

# SAVITRIBAI PHULE PUNE UNIVERSITY

## Syllabus for MA in Natural Resource Management and Sustainable Development

Sustainable Development perspective has made all of us relook into present human way of life so that preservation, conservation, development and management of present available natural resource will be assured and the rights of future generations to live their lives justly could be ensured. Industrialization, globalization as well as so called modernization have contributed in deterioration of Natural resources of today and many kinds of disasters are faced by the human life. It is high time to get aware, learned and be equipped to take proactive actions towards the sustainability of existing Natural Resources of present Era in preserving universe .

Hence Social Centre Ahmednagar as pioneering NGO/ Voluntary organization registered under the Trust Act and Society Registration Act in year 1969 and working last 49 years for water and soil conservation works of watershed management projects in Maharashtra, finds value in proposing and commencing the Postgraduate course on Natural Resource Management at Social Centre, Ahmednagar with affiliation to and recognition of Savitribai Phule Pune University's BCUD office.

Social Centre has pioneering experiences in modelling of 'Ridge to Valley' watershed management programme, which is a comprehensive approach towards management, preservation and rejuvenation of Natural Resource Management making human life better. This has helped to reduce migration of rural poor by finding jobs and income, food security, and water security even in their villages in this present years of drought in Maharashtra. These all experiences with more than 127 villages of watershed management have helped us to realize the need to have a larger sharing of the knowledge and expansion. Field lab tested technologies and professional skills required for natural resource management, those gained through Watershed Management interventions since last fifty years of rural service need to be taken to the university education system where theoretical scientific knowledge gets disseminated to young human resource so that they could build their capabilities for effective contribution to society/ nature in which they live .

The importance and need of such a course at Post graduate level on Natural Resource management are follows:-

- 1) Present environmental challenges and Climate change challenges need wise response to mitigate.

- 2) Lack of tested knowledge hardly has been disseminated through university education system and presently UGC list of syllabus list or courses has a lacuna to provide post graduate education on Natural Resource management which could train the human resource for the same and for pursuing sustainable development movement further.
- 3) To transfer laboratory tested knowledge on Natural Resource management for extensions and theorization of it for the university level education
- 4) To create a management level human resource to take up leadership in enhancing the response towards sustainable use and management of Natural resources justly at various agencies like NGO/Government/ national/ international development agencies to manage the projects with professionally and duly trained capacities, having valid knowledge for the practice of the same.
- 5) To fill up present missing gap of qualified human resources to work in the field of sustainable development with special reference to Natural Resource management in the country.
- 6) This course will directly or indirectly will be contributing in archiving in the areas of Universal 17 Sustainable goals BY 2030; through creating required human resource for the country. Specific SDGs 2030 like –1- Poverty,2- Food security, 5-Gender equality and women’s empowerment,6- Water and Sanitation, 13- Climate Change,14- Oceans 15- Biodiversity, forests, desertification, 17-Partnerships

**Methodology of the education of the course will be:**

Natural Resources are unique for various disciplines of knowledge and base for human life development; hence it follows in multidisciplinary sectors of education. Present university courses on the subject concerns mainly talks and teach theoretical framework and fewer competencies on practice based application of knowledge for society at large; where change and interventions are required for collective, mass actions to mould present exploitative human culture and way of life which lack in caring nature. This proposed course looks forward for multidisciplinary knowledge of theories as well as for professional skills; which could make capabilities proactive for services providers towards the cause. Hence this course tries to have interface with disciplines like Environmental science, Social work education’s discipline of practice base methods of professional skills to bring desired social change for bettering of rural and urban communities, societies at large. This course combines the theoretical aspects of subjects of environment science and practice base methods of social work professional educational discipline which will equip interested students of the course to bring wider social change and support.

The core courses for this post graduate course do follow in two major disciplines- those are Environment Science discipline focused on natural resource management aspects and group work, community organization, research methodology and participatory development approach for various stakeholders of sustainable development. Professional skills of

practice methods of social work will help to bring effective interventions towards socio-economic problems of human life due to the deterioration levels of present natural resources which requires knowledge based scientific solutions and actions.

Hence the present course demands classroom theory based knowledge dissemination from environment discipline with applied qualities of social work practice methods to bring the change to solve the problems of communities/ societies/ settlements with special reference to Sustainable management and conservation of natural resource for assurance of better human life.

The field work over 4 semesters will include the following components -concurrent or block field work or a combination of both; rural camp; study tour; final block placement. However rural camp and study tour. The course will also allow field project based assignments/visits to rural/urban areas or model projects of sustainable development with special reference to NRM intervention/social development/ industrial visits in the nearby geographical area. These would be for the entire batch as per available learning opportunities and needs of the courses.

This is a multidisciplinary course hence knowledge and learnings are borrowed from various professional practices so it will be more suitable course for Sustainable Development perspective.

Research dissertation in second year is compulsory and in third and fourth semesters, students will work equivalent to 8 credits on it and research report/ dissertation needs to in printed form.

**Credits of the Course: Total 64 credits- M.A. Course Total course with practicum 16 courses with 4 credits each**

**Methodology of Education:** Classroom theory with field base direct community level lab Practice.

**Grade point for each course: 10 Grades**

**Evaluation of course: 60%/ 40 % (Written Exams and Field practicum Evaluation)**

**Eligibility of the course: Any graduate from recognized university with Minimum of 55% marks**

**Job opportunities after the course completion for the students with a degree:-**

This course will equip the persons to work confidently issues related to NRM and its various emerging concerns. They will be trained human resource/ professionals in capacity to work as-

1- Project coordinators for management and implementation of the environmental projects- in government at various level, NGOs developed projects, International Development Projects related with conservation and protection of NRM .

2- State level and central levels concern government departments like Environment, Watershed Development, Climate Change Mitigation,

3- After years of experiences with project implementation they could be work as consultant, technical advisor.

4- Administrative posts in government through competitive exams like BDOS, Collectors etc. Teachers in schools & colleges, CSR offices of Corporate,

5- They may start own NGOS, Not for profit Companies, consultancy services, groups etc.

6-They may work as researcher on NRM degradation, pollution control officer in local self government.

