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VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉદના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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ક્રમાંક:એસ/સિલેબસ/પરિપત્ર/૧૧૯૧૮/૨૦૨૩

તા.૨૪/૦૫/૨૦૨૩

પ્રતિ,
વિભાગીય વડાશ્રી,
ડીપાર્ટમેન્ટ ઓફ રૂરલ સ્ટડીઝ,
મહાત્મા ગાંધી ગ્રામઅભ્યાસ બિલ્ડીંગ,
વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી,
સુરત.

વિષય :- M.R.S.(SD) (Five Year Integrated Programme)ના સેમેસ્ટર-૭ અને ૮
અભ્યાસક્રમ બાબત.

સુજ્ઞશ્રી,

સવિનય જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૩-૨૪ થી અમલમાં આવનાર M.R.S.(SD) (5 year Integrated) સેમેસ્ટર-૭ અને ૮ના અભ્યાસક્રમ સંદર્ભે ગ્રામઅભ્યાસ વિદ્યાશાખા અને ગ્રામઅભ્યાસ વિષયની અભ્યાસ સમિતિની સંયુક્ત તા.૧૫/૦૫/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક: ૪ અન્વયે નીચે મુજબ કરેલ ભલામણ એકેડેમિક કાઉન્સિલની તા.૧૭/૦૫/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક:૨૭ થી સ્વીકારી મંજૂર કરેલ છે. જેની આથી જાણ કરવામાં આવે છે.

ગ્રામઅભ્યાસ વિદ્યાશાખા અને ગ્રામઅભ્યાસ વિષયની અભ્યાસ સમિતિની સંયુક્ત સભાની

તા.૧૫/૦૫/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક:૪

:: આથી ઠરાવવામાં આવે છે કે, M.R.S. (SD) (5 year Integrated) ના અભ્યાસક્રમને સુધારા-વધારા સાથે મંજૂર કરી એકેડેમિક કાઉન્સિલને ભલામણ કરવામાં આવે છે.

એકેડેમિક કાઉન્સિલની તા.૧૭/૦૫/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક:૨૭

:: આથી ઠરાવવામાં આવે છે કે, ગ્રામઅભ્યાસ વિદ્યાશાખા અને ગ્રામઅભ્યાસ વિષયની અભ્યાસ સમિતિની સંયુક્ત સભાની તા.૧૫/૦૫/૨૦૨૩ની સભાનાં ઠરાવ ક્રમાંક:૪ અન્વયે કરેલ ભલામણ શૈક્ષણિક વર્ષ ૨૦૨૩-૨૪ M.R.S. (SD) ના સેમેસ્ટર-૭ અને ૮ ના અભ્યાસક્રમને સુધારા-વધારા સાથે મંજૂર કરવામાં આવે છે.

બિડાણ: ઉપર મુજબ

W. J. J.
કુલસચિવ

પ્રતિ,

- ૧) ડીનશ્રી, ગ્રામઅભ્યાસ વિદ્યાશાખા,
- ૨) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

.....જાણ તથા અમલ સારું.

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VEER NARMAD SOUTH GUJARAT UNIVERSITY

MAHATMA GANDHI DEPARTMENT OF RURAL STUDIES

MRS (sustainable development) (5 year Integrated Program)

Semester – 7

MRSSD:7.1 Course Title: Developmental economics – 1

Credit - 4

Unit – 1 – concept of economic development

- Meaning and concepts of economic development, Development and Under development, Measurement and Indicators of economic Development
- Population and economic Development – optimum theory of population, theory of demographic transition
- Economic Development and Institutions
- Market Incompleteness and Informal Institutions in the Rural Economy

Unit – 2 - Theories of economic Development – 1

- Classical Theories of Development
adam smith's theories,
ricardian theories,
Malthusian theories,
Marxian theories
- Schumpeter and Capitalistic Development

Unit – 3 - Theories of economic Development – 2

- Theories of Under development :
the big push theory
theory of critical minimum effort
Lewis's model

