introduction to Emergency Management - Third edition. Butterworth-Heinemann. CHAPTER 3-6. Available on Moodle as well.
- Ciotto GR, (2014). Disaster Medicine. Philadelphia. Elsevier Mosby. CHAPTERS 9-17. (Library ref.: 362.18 DIS)
- Peleg, K., Michaelson, M., Shapira, S. C., & Aharonson-Daniel, L. (2003). Principles of emergency management in disasters. *Advances in renal replacement therapy*, 10(2), 117-121.
- Haddow GD, Bullock JA, and Coppola DP, (2008). Introduction to Emergency Management – Third edition. Butterworth-Heinemann. CHAPTER 8. (Available on Moodle)
- Imperiale, A. J., & Vanclay, F. (2019). Command-and-control, emergency powers, and the failure to observe United Nations disaster management principles following the 2009 L'Aquila earthquake. *International journal of disaster risk reduction*, 36, 101099.
- <https://www.undrr.org/implementing-sendai-framework/what-sendai-framework>
 - Mizutori, M. (2020). Reflections on the Sendai Framework for disaster risk reduction: Five years since its adoption. *International Journal of Disaster Risk Science*, 11(2), 147-151.
- https://cred.be/sites/default/files/2022_EMDAT_report.pdf
 - von Schreeb J, Riddez L, Samnegård H, Rosling H. Foreign field hospitals in the recent sudden-onset disasters in Iran, Haiti, Indonesia, and Pakistan. *Prehospital and disaster medicine*. 2008 Apr;23(2):144-51.
 - Kaim, A., Bodas, M., Bieler, D., Radomislensky, I., Matthes, G., Givon, A., ... & Lefering, R. (2023). Severe trauma in Germany and Israel: are we speaking the same language? A trauma registry comparison. *Frontiers in public health*, 11, 1136159.

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- Brattberg E, (2011), Mobilizing for International Disaster Relief: Comparing US and EU Approaches to the 2010 Haiti Earthquake. *Journal of Homeland Security and Emergency Management* 8(1). (Available on Moodle)
- Peleg, K., Bodas, M., Shenhar, G., & Adini, B. (2018). Wisdom of (Using) the Crowds: Enhancing Disasters Preparedness through Public Training in Light Search and Rescue. *International Journal of Disaster Risk Reduction* 31, 750-757.
- Bodas M, Peleg K, Shenhar G, Adini B. (2019). Light Search and Rescue Training of High School Students in Israel – Longitudinal Study of Effect on Resilience and Self-Efficacy. *International J. of Disaster Risk Reduction*, 36. 101089.
- Kaim, A., Siman-Tov, M., Jaffe, E., & Adini, B. (2021). Effect of a concise educational program on COVID-19 vaccination attitudes. *Frontiers in Public Health*, 9, 767447.
- Bodas, M., Kirsch, T. & Peleg, K. (2020). Top Hazards Approach – Rethinking the Appropriateness of the All-Hazards Approach in Disaster Management. *International journal of disaster risk reduction*, 101559.
- Peleg K⁺, Bodas M⁺, Hertelendy A, Kirsch TD. (2021). The COVID-19 Pandemic Challenge to the All-Hazards Approach for Disaster Planning. *International Journal of Disaster Risk Reduction*. 10.1016/j.ijdr.2021.102103.
- Penta, S., Kendra, J., Marlowe, V., & Gill, K. (2021). A disaster by any other name?: COVID-19 and support for an All-Hazards approach. *Risk, Hazards & Crisis in Public Policy*, 12(3), 240-265.

General Notes:

- The course is worth 3 academic credits and is held on Mondays during the Fall Semester, from 13:15 to 15:45, with a short break determined according to the lesson's content.
- Attendance is generally not mandatory (with the exception with the lessons marked with an *), but students are expected to participate and contribute to class discussions.
- You are required to partake in the 20-year event celebrating the department that will take place on November 5, 2026, from 17:30-21:00 at the ANU Museum.
- You are required to partake in the IPRED conference throughout the duration of the conference (15-18 November 2026) at the Hilton , Tel Aviv Hotel.
- The workshops include essential core content, which is part of the final exam. Students are responsible for reviewing materials from all workshop groups.
- Students will be notified in advance of any changes to the syllabus schedule.
- Students who are absent from the final simulation, for any reason, will be asked to submit a summary report of an emergency event analysis as an alternative. Failure to submit the report constitutes failure to meet the course requirements.