Course No	Title of COMPULSORY Courses	Credits	Course / units
	Semester I		
NRM-1	Sustainable Development Perspective and Natural Resource Management.	4	Unit 1, 4( 30 hours)
			Unit 2,3( 30 hours)
NRM-2	Socio, Eco& Political dimensions of Natural Resource Management and challenges	4	Unit 1,2,3( 45 hours )
			Unit 4( 15 hours )
NRM-3	Response of International /National & local to NRM and climate change Challenges	4	Unit 1,2,3,4.
NRM-4	Field exposures to various attempts towards present status of NRM practices	4	
	<b>Semester II</b>		
NRM-5	Water resource management and Integrated Approach to NRM	4	UNIT 1,2,3,4
NRM-6	Sustainable development practices of NRM and Methods of Social work profession ,	4	1,2,3,4
NRM-7	<b>Research Methodology:-</b> Qualitative, Quantitative and Participatory Research Methods .	4	Unit 1,2,3,4
NRM-8	Filed work practicum and Placement at watershed programme villages of Social Centre	<b>4</b>	
	<b>Semester III</b>		
NRM-9	Laws, Policies and Governance AND Climate Change Mitigation	4	Units 1,2,3,4
NRM-10	Role of technologies, GIS, PRA, Remote sensing,	4	
NRM-11	Research project I- Selection of research concern , preparation of tools, proposal writing etc.	4	
NRM-12	Filed work practicum in areas of Climate change mitigations.	4	
	<b>Semester IV</b>		
NRM-13	Disaster Management and NRM	4	Units 1,2,3
NRM-14	Financial budgeting, Accounting skills for project management, Records Maintenance, Social auditing	4	Units 1,2,3,4
NRM-15	Research Project II data analysis and writings of report and submission	4	

NRM-16	Fieldwork Practicum on Social Action to bring change in the community special reference to NRM	4	
	<b>Total Credits</b>	64	
	<b>OPTIONAL COURSES</b>		
NRM -17	NGO management, Development projects management	4	Units 1,2, Units 3,4
NRM-18	Biodiversity and Natural Resource Management	4	Units 1,2,3,4
NRM-19	Natural Resource Management & Livelihood perspective	4	Units 1,2,3,4
NRM-20	Social Case Work Methods of Social Work / Working with Individuals	4	Units 1,2,3,4
NRM-21	Project Management, Implementation, Monitoring and Evaluation	4	Units 1,2,3,4
NRM-22	Basic Counseling Skills and Professional practice in various setting	4	

## Course Syllabus

**Syllabus for The proposed Post Graduate course on “Natural Resource Management and Sustainable Development”. 64 Credits of four modules in each course of 15 hours for one unit**

**NRM-1:- Sustainable Development Perspective and Natural Resource Management. 4 credits: 60 hours teaching**

**Objectives of the course:-**This foundation course will be bringing over all understanding and knowledge about concepts of Sustainable Development, Various Natural Resources like water, land, plants, animals, air, space, forest etc. Environmental pollution and deterioration of natural resources and its ill effects on society.

**Module / unit No1:-15 lectures**

Concept of Development, Sustainable development, various perspectives of development- Ecological perspective, economic perspective, social perspective, Industrial perspective. Global Development challenges. Millennium Development Goals 2000-2015, Sustainable development goals- SDGs 2015, 2030-1-Poverty 2-Hunger and food security 3-Health 4-Education 5-Gender equality and women’s empowerment 6-Water and Sanitation, 7-Energy 8-Economic Growth 9-Infrastructure, industrialization 10-Inequality 11-Cities 12-Sustainable consumption and production, 13-Climate Change 14-Oceans 15-Biodiversity, forests, desertification 16-Peace, justice and strong institutions 17-Partnerships. Various summits at international level as global response for collective responsibility in saving universal challenges.

**References:-**

*H. M. Saxena- Environmental Geography (ed 3) - Rawat Publication-2017(Sustainable development ch.17pp261-270, Ch18-275-290, Ch-20-316-339,)*

*Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016(Sustainable Development Ch23pp519-556)*

*Archana Sharma- Environment-Face The Challenge Academy-2016(Sustainable development goals (ChIX-pp-99-103)*

*Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015(Evolution of Sustainable developmentconcept Ch1,Pp 7-18)*

*Asheem Srivastav & Suvira Srivastav “ Ecological Meltdown – Impact of Unchecked Human Growth on the Earth’s Natural Systems( Ch9,pp233-268)*

**Module/ unit No2:- 20 lectures** Understanding various natural resources – water, soil, air, space, forest, plants, animal, etc. Renewable and non-renewable resources. Natural resources and associated problems. a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: Use and exploitation, environmental effects

of extracting and using mineral resources, case studies. d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies. f) Land resources: Land as a resource, land degradation, man induced Landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles)

### **References:-**

- R.Rajagopalan- Environmental Studies From Crisis to Cure, 3<sup>rd</sup> edition- 2016( Ch3,4,5,6,7,8 -pp-33-124)*
- Rajesh K.Prasad, T.P. Ojha- Non Conventional Energy Source (ed 4)- Jain Brothers Publication-2014( Energy conventional and non conventional )*
- D.P. Kothari, K.C Singal, Rakesh Ranjan- Renewable Energy Sources And Emerging Technologies (ed 2)- PHI Learning Private Limited Delhi-2014( Renewable energy resource)*
- Y P Abbi, Shashank Jain- Handbook on Energy Audit and Environment Management - Teri-2006( Energy )*
- K. Manikandan, S. Prabhu IFS- Indian Forestry (ed 4)- Jain Brothers-2015( Forest resources)*
- G.S. Sawhney- Non - Conventional Energy Resources-P.H.I Learning Private Limited-2016( All chapters Non conventional energy )*

### **Module /Unit 3: 10 lectures**

Concept & Meaning of ECOLOGY, ECOSYSTEM, Structure and function of an ecosystem. Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession. Food chains, food webs, ecological pyramids. Introduction, types, characteristic features, structure and function of the following ecosystem:-a. Forest ecosystem b. Grassland ecosystem. Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

### **References:-**

- H. M. Saxena- Environmental Geography (ed 3) - Rawat Publication-2017 Ch-3,4,5 pp-23-74)*
- R.Rajagopalan- Environmental Studies From Crisis to Cure, 3<sup>rd</sup> edition- 2016( Ch3- pp23-42)*
- Savindra Singh- Environmental Geography- Pravalika Publication Allahabad-2016(Ecology, Ecosystem Ch-4,5pp46-66, Energy Ch-8pp 99-111)*

### **Module/ unit No4:- 15 lectures**

Seminar presentation by students on above learning's of theoretical aspects of concepts and social reality of life and application to personal, group and community life in Preservation, conservation, critical sustainable use of, management and development of natural resources. This will help developing critical, analytical and presentation skills as professionals/ students of the subjects