Unit – 4 - Development Strategies

- Allocation of Resources
- Cost-Benefit Analysis
- Role of Planning
- Trade and Development

accept

Reference

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- Todaro, Michael P. (2004), economic development, longman group UK limited, NY
- EPW research foundation (1994), "social indicators of development", economic and political weekly, may 21, pp. 1-15
- Malthus, T.R (1992). An essay on the principle of population, Cambridge university press, Cambridge.
- Cassen, R.H (1979). Population, economy, society, McMillan, delhi.
- Bardhan, pranab.(2005). Scarcity, conflicts and cooperation : essays in the political and institutional economics of development. Oxford university press, new delhi.
- Basu, kaushik(1998). Analytical development economics. Oxford university press, new delhi.
- Chaudhari, pramit (1989), the economic theory of growth, harvester wheatsheaf. London, UK
- Dobb, Maurice. (1982). Theories of Value and Distribution since Adam Smith (Indian Reprint) Vikas, New Delhi.
- Morishima, Michio (1973). Marx's Economics: A Dual Theory of Value and Growth. Cambridge University Press, Cambridge.
- Frisch, Helmut (ed) (1981). Schumpeterian Economics. Praeger Publishers. New York
- Schumpeter, Joseph A. (1942). Capitalism, Socialism and Democracy. Harper, New York. (1952) (5th edition) Allen and Unwin, London
- Gillis, M., Perkins, D.H., Roemer, M., and Snodgrass, D.R. (1992), Economics of Development (31d edition). W.W.Norton, New York.
- Meier, Gerald M. and Rauch, James E (eds.) (2000). Leading Issues in Economic Development (7th edition), Oxford University Press, Oxford.
- Aggarwal, A.N. and S.P. Singh (ed.), Accelerating Investment in Developing Economics
- Singh, D. Bright. Economics it Development
- Merior, G.M., Leading Issues in Economic Development
- Spiegelglas, S. and C.J. Helsh (eds.) Economic Development
- Thirlwall, a.P., Growth and Development
- Dasgupta, A.K. and Peace, D.W. (1972), Cost Benefit Analysis Theory and Practice. Macmillan, London
- Dinwiddy, Carolive and Teal, Francis (1996), Principles of Cost Benefit Analysis for Developing Countries, (UK. Cambridge)
- Banchet, Pierre (1964) Economic Planning: The French Experience; Heinemann: London
- Bettleheim, Charles (1959) Studies in the theory of Planning; Asia Publishing House: Mumbai
- Chenery, Hollis B., etal (ed.) 1971 Studies in Development Planning, Cambridge University Press: Harvard
- Lutz, vera (1969) Central Planning for the Economy, Longmans: Londons

VEER NARMAD SOUTH GUJARAT UNIVERSITY
MAHATMA GANDHI DEPARTMENT OF RURAL STUDIES
MRS (sustainable development) (5 year Integrated Program)

Semester – 7

MRSSD:7.2 Course Title - Environment Development and Sustainability

Credit - 4

Objectives:

This course is designed for further understanding the inter connections between environment, development and Sustainability. It deals with human dimension of development and environment. It aims to provide adequate insight on management of natural resources by imparting training in tools and techniques of ecological and environmental economics.

CO1: Demonstrate the human dimension of development and environment.

CO2: Gain insights on management of natural resources.

CO3: Train in tools and methodologies of ecological and environmental economics.

Details:

Unit:1 Concept of Development and Sustainability and its various constituents

Growth and development, technology, affluence and the Environmental Kuznet's curve

Principles of ecological and environmental economics, their scope and usefulness

Unit:2 Basic Market process, market failure and externalities, case of environmental problems Solutions to environmental problems: command and control, economic solutions

Inter relationship between development and environment and society

Unit:3 Estimation of Environmental Costs and Benefits, Cost Benefit Analysis. Valuation of ecosystem services and impact of intervention (malign and benign). Best practices in ecosystem services and sustainability of society Sustainability, issues of development and environmental protection and conflicts over resources discussed in context of Environmental Movements by taking up well known Indian and international case Studies.

