

## **Jawaharlal Nehru University**

### **Special Centre for National Security Studies**

#### **COURSE TITLE: RESEARCH METHODOLOGY FOR NATIONAL SECURITY OF INDIA**

Course Number:	SN-701
Course Teacher:	Dr. Naresh Verma
Contact Details:	Room No. 18, JNIAS Ext., Email: nkverma@mail.jnu.ac.in
Course Credit:	04
Duration:	One semester
Instruction Method:	Lectures, tutorials and seminars
Evaluation Method:	Sessional work and semester examination
Contact Hours:	One hour after the class & by appointment

#### **Course description**

The course introduces the theoretical, practical and ethical issues involved in carrying out research on national security. Beginning with an introduction to the field of national security studies, the course will help inculcate essential skills for conducting original, qualitative/quantitative research in the field of national security studies. It will also acquaint the students with the key concepts, techniques and statistical tools for undertaking research pertaining to national security.

#### **Learning objectives and approach**

By the end of this course, students should be able to:

- Appreciate and engage in theoretical and ethical debates on the conduct of research in the field of national security studies
- Understand different research methods and methodologies for carrying out research pertaining to national security
- Understand and apply tools, techniques and approaches to undertake research in national security topics
- Identify compelling research problems, and
- Develop appropriate research designs to investigate research queries.

#### **Course outline**

Theories and philosophical debates on national security

- ❖ Securitization theory and the Copenhagen school
- ❖ Philosophical debates: induction vs deduction; subjectivity vs objectivity

Methods of data collection in national security

- ❖ Observation, interviews, questionnaire, government or quasi-government publications, research publication, census, personal records, mass-media, and social media

Qualitative and quantitative research methods in national security

- ❖ Historical, ethnographic, case study, comparative, cross-sectional studies, longitudinal studies, mixed method etc

#### Introduction to basic statistics

- ❖ Descriptive statistics; measures of disparity and inequality; measures of association and explanation; theory of probability; theory of sampling; testing of hypothesis
- ❖ Basics of statistical tools and techniques to analyze data (Using Excel, SPSS/R Software)

#### Remote sensing and GIS techniques in national security

- ❖ Introduction to the basics of remote sensing, GIS, and GPS technology
- ❖ National map policy; geospatial data; creation of strategic maps using GIS software; improving national security using GPS tracking
- ❖ Applications of remote sensing and GIS techniques in cyber security and strategic, internal and external security, and data management

#### Plagiarism and research ethics

- ❖ Research ethics
- ❖ Plagiarism, academic dishonesty and implications

### **Required Reading**

#### **Theories and philosophical debates on National security**

- Van Evera, Stephen. 1997. *Guide to Methods for Students of Political Science*, Ithaca: Cornell University Press.
- Coppedge, Michael. (2002). "Theory Building and Hypothesis Testing: Large- vs. Small-N Research on Democratization." Paper presented at the Midwest Political Science Association, Chicago, Illinois, page no: 25-27.
- Buzan, Barry (1983), *People, States and Fear: The National Security Problem in International Relations*, Chapel Hill, NC: The University of North Carolina Press.
- Buzan, Barry, Ole Waever & Jaap De Wilde (1998), *Security: A New Framework for Analysis*, London: Lynne Rienner.
- Barry Buzan (2001), "Human Security in International Perspective", in Mely Anthony and Mohamed Jawhar Hassan, eds., *The Asia Pacific in the New Millennium: Political and Security Challenges*, Kuala Lumpur: Institute of Strategic and International Studies.
- Buzan, Barry & Lene Hansen (2009), "Widening and Deepening Security", in Barry Buzan, & Lene Hansen, *The Evolution of International Security Studies*, Cambridge: Cambridge University Press.
- Collins, A. (Ed.). (2016). *Contemporary security studies. Kingdom: Oxford university press*.
- McSweeney, B. (1996). Identity and security: Buzan and the Copenhagen school. *Review of international studies*, 22(1), 81-93.
- Buzan, B., Buzan, B. G., W'ver, O., Waever, O., & Buzan, O. W. B. (2003). *Regions and powers: the structure of international security* (No. 91). Cambridge University Press.

- Wilkinson, C. (2007). The Copenhagen School on tour in Kyrgyzstan: Is securitization theory useable outside Europe?. *Security Dialogue*, 38(1), 5-25.
- Hansen, L. (2000). The Little Mermaid's silent security dilemma and the absence of gender in the Copenhagen School. *Millennium*, 29(2), 285-306.
- Kumar, R. (2005). *Research Methodology A Step-by-Step Guide for Beginners*. London: Sage Publications. (Chapter 5).
- Blagden, D. (2016). Induction and deduction in international relations: Squaring the circle between theory and evidence. *International studies review*, 18(2), 195-213.