### **References:-**

1. Ananth Krishnan, T.N., 1999; Bio resources Ecology; Oxford IBH Publishing Company New Delhi.
2. John G. Rau and David C. Wooten, University of California – Concepts of Environmental impact Analysis Hand book 1980 –, Mc Graw Hill Book Company, USA
3. WWF 1988; Conservation of Biological Diversity, a draft report, New Delhi.
4. Odum E P. Fundamentals of Ecology
5. Krishnamurthy K V (2003). An Advanced Textbook on Biodiversity – Principles and Practices. New Delhi: Oxford and IBH Publishing.
6. Caudhuri A B and Sarkar D (2003). Mega diversity Conservation Flora, Fauna, and Medicinal Plants of India's Hotspots. New Delhi: Daya Publishing House.
7. Forest Conservation Act 1980 (with Amendment in 1988)
8. Indian Forest Act (1878 and 1927)
9. R. N. Bhargava, Keith Olson, Lynn Tiede - Ecology and Environment -Teri2016
10. H. M. Saxena- Environmental Geography (ed 3) - Rawat Publication-2017
11. Lisa M.Benton, John Rennie Short-Environmental Discourses' And Practice-Blackwell Publishers-2000
12. Remi Genevey, Rajendra K.Pachauri Laurence Tubiana- Reducing Inequalities A Sustainable Development Challenge-Teri
13. Prithwish Roy- Resource Studies-New Central Book Agency-2000
14. Archana Sharma- Environment-Face The Challenge Academy-2016
15. Dr. Punam Sharma Dr. Rashmi Gupta- Environmental Science Paper 1 & 2-Arihant Publication
16. S.C. Santra- Environmental Science-New Central Book Agency-2016
17. K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967
18. Rajesh K.Prasad, T.P. Ojha- Non Conventional Energy Source (ed 4)- Jain Brothers-2014
19. Eugene P. Odum- Ecology (ed 2)- Oxford And IBH Publisher-1970
20. Shankar IAS Academy- Environment (ed 4)- Shankar IAS Academy-2016
21. P.D. Sharma- Ecology And Environment (ed 12)- Rastogi Publication-2015
22. K. Manikandan, S. Prabhu IFS- Indian Forestry (ed 4)- Jain Brothers-2015
23. R. Rajagopalan- Environmental Studies From Crisis To Cure (ed 3)- Oxford University Press-2016
24. Dr.J.P. Sharma- Environmental Studies (For Ungraduate Cources(ed 4))-University Science Press-2017.
25. Jvs Murty- Watershed Management (ed 2)- New Age International Publishers-2013
26. Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015
27. Abhijit Mitra,Tanmay Ray Chawdhari- Basic Of Environmental Science-New Central Book Agency-2017

28. Aulay Mackenzie, Andy S. Ball, Sonia R. Virdee- Ecology (ed 2)- Viva Books Private Limited-2002
  29. G.S. Sawhney- Non - Conventional Energy Resources-P.H.I Learning Private Limited-2016
  30. D.P. Kothari, K.C Singal, Rakesh Ranjan- Renewable Energy Sources And Emerging Technologies (ed 2)- PHI Learning Private Limited Delhi-2014
  31. S.R. Reddy- Irrigation Agronomy-Kalyani Publisher-2007
  32. Euene P. Odum, Gray W. Barrett- Fundamentals Of Ecology (ed 5)- Cengage Learning-2005
  33. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
  34. K.V. Krishnamurthy- A Advance Textbook On Biodiversity-Oxford & IBH Publishing-2014
  35. Y P Abbi, Shashank Jain- Handbook on Energy Audit and Environment Management - Teri-2006
  36. Asheem Srivastav& Suvira Srivastav “ Ecological Meltdown – Impact of Unchecked Human Growth on the Earth’s Natural Systems” TERI, New Delhi
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**NRM-2: Socio, Eco& Political dimensions of Natural Resource Management and Development. (4 credits: 60 hours teaching)**

**Objectives of the course:** The society in which we live has various dimensions; those affects, influence our environment in which we live and hence understanding of it matters the most. Concerns related to Natural Resource management also get influence of socio, eco and political dimensions the place, geographical areas, state in which communities live in hence it is good to have understanding of these factors. How various social sciences disciplines are important to know to have comprehensive understanding of any development issues.

**Module/ Unit 1 :- (15lectures) Social Actions and Movements:** Nature and characteristics of social movements; (Ref,No. 42, chapter 15, pg. 427-443) contributing and restricting social movements. (Ref No. 39, chapter 21, Pg. 611-624, Ref No. 42, chapter 15, pg. 427-443) Environmental Movements, (Ref No. 42, chapter 15, pg. 427-443) (Ref No. 42, chapter 15, pg. 427-443) Literacy and Basic Education (Ref N0. 44, chapter 23) Campaign, No. Women's Movements, (Ref No. 2, chapter 3, pg, 3-17. ) Social movements and social change

**Module/ Unit 2:-(15lectures) Social Processes, Social Change:** Concepts, processes, agents of social change and theories of social change; (No. 42, chapter 15, pg,417-426, No. 37 pg. 626-629.) Social structure and anomy; (No. 42, chapter 4, 5, 7) Conflict theory, conformity and deviance, (No. 42, chapter 6,) Globalisation and change (No. 42, chapter 7,)

**Module/Unit3:(15Lectures ) Environmental Sociology:** Constitutional Provisions and Environmental Laws in India, (Ref No. 24 chapter 26) Environmental Movements in India, ( N0.15 chapter 29) Population Growth and Environmental Problem, (Ref N0.15,chapter 25, Ref Ref No.6, chapter 5, No.16, pg, 234-278,) Environmental Protection Agencies and institutions in India, (Ref .N0.15 chapter 22 23 ) caste , religions, class and gender factors and NRM

**Module Unit 4- (15 lecture) Political Economy and Natural Resource management** Capitalism and Neo-liberalization, Privatisation and Globalization (LPG), Policies of states, (Ref N0.15 chapter 30) Economics of Environment: Meaning, Nature, Scope and Significance, (Ref No.16, chapter 1, pg. 1=13) Common Property Resources - Eco-systems, (Ref No.16, pg, 83-119,) – Loss of Bio-diversity, Ref No.16, pg, 83-119,) Environmental degradation, Industrial Development And Environmental Problems , Water pollution – Air Pollution – Noise Pollution (Ref No.16, pg, 169- 233, No 15, chapter 5) , Depletion of Ozone Layer (Ref No.15, chapter 19,– Green House Effect, (Ref N0.15 chapter 17) Global Warming and Climate Change effects on economy (Ref N0.15 chapter 23, Ref No. 24, chapter 13 and 20), farmers suicides', health economic and hazards on health cost etc(Ref N0.15 chapter 29)