Unit:4 Inter-connection and linkages of environment destruction on a global scale. Select topics.

Suggested Readings:

1. Baumol, W.J. and Oates, W.E. 1988. Theory of Environmental Policies, Cambridge University Press, Cambridge, UK.
2. Callan, S.J. and Thomas, J.M. 2013. Environmental Economics and management: Theory, Policy, and Applications. Cengage Learning.
3. Carson, Rachel. 2002. Silent Spring. Boston, Houghton Mifflin,
4. Freeman, A.M., Herriges, J.A. & Kling, C.L. 2001. The Measurement of Environmental and Resource Values. REF Press, Washington DC.
5. Freeman. A.M. 2003. Millennium Ecosystem Assessment: Conceptual framework. Island Press.
6. Hanley, N., Shogren, J.F. and White, B. 2002. Environmental Economics in Theory and Practice. Palgrave Macmillan.
7. Markandya, A. 2017. The Earthscan Reader in Environmental Economics. Routledge.
8. Tietenberg, T. 2003. Environmental and Natural Resource Economics. Pearson Education, New York.

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester: 7 (Credit:4)

MRSSD:7.3 Course Title: Human Resource Management for Public and Non-Profit Organizations

Course Description: This course is designed to provide an overview of human resource management practices and challenges in public and non-profit organizations. Students will learn the concepts and theories related to HRM, as well as the practical skills needed to manage personnel effectively. Topics will include staffing, performance management, compensation, diversity, and legal issues.

Course Objectives: By the end of the course, students will be able to:

Understand the role of human resource management in public and non-profit organizations.

Understand the legal and ethical issues surrounding HRM.

Develop skills in staffing, performance management, and compensation.

Analyze HRM challenges and opportunities in public and non-profit organizations.

Develop an understanding of how to promote diversity and inclusion in the workplace.

Course Outline:

Unit - 1: Introduction to Human Resource Management in Public and Non-Profit Organizations

Overview of HRM

Differences between HRM in the public and private sectors

Legal and ethical issues in HRM

Staffing, Recruitment and selection

Job analysis and design

Succession planning

Unit- 2: Performance Management

Performance appraisal

Employee development

Motivation and rewards

Unit-3: Diversity and Inclusion

Diversity in the workplace

Managing a diverse workforce

Legal issues related to diversity

Unit-4: Employee and Labor Relations

Employee rights and responsibilities

Employee discipline and grievances

Employee engagement

Unionization in the public and non-profit sectors

Collective bargaining

Labor-management relations

HRM Challenges and Opportunities

Strategic HRM, Technology and HRM, International HRM

References:

Textbook: Noe, R. A., Hollenbeck, J. R., Gerhart, B., & Wright, P. M. (2017). *Human Resource Management: Gaining a Competitive Advantage* (11th ed.). McGraw-Hill Education.

Additional Readings:

Flynn, J., Mathis, R. L., & Jackson, J. H. (2016). *Public Personnel Management: Contexts and Strategies* (7th ed.). Routledge.

Poole, M. S., & Van de Ven, A. H. (2016). *Handbook of Organizational Change and Innovation* (2nd ed.). Oxford University Press.

Society for Human Resource Management. (2019). *SHRM Essentials of Human Resources* (2nd ed.). Society for Human Resource Management.

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:7 Credit:4

MRSSD: 7.4 Course Title: Integrated approaches for sustainable development

This course introduces the principles and practices of sustainable development, and examines integrated approaches that can be used to achieve sustainable development goals. Students will learn about the social, economic, and environmental dimensions of sustainable development, and the challenges and opportunities associated with implementing sustainable development policies and programs. Through case studies and group projects, students will explore strategies for promoting sustainable development in a range of contexts, including urban and rural areas, developing and developed countries, and different sectors such as agriculture, energy, and transportation.