### **Qualitative and quantitative research methods in National Security**

- Dutard, Delphine Deschaux. (2021), *Research Methods in Defence Studies: A Multidisciplinary Overview*, London: Routledge.
- Kumar, R. (2005). *Research Methodology A Step-by-Step Guide for Beginners*. London: Sage Publications.
- Manheim, J. B., Rich, R. C., Willnat, L., & Brians, C. L. (2008). *Empirical Political Analysis: Quantitative and Qualitative Research Methods*. New York: Pearson Longman. (Chapter 12 and pp. 322-31)
- Geddes, Barbara (1990). "How the Cases you Choose Affect the Answers You Get: Selection Bias in Comparative Politics." *Political Analysis* 2(1): 131-50.
- Gerring, John. (2004). "What is a Case Study and What is it Good for?" *American Political Science Review* 98(2): 341-54.
- Bennett, Andrew and Colin Elman. (2007). "Case Study Methods in the International Relations Subfield." *Comparative Political Studies* 40(2): 170-95.
- Mahoney, James. (2007). "Qualitative Methodology and Comparative Politics." *Comparative Political Studies* 40(2): 122-44.
- Van Evera, S. (1997). "What are case studies? How should they be performed." In *Guide to Methods for Students of Political Science*, Ithaca: Cornell University Press. (pp. 48-88).
- Thaler, K. M. (2017). Mixed methods research in the study of political and social violence and conflict. *Journal of mixed methods research*, 11(1), 59-76.
- Lieberman, Evan S. (2005). "Nested Analysis as a Mixed-Method Strategy for Comparative Research." *American Political Science Review*, 99(3): 435-52.
- Thaler, K. M. (2012). Ideology and violence in civil wars: Theory and evidence from Mozambique and Angola. *Civil Wars*, 14(4), 546-567.
- Barkun, M. (2006) Religion and secrecy after September 11, *Journal of the American Academy of Religion*, 74, 275-301.
- Alexander, George A. & Bennett, A. (2005). *Case Studies and Theory Development in the Social Sciences*. Cambridge, MA: MIT Press. (Chapters 4-6).

### **Methods of data collection in National Security**

- Kumar, R. (2005). *Research Methodology A Step-by-Step Guide for Beginners*. London: Sage Publications. (Chapter 9 and 12)
- Manheim, J. B., Rich, R. C., Willnat, L., & Brians, C. L. (2008). *Empirical Political Analysis: Quantitative and Qualitative Research Methods*. New York: Pearson Longman. (pp. 141-330).

## Introduction to Basic Statistics

- Mahmood, A. (1977). *Statistical methods in geographical studies*. Rajesh Publication
- Levin, Jack, and James Alan Fox (1997), *Elementary Statistics in Social Research*, Boston: Allyn and Bacon.
- Agesti, Alan and Barbara Finlay (1997), *Statistical Methods for the Social Sciences*, New Jersey: Prentice-Hall.
- Freedman, David, Robert Pisani and Roger Purves (2009), *Statistics*, New Delhi: Viva Books.
- Wagner III, W. E. (2019). *Using IBM® SPSS® statistics for research methods and social science statistics*. Sage Publications.
- Pallant, J. (2020). *SPSS survival manual: A step by step guide to data analysis using IBM SPSS*. New York: Routledge.
- Paradis, E. (2002). *R for Beginners*. <https://www.cin.ufpe.br/~maod/ESAP/R/R%20for%20beginners.pdf>.
- Cotton, R. (2013). *Learning R: a step-by-step function guide to data analysis*. "O'Reilly Media, Inc."
- Purohit, S. G., Deshmukh, S. R., & Gore, S. D. (2015). *Statistics using R*. Alpha Science International.

## Remote Sensing and GIS techniques in National Security

- Chang, Kang-Tsung (2010). *Introduction to Geographic Information Systems*. New Delhi: Tata McGraw-Hill.
- Joseph, G. (2005). *Fundamentals of Remote Sensing*. Hyderabad: Universities Press Pvt. Ltd.
- Lo, C.P. and K.W. Yeung (2009). *Concepts and Techniques of Geographic Information Systems. India: PHI Learning Private Ltd.*
- National Geospatial Policy [NGP 2016], [http://dst.gov.in/sites/default/files/Draft-NGP-Ver%201%20ammended\\_05May2016.pdf](http://dst.gov.in/sites/default/files/Draft-NGP-Ver%201%20ammended_05May2016.pdf).
- National Map Policy by Survey of India, <https://www.surveyofindia.gov.in/pages/display/62-national-map-policy>.
- Singh, P. K. (2009). Spatial data infrastructure in India: status, governance challenges, and strategies for effective functioning. *International Journal of Spatial Data Infrastructures Research*, 4(4), 359-388.
- Nag, P. (2009). Geomorphological Mapping and National Map Policy. *Geomorphology in India*, 533-546.
- Kaul, R. (2017). A review of India's geospatial policy. *Space India 2.0*, 141.
- Singh, P. K. (2009). *Towards a framework for G-Governance: Case study of India*. Institute of Rural Management Anand.
- Rao, N. H. (2007). A framework for implementing information and communication technologies in agricultural development in India. *Technological Forecasting and Social Change*, 74(4), 491-518.
- Rajagopalan, R. P., & Prasad, N. (Eds.). (2017). *Space India 2.0: commerce, policy, security and governance perspectives*. Observer Research Foundation.

- Kaul, R. (2017). A review of India's geospatial policy. *Space India 2.0*, 141.
- Esri. (2014). GIS Platform for National Security <https://www.esri.com/library/whitepapers/pdfs/gis-platform-for-national-security.pdf>.

### **Plagiarism and Research Ethics**

- Howe, K. R., & Moses, M. S. (1999). Chapter 2: Ethics in educational research. *Review of research in education*, 24(1), 21-59.
- Swazey, J. P., Anderson, M. S., Lewis, K. S., & Louis, K. S. (1993). Ethical problems in academic research. *American Scientist*, 81(6), 542-553.
- Grossberg, M. (2004). Plagiarism and Professional Ethics—A Journal Editor's View. *The Journal of American History*, 90(4), 1333-1340.
- Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Health, United States*.
- Thomas, E. E., & Sassi, K. (2011). An ethical dilemma: Talking about plagiarism and academic integrity in the digital age. *English Journal*, 47-53.
- Connelly, L. M. (2014). Ethical considerations in research studies. *Medsurg Nursing*, 23(1), 54-56.

### **National Security Related Government Publications/Reports**

Annual reports of the Ministries of Defence, Home Affairs, External Affairs, Defense audit reports of the Comptroller and Auditor General of India, Parliamentary audit reports on defence, home affairs, external affairs and science and technology.