## References:-

1. Malashri Lal- Gender and Diversity-Rawat Publication-2015
2. Rekha Pande- Gender Lens & Women Issues Perspective-Rawat Publication-2015
3. Maggie Humm -Practicing Feminist Criticism-Rawat Publication-1995
4. Ute Collier and Ragnar Elofstedt- Case In Climate Change Policy-Earth Scan Publication-1997
5. Thomas D. Potter Bradley R.Colman- Handbook of Whether Climate And Water-Wiley Interscience publication-1929
6. R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment-Teri-2016
7. H. M. Saxena-Rawat Publication- Environmental Geography (ed 3)- 2017
8. Lisa M. Benton , John Rennie Short- Environmental Discourses And Practice-Blackwell Publishers-2000
9. Remi Genevey, Rajendra K.Pachauri Laurence Tubiana- Reducing Inequalities A Sustainable Development Challenge-Teri
10. Rabindra N. Bhattacharya- Environmental Economics A Indian Perspective-Oxford University Press-2001
11. Archana Sharma- Environment-Face The Challenge Academy-2016
12. Dr. Punam Sharma Dr. Rashmi Gupta- Environmental Science Paper 1 & 2-Arihant Publication.
13. S.C. Santra- Environmental Science-New Central Book Agency-2016
14. Shamna Hussian, Shailesh Shukla- Biodiversity, Envirment & Disaster Management-Unique Publishers-2015
15. Shankar IAS Academy- Environment (ed 4)- Shankar IAS Academy-2016
16. Dr.J.P. Sharma- Environmental Studies (For Ungraduate Courses(ed 4))- University Science Press-2017
17. Jvs Murty- Watershed Management (ed 2) - New Age International Publishers-2013
18. K.R. Chandhoke- Environmental engineering And Disaster Management-Jain Brothers-2012
19. P.K. Gupta, V.K. Sonarkar, S.B. Nimbalkar- Solid Waste Management-Nirali Prakashan-2017
20. Dr. Probir Kumar Bose, Dr. Pradipta, Kumar Bose- Environment Ecology & Sustainable Management-Everest Publication House-2007
21. Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015
22. Abhijit Mitra,Tanmay Ray Chawdhari- Basic Of Environmental Science-New Central Book Agency-2017
23. Aulay Mackenzie, Andy S. Ball, Sonia R. Virdee- Ecology (ed 2)- Viva Books Private Limited-2002
24. Savindra singh- Climatology-Pravalika Publication Allahabad-2016
25. G.S. Sawhney- Non - Conventional Energy Resources-P.H.I Learning Private Limited-2016

26. D.P. Kothari, K.C Singal, Rakesh Ranjan- Renewable Energy Sources And Emerging Technologies (ed 2)- PHI Learning Private Limited Delhi-2014
  27. Euene P. Odum, Gray W. Barrett- Fundamentals Of Ecology (ed 5)- Cengage Learinig-2005
  28. Paniel B. Botkin, Edward A. Keller- Environmental Science (ed 6)- Wiley Student Edition-2009
  29. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
  30. Pritam Sorokin-Contemporary Sociological Theories-Harpar & Brothers Publishers
  31. Anthony Giddens-Sociology (ed 5)- Polity Press-2006
  32. George Ritzer-Sociological Theory (ed 7)- Mc Graw Hill Publication- 2008
  33. Vidya Bhushan, D. R. Sachdeva- An Introduction To Sociology- Kitab Mahel
  34. Work As Key To The Social Question- Libreria Editrice Vaticanu Press City- 2002
  35. Rodger, Charles S.J-Christain Social Witness And Teaching- Gracewing Publication- 1998
  36. Alan Brayman -Social Reasearch Method (ed 4)- Oxford University Press- 2012
  37. Jhon J. Macionis -Sociolgy (ed 10)- Pearson Education
  38. Peter B. Clarke -The Oxford Handbook Of The Sociology Of Religion- Oxford University Press- 2009
  39. Rodney Stark -Sociology (ed 4)- Wadsworth Publication- 1985
  40. Alan Swingewood-A Short History Of Sociological Thought (ed 3)- Palgrave- 2000
  41. Jhonthon H. Turner, Leonara Beeghley, Charles H. Powers-The Emergence Of Sociological Theory- Thomson Wcdworth- 2007
  42. James M. Henslin - Essentials Of Sociology (ed 5)- Pearson- 2004
  43. Marvin L. Krier Mich-Catholic Social Teaching And Movements- Twenty- Third Publication -1998
  44. P.D.Sharma, ecology and environment, Rustogi publication, Gangotri Shivaji road, 2014-15,
  - 45.
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**NRM-3: International /National & local Response to Natural Resource Management. 4 credits: 60 hours teaching**

**Objectives of the course:** To know the efforts, policies and programmes of various stakeholders like international agencies -UNO, World Bank, IMF, National level Environment ministry of GOI, other institutions, state government, Policy framework, programmes, International and national regulations, laws, Statute, declaration, its execution process, International development agencies etc.

**Module/ Unit 1:-(15 Lectures )** International agencies UNO, World Bank, IMF, etc. Collaborations on Natural Resource Management Policies, guidelines monitoring, evaluation, regulation, various programmes. Research and development etc. Various international summit and their agenda and achievements towards NRM. **UN-Rio De Janeiro- Earth Summit 1992** June 3-14, Kyoto Protocol -The **Kyoto Protocol** is an international treaty which extends the 1992 United Nations Framework Convention on Climate Change (UNFCCC) that commits State Parties to reduce greenhouse gas emissions, based on the premise that (a) global warming exists and (b) human-made CO<sub>2</sub> emissions have caused it. International conventions on Environment for safety and preservation towards natural resources protection and preservation & safety.

Various institutions formed by UN- United Nations Forum for Forest (UNFF), United Nations Convention to Combat Desertification( UNCCD) Convention on Bio diversity, United Nations Environment Programme etc.