Learning Outcomes: By the end of this course, students will be able to:

Understand the concept and principles of sustainable development and integrated approaches for sustainable development.

Analyze the challenges and opportunities for sustainable development at the global and local levels.

Understand the role of policies, institutions, and governance in promoting sustainable development

Analyze case studies and best practices from different regions of the world

Unit-1: Challenges and opportunities of sustainable development

Drivers of unsustainable development

Impacts of unsustainable development on society, economy, and environment

Benefits of sustainable development

Unit: 2. Integrated Approaches for Sustainable Development

The need for integrated approaches

Integrated approaches to sustainable development

Ecosystem-based approaches

Climate-smart approaches

Circular economy approaches

Participatory approaches

Integrated policy frameworks for sustainable development

Unit-3: Governance for sustainable development

Multi-stakeholder partnerships

Participatory decision-making

Accountability and transparency

Unit -4: Implementation of Sustainable Development Strategies

Monitoring and evaluation of sustainable development strategies

Stakeholder engagement and participation

Case studies and best practices

Sustainable development in different regions of the world

Case studies of successful integrated approaches for sustainable development

References:

The Sustainable Development Goals Report (United Nations, 2021)

Supplementary Readings:

The Limits to Growth (Meadows et al., 1972)

Our Common Future (Brundtland Commission, 1987)

Doughnut Economics (Raworth, 2017)

Prosperity Without Growth (Jackson, 2017)

Kates, R.W., Parris, T.M., & Leiserowitz, A.A. (2005). What is sustainable development? Goals, indicators, values, and practice. *Environment: Science and Policy for Sustainable Development*, 47(3), 8-21.

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MRS (sustainable development) (5 year Integrated Program)

Semester:7 Credit:4

MRSSD: 7.5 Course Title: Participatory Rural Appraisal

The aim of PRA is to help strengthen the capacity of villagers to plan, make decisions, and to take action towards improving their own situation. Participatory Rural Appraisal (PRA) is considered one of the popular and effective approaches to gather information in rural areas. In addition that this paper is designed to equip the students to understand concept, theoretical approaches, Principles, Mapping, Modeling and Transects etc.

Unit - I. Introduction of Participatory Rural Appraisal

- Concept, Objective, Meaning and approaches of PRA

Unit-: II. Evolution of Participatory Rural Appraisal (PRA)

- Evolution of Participatory Rural Appraisal (PRA)
- Participation: Meaning, Types, Advantages and Limitation
- Sources of Participatory Rural Appraisal
- Rapid Rural Appraisal (RRA): Meaning, Features, Limitations
- Phases of Participatory Rural Appraisal: First Phase (Late 1980s and early 1990s), Second Phase (Mid- 199s) and Third Phase (Late 1990s to date)

Unit-III: Principles of Participatory Rural Appraisal

- Definition and Features of Participatory Rural Appraisal
- Principles of Rapid Rural Appraisal & Participatory Rural Appraisal
 - Reversal of Learning
 - Learning Rapidly and Progressively
 - Offsetting Biases
 - Optimizing Trade-off
 - Triangulating
 - Seeking Complexity and Diversity
- Additional Principles of Rapid Rural Appraisal
 - Facilitating
 - Self-Critical Awareness and Responsibility
 - Sharing

Unit-IV: Participatory Modeling and Transects

- Meaning, Participants, Procedure
- Application of Participatory Modeling with Merits and Limitations
- Transects: Meaning
- Types: Village Transects and Resource Transects
- Cultural Transects
- Evaluation of Agro-forestry

Basic Textbook

N. Narayanasamy (2009), Participatory Rural Appraisal: Principles, Methods and Application, SAGE Publication India Pvt. Ltd. New Delhi [ISBN:9352801369]

References:

Amitava Mukherjee (2004), Participatory Rural Appraisal: Methods and Applications In Rural Planning (Essays In Honour Of Robert Chambers), Concept Publishing Company, India [ISBN: 8180691055]

H. P. S. Arya (2004), Participatory Rural Appraisal in Agriculture and Animal Husbandry: A Training Manual, Concept Publishing Company, India [ISBN: 8180691160]

Kirti Shukla (2011), Participatory Rural Appraisal Technique for Farm Women, Discovery Publishing Pvt.Ltd, India [ISBN: 8183567169]

Mamata Swain (2014), Participatory Rural Appraisal (PRA): Issues and Approaches, SSDN Publishers & Distributors, India [ISBN: 9381176795]

N. Narayansamy (2005), Participatory Rural Appraisal: The Experience of NGOs in South India, Concept Publishing Company., India [ISBN: 8180691667]

Neela Mukherjee (1993), Participatory rural appraisal: Methodology and applications (Studies in rural participation), Ceocept Pub. Co. India [ISBN: 817022473X]

Neela Mukherjee (1995), Participatory Rural Appraisal and Questionnaire Survey, Concept Publishing Company Pvt. Ltd., India [ISBN: 8170225604]

Neela Mukherjee (1997), Participatory appraisal of natural resources, Concept Pub. Co. India [ISBN: 817022618X]

Prahlad Mishra (2014), Participatory Rural Appraisal (PRA): Issues and Application, SSDN Publishers & Distributors, India [ISBN: 9383158131]

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:7 Credit:4
MRS(SD)

MRSSD:7.6 Course Title: Internship

Objective: Internship is a practical work experience program that allows students or professionals to gain hands-on experience and knowledge in their field of study or career. The program provides a platform for individuals to apply the theoretical knowledge and skills they have learned in the classroom to real-world situations.

The framework of an internship program typically involves the following stages:

Planning and Preparation: This stage involves identifying the goals of the internship, such as acquiring specific skills or gaining practical experience in a particular industry. The intern should also research potential employers and determine their requirements for the internship program.

On boarding: The on boarding process typically includes an orientation to the company or organization, an introduction to the internship program, and training on specific tasks and responsibilities.

Execution: During this stage, the intern will work on specific tasks and projects assigned by the employer. The intern will be expected to meet deadlines, communicate effectively with colleagues and supervisors, and demonstrate a high level of professionalism and work ethic.

Evaluation and Feedback: The employer will evaluate the intern's performance based on criteria such as quality of work, timeliness, communication skills, and overall professionalism. The intern will receive feedback on their performance and areas for improvement.

Campus Interview : The recruitment stage involves submitting an application, including a resume and cover letter, to the employer. The employer may conduct interviews to assess the applicant's qualifications and fit for the Job placement.

Overall, an internship provides a valuable opportunity for individuals to gain practical experience, learn new skills, and build professional networks. It also allows employers to identify potential future employees and build a pipeline of talent.

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8 Credit:4

MRSSD:8.1 Course Title: Law, Society, and Sustainable Development

Course Overview:

This course explores the complex relationship between law, society, and sustainable development. Sustainable development is a concept that has gained increasing prominence in recent years, and it seeks to promote economic growth, social development, and environmental protection while ensuring the needs of future generations are met. This course examines the legal frameworks, policies, and practices that underpin sustainable development and their social and economic impacts.

Course Objectives:

The objectives of this course are to:

Develop an understanding of the concept of sustainable development and its importance in contemporary society.

Examine the legal frameworks and policies that support sustainable development.

Critically assess the effectiveness of legal mechanisms in achieving sustainable development goals.

Analyze the social and economic impacts of sustainable development policies and practices.

Explore the role of civil society, businesses, and governments in promoting sustainable development.