**References**

*S.C. Santra- Environmental Science-New Central Book Agency-2016( International and national social movement in environment preservation Ch64, pp -1413-1483)*

*Archana Sharma- Environment-Face The Challenge Academy-2016(International conventions, agreements PP-121-154)*

*Asheem Srivastav & Suvira Srivastav "Ecological Meltdown – Impact of Unchecked Human Growth on the Earth's Natural Systems (international conventions Ch8,210-231)*

**Module/ Unit 2:-(15 Lectures )-** National Agencies, State role- policy formation, formation of laws, regulations, execution etc. Ministries at centre and states Local Self Government like ZP, Block level agencies Grampanchayat, Municipality, Corporation, ZP, Block level agencies etc. Role towards execution of Policies and programmes and statutory duties and programmes towards preservation and conservation of natural resources. National Green Tribunal( NGT) Fundamental Rights and Duties, Article 48A, 51A (g) and 58A.

1. The Water (Prevention and Control of Pollution) Act – 1974
2. The Air (Prevention and Control of Pollution) Act – 1981
3. Indian Forests Act (Revised) 1982. The Environment (Protection) Act, 1986
4. The Indian Wildlife (Protection) Act – 1972 amended 1991
5. The Public liability Insurance Act, 1991
6. The National Environmental Tribunal Act, 1995
7. The Biological Diversity Act, 2002

8. National Environmental Policy-2004
9. National Forest Policy-1988
10. National Water Policy-2012
11. The wild life protection Act-1972
12. Policies on Renewable and Non renewable energy resources-.
13. Ute Collier and Ragnar Elofstedt- Case In Climate Change Policy -Earth Scan Publication-1997
14. CRZ regulations-2011

### **References**

*Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015( National water policy –pp23-24)*

*S.C. Santra- Environmental Science-New Central Book Agency-2016*

*Archana Sharma- Environment-Face The Challenge Academy-2016(national laws, policies, conventions, agreements,( PP- 111-120)*

**Module/ Unit 3:-(15 Lectures )** -Various NGOs and their contributions, and NRM efforts, Civil societies and peoples' stakeholder ship. Pressure groups, civil societies -duties and programmes towards preservation and conservation of natural resources. International, National social movements for saving environment e.g. Chipko movement, Appiko movement, Narmada anadolan etc. International standards and Environment –ISO- 14000 family - regarding companies responsibilities towards environment protection etc.

### **Reference**

*Archana Sharma- Environment-Face The Challenge Academy-2016(Movements, international conventions International (Ch,9,pp110-111 )*

*Asheem Srivastav & Suvira Srivastav “ Ecological Meltdown – Impact of Unchecked Human Growth on the Earth's Natural Systems( Ch9,pp233-268)*

**Module/ Unit 4:-(15 Lectures )** – Seminar presentation on various inputs provided and its linkage to practical life around and possible mitigation strategies useful.

(Guest lecturers, government officers, forest , watershed, pollution control authorities, social workers from NGOs, Activists and voluntary organisations to make case studies presentations, study tours to some of the projects to see the partnership of government, NGOs, and local self-government, presentation on some very important documents, )

### **References:-**

1. Tilbury, D. and Wortman, D. (2004) Engaging People in Sustainability (IUCN, Gland, Switzerland)
2. Wals, A. (ed.) (2007). Social learning towards a sustainable world. Wagening: Academic Publisher

3. R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment-Teri-2016
  4. Lisa M. Benton , John Rennie Short- Environmental Discourses And Practice-Blackwell Publishers-2000
  5. Shamna Hussian, Shailesh Shukla - Biodiversity, Environment & Disaster Management- - Unique Publishers-2015
  6. Shankar IAS Academy- Environment (ed 4)- Shankar IAS Academy-2016
  7. Asheem Srivastav& Suvira Srivastav “ Ecological Meltdown – Impact of Unchecked Human Growth on the Earth’s Natural Systems
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**NRM-4:- Field based learning while interaction with world around and development of critical understanding .Field exposures to know the problems and challenges in the society**  
**4 credits: 60 hours teaching.**

**Objectives of the course:** - Knowing and understanding the state of degradation of NRM through exposure visits, study tours to villages, rivers, lands, mountains, forest, rural - urban issues etc.

**Module/ Unit 1,2,3,4 practical visits and getting first hand experiences of degradation of NRM**

**Methodology of field work visits :-** The students will be divided in groups and they will be given particular issue and they will visits specific locations, area and exposed to the problem/ challenges and need to analysis those and after visits through class room learning they need to present a planned interventions strategy to bring environmental change.

Learning will be actual visits to the various natural resources and analysing the state of degradation. All students will be divided into different groups – land, water, air, forest. They will visit and study the state of degradation of natural resources in rural as well as in urban areas and on basis of that they will do the library study and group seminars will be conducted. This will help student to learn with direct interaction with various natural resources and hands on learning.

Based on experiential learning students group presentation, seminars and workshops etc. will be conducted as self learning to develop analytical, observation, documentation skills,, field notes, visit report writings etc. This will help students to develop a global vision and scope of the subject concern i.e. NRM . Apart from this helps in learning the skills to work in groups and complimentary competence of each others in group and growth in collective group intelligence.

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## **NRM-5:-Water Resource Management and Integrated Approach to NRM.**

**4 credits: 60 hours teaching**

**Objectives of the course:** Understanding various approaches, model, strategies and works to water regenerate practices, watershed, saving and conservation for NRM from field.

**Module/ Unit 1:-(15 Lectures )** Water resources, availability of water resources, Elements of water, system, (Ref. No,33 chapter 11) ) storage structures- ground level and surface level, present practices and analysis of it, water tables, (Ref.No. 22, chapters 17-18) ) water pollution & water contamination ((Ref.No,33 chapter 17. ) , rainfall, rain water harvesting, droughts and management, (Ref.N0, 22 chapter 16,) Watershed management programmes of different agencies, models, majors taken by the various agencies, save water save life, National, international tribunes (Ref.N0.22, water reservoirs natural, man-made rivers, Ponds, , Dams, wells, bore wells, Ponds, check weir, check dam etc. (Ref.N0.22, chapters 17,18,19,20,)

Soil degradation, (Ref. N0.22 chapter 26) , soil erosion, process of erosion- sun, water, wind etc. soil erosion rate, erosion measurement Ref. No..22, chapter 3.) Soil conservation methods, CCTs, WAT, farm banding, trenches, levelling and terraces. (Ref.N0.22.chapter 13,) mulching, soil cover rating, soil conservation and methods of farming, horticulture, irrigation and soil fertility. Various soil conservation programmes of government. Ref. N0.22.chapters 11, 13,)

**Module/ Unit 3:-(15 Lectures )** Various methods , models of water conservation methods, Ridge to Valley programme,( No.22 chapters 12, 16, 27) Vasundara, IWMP, Jal-swraj, Hariyali, Jal-shivar etc., ( Government literature/ website) Procedures of planning, implementation and evaluation of watershed projects, role of various agencies like government department, NABARD, Valmi Aurangabad , NGOs, National, international tribunes, ( No..22 chapter 27)

**Module/ Unit 4:-(15 Lectures )** Plants and types, ( **No. 6, chapter 1 No.9. chapter 4,**) Plantation and relation with water conservation, soil conservation, and climate change mitigations. Afforestation and forest development, social forestry, community forestry, urban forestry and biodiversity, Forest conservation methods and NRM, Peoples participation, PPP model and soil and water conservation.( Ref. No.22, chapter, 27, Ref.No 25, chapter 12, 7, 8, )

### **References :-**

1. R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment-Teri-2016
2. H. M. Saxena- Environmental Geography (ed 3)- Rawat Publication-2017
3. Prithwish Roy- Resource Studies-New Central Book Agency-2000
4. S.C. Santra- Environmental Science-New Central Book Agency-2016
5. K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967

6. Dr. R. Suresh- Soil And Water Conservation Engineering-Standard Publishers Distributer's-2014
7. P.D. Sharma- Ecology And Environment (ed 12)- Rastogi Publication-2015
8. Mahendra Singhpal- Recent Advance In Irrigation Water Management-Kalyani Publisher-2012
9. K. Manikandan, S. Prabhu IFS- Indian Forestry (ed 4)- Jain Brothers-2015
10. Jvs Murty- Watershed Management (ed 2)- New Age International Publishers-2013
11. K.R. Chandhoke- Environmental engineering And Disaster Management- Jain Brothers-2012
12. Aulay Mackenzie, Andy S. Ball, Sonia R. Virdee- Ecology (ed 2)- Viva Books Private Limited-2002
13. T.Yellamanda Reddy, G.H. Sunkara Reddy- Principals Of Agronomy-Kalyani Publisher-2016
14. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
15. The Forest Low-Low Publisher House.
16. Y P Abbi, Shashank Jain - Handbook on Energy Audit and Environment Management - Teri-2006
17. R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment-Teri-2016
18. H. M. Saxena- Environmental Geography (ed 3)- Rawat Publication-2017
19. Prithwish Roy- Resource Studies-New Central Book Agency-2000
20. S.C. Santra- Environmental Science-New Central Book Agency-2016
21. K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967
22. Dr. R. Suresh- Soil And Water Conservation Engineering-Standard Publishers Distributer's-2014
23. P.D. Sharma- Ecology And Environment (ed 12)- Rastogi Publication-2015
24. Mahendra Singhpal- Recent Advance In Irrigation Water Management-Kalyani Publisher-2012
25. K. Manikandan, S. Prabhu IFS- Indian Forestry (ed 4)- Jain Brothers-2015
26. Jvs Murty- Watershed Management (ed 2)- New Age International Publishers-2013
27. K.R. Chandhoke- Environmental engineering And Disaster Management- Jain Brothers-2012
28. Aulay Mackenzie, Andy S. Ball, Sonia R. Virdee- Ecology (ed 2)- Viva Books Private Limited-2002
29. T.Yellamanda Reddy, G.H. Sunkara Reddy- Principals Of Agronomy-Kalyani Publisher-2016
30. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
31. The Forest Low-Low Publisher House.
32. Y P Abbi, Shashank Jain - Handbook on Energy Audit and Environment Management - Teri-2006
33. Carla W. Montgomery, Environmental Geology, McGraw hill Education ( India) Private Limited, New Delhi, 2016

**NRM-6:- Sustainable development practices of NRM and Methods of Social work practice, 4 credits: 60 hours teaching**

**Objectives of the course:** To learn various methods which help for getting along with groups and communities who are in need of critical intervention for conservation of NRM, Community organisation, formation of users groups, SHGs citizens forum etc. This helps practitioner and professional to get mass involvement in developmental works.

**Module/ Unit 1:-** (15 hours teaching ) Methods of Social work profession: Introduction to social work practice, methods of social work practices, Social group work, working with individuals and families , communities, social welfare administration , research social actions and social movements

**Reference**

*Singh D K & Bhartiya A K, Social Work- Concepts and Methods, Published by New Royal Book Company, Lucknow, 2009( pp- 1-397. )*

*Bhattacharya Sanjay, Social Work An Integrated Approach, Deep & Deep Publications Pvt. Ltd, Delhi, 2010,( p – 1-107. )*

**Module/ Unit 2:-**(15hours teaching )Methods of Social Work- : Work with Groups ( Social Group Work)Understanding Concepts of Social Group Work Concept of group and its importance of groups in human life cycle. Definition of social group work , Characteristics of social group work, History and development of social group work, Social Group Work Method , Group Work Process:-Social group work in different fields. Types of groups in social group work practice- open and closed groups; social treatment groups (Re-socialization, groups, therapeutic groups, T-groups); task oriented groups (forum, committees and work team); developmental groups ( self-help groups and support groups ) Steps in group formation ,Stages in group development :- pre-group stage, orientation stage, problem solving stage, termination stage. Role of social worker in different stages of group development

Skills of Group Worker:-For group development, for programme planning. For programme implementation

Group Process and DynamicsSteps in understanding group process , Analysis of group interaction, Leadership and its development in group process , Communication in group , Group dynamics: - group bond, sub-groups, group conflict, confrontation, apathy and group control

**Reference**

*Singh D K & Bhartiya A K, Social Work- Concepts and Methods, Published by New Royal Book Company, Lucknow, 200 (9p p- 176- 265).*

*Bhattacharya Sanjay, Social Work An Integrated Approach, Deep & Deep Publications Pvt. Ltd, Delhi, 2010, (pp – 267 – 316.)*

**Module/ Unit 3 :-**( 15 hours teaching) Community Organisation and development . Concept of community; Community analysis, from a practitioner's perspective Community Organization, history, definition, critique; Community Organization as a political process – politics of participation, role of groups, leaders; Strategies of Community Organization; reflections on field experiences. Problem analysis and community organization perspectives;

### Reference

Singh D K & Bhartiya A K, *Social Work- Concepts and Methods*, Published by New Royal Book Company, Lucknow, 2009( p- 266- 329.)