Course Outline:

Unit 1: Introduction to Sustainable Development

Definition and evolution of the concept of sustainable development

The importance of sustainable development in contemporary society

Sustainable development goals and indicators

Unit 2: Legal Frameworks for Sustainable Development

International law and sustainable development

National legal frameworks and policies for sustainable development

Environmental law and sustainable development

Unit 3: Sustainable Development and Social Justice

Environmental justice and sustainable development

Gender and sustainable development

Human rights and sustainable development

Unit 4: Economic Implications of Sustainable Development

Sustainable development and economic growth

Sustainable consumption and production

Sustainable finance and investment

Unit 5: Implementation and Governance of Sustainable Development

Role of civil society in promoting sustainable development

Corporate social responsibility and sustainable development

Governance structures for sustainable development

References:

A. K. Kulkarni, *Sustainable Development Law and Policy*, 3rd ed., Thomson Reuters, 2019.

R. B. Stewart, *Environmental Law and Policy: Nature, Law, and Society*, 6th ed., Wolters Kluwer, 2019.

R. W. Howarth and S. Bringezu, *Handbook of Sustainable Development*, Edward Elgar, 2019.

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8 Credit:4

MRSSD:8.2 Course Title: Renewable energy policy planning and management

Objectives:

This course introduces students with the policies developed and adopted internationally and at national level. It also makes students aware about the planning process and strategies adopted for the implementation of the policies. The course also makes students aware about various schemes of government of India and Gujarat for the promotion of renewable energy at various levels including households, farmers and large producers (public and private) of renewable energy.

Unit 1: Renewable energy and its importance in the present world. India's commitment

Unit 2: Energy policy: Need for policy, the Draft of national energy policy. Ambition and path to net zero.

Unit 3: Energy planning – nationally determined commitment

Unit 4: Schemes for promotion of renewable energy in India. For households, farmers, industry and energy producers. Grid connected and off-grid.

Suggested readings:

1. Government of India (2022) India's Nationally determined Contribution under Paris agreement. Available on <https://unfccc.int/sites/default/files/NDC/2022-08/India%20Updated%20First%20Nationally%20Determined%20Contrib.pdf>
2. Niti Ayog (2019) Draft national energy policy. Available on https://www.niti.gov.in/sites/default/files/2022-12/NEP-ID_27.06.2017.pdf.pdf
3. Government of India (2023) Schemes for renewable energy. Available on mnre.gov.in
4. Ministry of new and renewable energy (2023) Annual Report 2022-23. Available on www.mnre.gov.in
5. Niti Ayog and Rocky Mountain Institute (2020) Towards a clean energy economy. Available on https://www.niti.gov.in/sites/default/files/2020-06/India_Green_Stimulus_Report_NITI_VF_June_29.pdf
6. International Energy Agency (2022) India 2020 Energy Policy Review. Available on <https://www.iea.org/reports/india-2020>
7. OECD (2022) Linking renewable energy to rural development. Available on <https://www.oecd.org/regional/regional-policy/Renewable-rural-energy-summary.pdf>
8. International Institute for Sustainable Development (2022) Mapping India's Energy Policy 2022: Aligning support and revenues with a net-zero future. Available on <https://search.issuelab.org/resource/mapping-india-s-energy-policy-2022.html#:~:text=Mapping%20India%20Energy%20Subsidies%202022,than%20clean%20energy%20in%20India.>
9. Qubeissi A L, Ahmad and H S Soyhan (eds.) (2020) Renewable Energy: Resources, Challenges and application. IntchOpen Publishers, London. Available on https://library.oapen.org/bitstream/handle/20.500.12657/43418/external_content.pdf?seq

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Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8 Credit:4
MRSSD:8.3 Course Title: Key Concept of Cultural and Political Ecology

Cultural and political ecology are two interrelated concepts that explore the relationships between human societies and their environments. Cultural ecology focuses on how culture and human behavior shape interactions with the natural world, while political ecology examines the ways in which power and politics influence environmental management and access to resources. Below is a syllabus that covers key concepts and topics related to cultural and political ecology.

Objectives: Understand the key concepts and theories in cultural and political ecology
Analyze case studies and apply cultural and political ecology frameworks to understand environmental challenges.