Bhattacharya Sanjay, *Social Work - An Integrated Approach*, Deep & Deep Publications Pvt. Ltd, Delhi, 2010(, p – 319 – 356. )

**Module/ Unit 4:- (15 Lectures)** Ideology and philosophy of people's participation, – Democratic process of development- ownership of people. Participatory approach – participatory planning, implementation, monitoring and evaluation. Methods of participation –social action and social movements, local contribution, shramdan, Various committees of VDC, SHG, User's group, people's involvement/ Forms of participation – resource contribution, labour contribution, time, etc.

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Bhattacharya Sanjay, *Social Work -An Integrated Approach*, Deep & Deep Publications Pvt. Ltd, Delhi, 2010, p – 425 – 430.

Viegas Philip, *Catalysts of a people's movement*, in *Social Activists and People's Movements* Ed.by Fernandes Walter, 1987, p- 154.

Jadhav Jeewendra, *Evangelization as Community Building*, Social Centre, Ahmednagar, 2006, p- 143- 147.

Verma K Manish, *Globalisation and Environment- Discourse, Policies and Practices*, Rawat Publications, New Delhi, 2015, p- 352-364.

Karl Marilee, *Women and Empowerment – Participation and decision making*, Zed Books Ltd, USA, 1995, p- 1-14.

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Alinsky Saul (1971) *Rules for Radicals: A Practice Primer for Realistic Radicals*, Vintage Books.

- 1) Battacharya, Sanjay *Social Work an Integrated Approach*, New Delhi: Deep & Deep Publications Pvt. Ltd.
- 2) Beher A & Samuel J (2006) *Social Watch in India: Citizens Report on Governance and Development*, Pune : NCAS
- 3) Berne, Eric (1966) *Principles of Group Treatment*, New York : Gmve Press
- 4) Boon Andrew & Book Andy (1999) *Advocacy*, USA : Cavendish Publications
- 5) Bradford (Ed.) (1964) *T Group Theory & Laboratory Method*, New York : John Wiley & Sons
- 6) Cartwright, Dorwin & Zandev, Alvin (1968) *Group Dynamics, Research and Theory*, London : Tavistock Publicators
- 7) Chambers Robert (2005) *Ideas for Development*, Earth Scan, London
- 8) Choudhary, Paul (1983) *Introduction to Social Work*, Delhi : Atma Ram & Sons
- 9) Corey, Geral (1977) *Groups Process and Practice*, USA: Brook/Cole Publishing Company
- 10) Cox Fred (1987), *Community organization*, Michigan : F.E. Peacock Publishers
- 11) Dhama, O. P & Bhatnager, O.P. (1994) *Education and Communication for Development* New Delhi: Oxford & IBG Pub. Co. Pvt; Ltd.
- 12) Douglas, Tom (1977) *Group Work Practice*, London : Tavistock Publication
- 13) Dunham Arthur (1962) *Community Welfare Organization: Principles and Practice*, New York : Thomas Crowell

- 14) Friedlander, W.A. (1978) Concepts and Methods in Social Work, Eaglewood Cliffs, New Delhi :Bentice Hall International Inc.
- 15) Gangrade, K.D (1971) Community Organization in India, Mumbai : popular Prakashan.
- 16) Garland, J.A. Group Work Reaching out, People places and Power
- 17) Goel, S L & Kumar, Ram (2001) Disaster Management, New Delhi : Deep and Deep
- 18) Gravin, Charles D (1981) Contemporary Group Work, New Jersey : Prentice-Hard-ING
- 19) Gravin, Charles D., Lorriae M. Gulier (Ed.) (2007) A Hand Book of Social Work with Groups, Rawat Publication
- 20) Heap, Ken 1(1985) The Practices of Social Work with Groups- Systematic Approach, UK : George Allen & Unwin
- 21) IIED (1998) PLA Notes 31: Participatory Monitoring and Evaluation, International Institute of Education and Development
- 22) Indu Prakash (1994) Disaster Management: Societal Vulnerability to Natural Calamities, New Delhi : Rashtra Prahari Prakashan
- 23) Jha, Jainendra Kumar : Encyclopaedia of Social Work, New Delhi : Anmol Publications Pvt. Ltd.
- 24) Khinduka, S. K & Coughlin, Bernard (1965) Social Work in India, New Delhi : Kitab Mahal.
- 25) Milson Fred (1973) An Introduction to Community Work, Rutledge & Kegan Paul, New Delhi : London OXFORD & IBH Publishing Co. Pvt. Ltd,
- 26) NCAS (2000) Fearless Minds: Rights Based Approach to Organizing and Advocacy, Pune : National Centre for Advocacy
- 27) PRIA, (1995) Participatory Evaluation : Issues and Concerns, New Delhi : PRIA, Publications
- 28) Rao, MSA (1979) Social Movements in India, New Delhi : Vol. 1 and 2, Manohar,
- 29) Ross, Murray & Lappin, Ben (1967) Community Organization; Theory, Principles, and Practice, New York : Harper & Row.
- 30) Rothman Jack, Erlich John & Tropman John (1987) Strategies of Community Intervention Strategies for Community Organization, Micro Practice, Michigan: , F.E. Peacock Publishers.
- 31) Sanoff, Henry (2000) Community Participation Methods in Design and Planning, London : John Wiley and Sons.
- 32) Shaw, Marllin E. (2nd Ed.) Group Dynamics, New Delhi : Tata – McGraw Hill Publishing
- 33) Shrivasta, S. K (1988) Social Movements for development, Allahabad: Chugh Publications.
- 34) Siddique, H.Y. (1984) Social Work and Social Action, New Delhi: Harnam Publications.
- 35) Somesh Kumar (2002) Methods for Community Participation: A complete guide for practitioners, New Delhi: Sage Publication (Vistaar).
- 36) UNDP (2001) The Monitoring and Evaluation Framework, UNDP, Toronto : , University of Toronto Press.
- 37) Vohra Gautam (1990) Altering structures: Innovative Experiments at the grassroots, Mumbai : Tata Institute of Social Sciences.
- 38) Warren Roland (1970) Studying Your Community, New York: A Free Press.
- 39) Wilson, Gertrude & Ryland, Gladys (1949) Social Group Work Practice, Houghton Mifflin Company

### **Recommended Journals**

- Community Development Journal: An Alternative Forum, UK, Oxford University Press.
  - Indian Journal of Social Work, Mumbai: Tata Institute of Social Sciences.
  - Social Action, A Quarterly Review of Social Trends and Social Action Trust, Delhi Seminar, New Delhi.
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**NRM-7:-Research Methodology (Qualitative, Quantitative and Participatory Research Methods). 4 credits: 60 hours teaching**

**Objectives of the course** To develop competency in doing research as supportive methods for enhancing the quality of interventions and finding the place for further improvements through scientific research techniques. This course will able to develop understanding of three research methodologies like qualitative, quantitative and participatory research.