Unit-1: Introduction to Cultural and Political Ecology

Definition and history of cultural and political ecology
Major theories and perspectives in cultural and political ecology

Unit-2: Key terms and concepts in cultural and political ecology

Cultural Ecology
Relationship between culture and the environment
Traditional ecological knowledge and its role in environmental management
Adaptation and resilience in cultural ecosystems
Political Ecology
Power relations and environmental governance
Environmental justice and the distribution of environmental benefits and burdens
The politics of conservation and development

Unit-3: Environmental Discourse and Representation

The role of language and discourse in shaping environmental narratives
The construction of environmental identities and imaginaries
Representations of nature in media and popular culture

Unit- 4:Climate Change and Environmental Disasters

The social and cultural dimensions of climate change
The politics of climate change mitigation and adaptation
The politics of sustainable development
The impact of environmental disasters on communities and ecosystems
Alternative visions of environmental futures

References :

1. "Political Ecology: A Critical Introduction" by Paul Robbins, John Hintz, and Sarah A. Moore (Wiley, 2019)
2. "Ecological Imperialism: The Biological Expansion of Europe, 900-1900" by Alfred W. Crosby (Cambridge University Press, 1986)
3. "Ecology and Power: Struggles over Land and Material Resources in the Past, Present, and Future" edited by Alf Hornborg and Brett Clark (Routledge, 2012)
4. "Nature and Power: A Global History of the Environment" by Joachim Radkau (Cambridge University Press, 2008)
5. "The Political Ecology of Disease in Tanzania" by Meredith Turshen (Rutgers University Press, 1984)
6. "The Death and Life of Great American Cities" by Jane Jacobs (Vintage, 1992)
7. "The Environmentalism of the Poor: A Study of Ecological Conflicts and Valuation" by Joan Martinez-Alier (Edward Elgar Publishing, 2002)
8. "Ecological Economics: Principles and Applications" by Herman E. Daly and Joshua Farley (Island Press, 2011)
9. "Political Ecology: Beyond Environmentalism" by Dimitrios Zikos (Routledge, 2016)
10. "The Origins of Capitalism: A Longer View" by Ellen Meiksins Wood (Verso, 2017)

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8 Credit:4

MRSSD:8.4 Course Title: Science and policies of climate change

Objective: This course is designed to give in-depth knowledge about the causes and mechanism of climate change. It also gives knowledge about various policies adopted by various international agencies and countries worldwide.

Unit 1: Climate change as a natural phenomenon. Accelerated pace of climate change due to human action.

Unit 2: The greenhouse gases and their contribution to climate change

Unit 3: United Nations commitment to restrict further climate change: The Kyoto protocol, The Montreal Protocol, Paris Agreement,

Unit 4: India's commitment to restrict climate change. National Action Plan for Climate Change, Policies for averting climate change.

Selected readings:

1. Wolfson R and S H Schneider (2002) Understanding climate science. In Schneider S H, A Rosencranz and J O Niles (Eds.) Climate Change Policy: A Survey. Island Press

Washington (DC). Available on

https://stephenschneider.stanford.edu/Publications/PDF_Papers/Ch01ClimatePolicy.pdf

2. Le Treut, H., R. Somerville, U. Cubasch, Y. Ding, C. Mauritzen, A. Mokssit, T. Peterson and M. Prather, 2007: Historical Overview of Climate Change. In: Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor

and H.L. Miller (eds.)). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Available on

<https://www.ipcc.ch/site/assets/uploads/2018/03/ar4-wg1-chapter1.pdf>

3. Schmittner A (2018) Introduction to climate science. Oregon State University.

Available on <https://open.umn.edu/opentextbooks/textbooks/860>

4. Houghton J (2004) Global warming: The complete briefing. Cambridge University Press. Available on <http://www.gci.org.uk/Documents/Global-Warming-the-Complete-Briefing.pdf>

5. The Royal Society (2020) Climate change: Evidences and Causes. The Royal Society.

Available on

https://royalsociety.org/~media/royal_society_content/policy/projects/climate-evidence-causes/climate-change-evidence-causes.pdf

6. Gol (2022) National action plan on climate change. Available on <http://www.nicra->

[icar.in/nicrarevised/images/Mission%20Documents/National-Action-Plan-on-Climate-Change.pdf](http://www.nicra-icar.in/nicrarevised/images/Mission%20Documents/National-Action-Plan-on-Climate-Change.pdf)

7. Gol (2022) India's long-term low-carbon development strategy. Ministry

Environment, Forest and Climate Change, Government of India. Available on

https://unfccc.int/sites/default/files/resource/India_LTLEDS.pdf

8. United Nations (2022) The Paris Agreement Explained. Available on

<https://www.un.org/en/climatechange/paris-agreement>

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8

MRSSD:8.5 Course Title: Social Research methods

Objectives

On successful completion of the course, the student will be able to:
conceptualize and operationalize the of Research problem

- design quantitative and qualitative studies with appropriate methodology
- prepare scientific research reports

Unit I: Introduction Social Science Research: Characteristics and Limitations

– **Methods and Methodology** - Philosophical Foundations of Research: Ontological and Epistemological - Types of research: Inductive and Deductive, Pure and Applied, Quantitative and Qualitative, and Social Action Research - Ethical Considerations in Social Science Research

Unit II: Types of Research Design

Descriptive Design - Explanatory Design - Exploratory Design - Experimental Design - Diagnostic Design

Unit III: Research Problem and Hypotheses

Framing Research Questions and Objectives - Formulation and Conceptualisation of Research Problem – Hypothesis: Types - Characteristics of good hypotheses - Testing hypotheses
Unit IV: Sampling Framework * Probability sampling : Simple random, Systematic, Stratified, Multi-stage, Cluster and Area sampling * Non Probability Sampling : Accidental, Purposive, Quota and Snowball sampling

Unit V: Research Data - Management and Reporting

- Sources of data: Primary and secondary
- Quantitative methods of data collection: Interview, Questionnaire, Schedule method and Observation - Qualitative Methods of data collection: Participant Observation, Focus Group Interviews, Oral History And Narratives, Content Analysis and Case Study
- Data Processing, Analysis and Interpretation – Use of Statistics in research – Use of Statistical packages - Writing research report: Addressing research question - Writing Strategies - Structure and style of reports - Referencing and Citation

Prescribed Readings

Babbie Earl (2008), *The Basics of Social Research*, Printed at Thomson Higher Education, USA.

Biber Sharlene N.H and Leavy Patricia (2011), *The Practice of Qualitative Research*, Second Edition, Los Angeles: Sage Publications.

Blalkie, N. (2010) *Designing Social Research*. 2nd Edition, Cambridge: Polity Press. (Refer Introduction & Chapter 1 – 7)

Burton Dawn (2000), *Research Training for Social Scientists*, New Delhi: Sage Publications.

Cargan Leonard. (2008), *Doing Social Research*, New Delhi: Rawat Publications.

Jackson L. Sherri, (2009), *Research Methods and Statistics*, New Delhi: Rawat Publications.

Suggested Readings

Elliott, Alan C and Woodward Wayne, A.(2007). *Statistical Analysis-Quick Reference Guidebook*, New Delhi: Sage Publications.

Gomm Roger (2008) *Social Research Methodology: A Critical Introduction*, New York: Palgrave Macmillian.

Osborne W. Jason, (2008), *Best Practices in Quantitative Methods*, London: Sage Publications.

Veer Narmad South Gujarat University, Surat
MRS (sustainable development) (5 year Integrated Program)

Semester:8
MRSSD:8.6 Dissertation

Dissertation

[100%]

- In this paper student has to prepare filed based dissertation.
- Dissertation can be prepared individually or in group.
- They are expected to use social research methodology and various techniques of social Research.
- SWOT analysis can be an integral part of dissertation prepared by student.

Evaluation of Dissertation

- Internal Evaluation: Based on Continuous Evaluation and Viva-Voce Examination (30%)
- External Evaluation: Based on Dissertation + Viva-Voce Examination(70%)