**Module/ Unit 1**(15 hours) The nature of quantitative research methodology: Characteristics process, assumptions, and values. The role and scope of quantitative research methods in terms of decision-making and knowledge development in the field of social work; identifying linkages between research and practice; role of research in policy formation, and programme planning, implementation, and evaluation.

**Reference**

*Bryman Alan, Social Research Methods, Oxford University Press, 2012, (pp-3-154.)*

*Kumar Ranjit, Research Methodology, A step – by- step guide for beginners, SAGE publications India Pvt. Ltd. 2015. (P-6)*

*Singh D K &Bhartiya A K, Social Work- Concepts and Methods, Published by New Royal Book Company, Lucknow, 2009.(pp-359-)*

**Module/ Unit 2:-**(15 hours)

The process of Quantitative Research:

- (1). Conceptualising quantitative studies; problem identification and formulation; objectives, concepts, variables, hypotheses, and assumptions.
- (2). Designing quantitative studies: types of research designs, and their scope; identification of sources of data (primary and secondary).
- (3). Methods and tools of data collection: observation, interviews, schedules, and questionnaires; and community-based participatory methods and techniques.
- (4). Selection of sample; random and non-random sampling methods; determination of sample size.
- (5). Data processing techniques: structuring and sorting data; tabular and graphic presentation of data; development of databases.
- (6). Analysis of data: levels of measurement (nominal, ordinal, interval, and ratio); descriptive statistics (percentages, measures of central tendencies – mean, median, and mode); measures of dispersion (range, mean deviation, standard deviation); hypothesis testing (Chi-square test and t test); interpretation of findings.
- (7). Reporting the results of quantitative research, and identifying their linkages with the development of Social Work knowledge. Planning and preparing proposals for quantitative studies. Application of quantitative research studies to Social Work practice.

**Reference**

*Bryman Alan, Social Research Methods, Oxford University Press, 2012(, pp-157- 370)*

*Neuman Lawrence W. Social Research Methods,Qualitative and Quantitative Approaches, 2001,( pp-106-172.)*

### **Module/ Unit 3:-( 15 hours)**

#### **The Process of Qualitative Research:**

- (1). Conceptualizing qualitative studies: identifying the focus of the study, the areas of study and lines of inquiry; (2). Designing qualitative studies: developing a research strategy, theoretical sampling, specifying the role of the researched and the researcher, and insider/outsider perspectives
- (3). Methods of data collection: participant observation, life histories, in-depth/unstructured interviews, group interviews and focus group discussions, and community-based participatory methods and techniques
- (4). Data processing and analysis: preparing narrative data texts, developing coding categories, use of matrices, and integrating findings to develop field-based conceptualizations
- (5). Writing-up qualitative studies: insider/outsider perspectives, interactive process between the researcher and the researched, self-reflectivity, and working towards the development of field-based theory. Planning and preparing proposals for qualitative studies. Principles of Triangulation aimed at combining the use of qualitative methods with quantitative methods to expand the scope of analysis in relation to a particular research study. Method of Assessment: Assignments and examinations.

#### **Reference**

- Bryman Alan, Social Research Methods, Oxford University Press, 2012,( pp-379-587).*
- Bryman Alan, Social Research Methods, Oxford University Press, 2012, (pp-692-706).*
- Neuman Lawrence W. Social Research Methods, Qualitative and Quantitative Approaches, 2001,( pp-327- 439. )*
- Kothari C R &GargGauravResearch Methodology – Methods and Techniques, New Age International Publishers, New Delhi – 2014,(pp-66)*

### **Module/ Unit 4 :-( 15Lectures)**

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Participatory Research methods-, PRA–Definition, logic of participation and the methodology of participatory rural appraisal,applications of PRA, Time line, Wealth Ranking, Historical Diagram, Institutional Mapping, Group Dynamics, Focus Group Discussion, Social Network Analysis, Venn Diagram, Matrix Scoring, Transect walk, Micro level planning for Rural Development, Participatory rural appraisal technique, conducting Rapid Rural Appraisal, etc.

- Chambers Robert, World Development Vol. 22, 1994, Pergamon , UK,( pp-953 -969),*
- Book Ed. by Amitava Mukherjee, Participatory Rural Appraisal- Methods and Application in Rural planning, Vikas Publishing House Pvt. Ltd. Delhi, 1995,( pp- 1- 77).*
- Mukherjee Neela, Participatory Rural Appraisal, Concept Publishing Company, 2003,( pp- 19 – 39, 88)*
- Chandra Ganesh, PRA, Issues and Tools for Social Science Research inland Fisheries. Central Inland Fisheries Research Institute, Bulletin 163.(pp- 286-302. )*
- Book Ed. by Amitava Mukherjee, Participatory Rural Appraisal- Methods and Application in Rural planning, Vikas Publishing House Pvt. Ltd. Delhi, 1995, (pp- 1- 77).*
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*Mukherjee Neela, Participatory Rural Appraisal, Concept Publishing Company, 2003, (pp- 19 – 39, 88)*

*Chandra Ganesh, PRA, Issues and Tools for Social Science Research inland Fisheries. Central Inland Fisheries Research Institute, Bulletin 163. (Pp- 286-302. )*

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- Ahuja, Ram (2001) Research Methods, Jaipur :Rawat Publications.
  - Alston, M. Bocoles, W. (Indian Edition 2003) Research for Social Workers-An Introduction to Methods, Jaipur :Rawat Publications.
  - Baker, Therese L. (1994) Doing Social Research, Singapore : McGraw Hill
  - Black, James A & Champion, Dean J. (1976) Methods and Issues in Social Research, New York : John Wiley.
  - Goode, W.J., Hatt, P.K. (1981) Methods in Social Research, Singapore: McGraw Hill
  - Grinell, Richard M. (Jr.) (1988) Social Work Research and Evaluation, Illinois F. E. Peacock Pub. Inc. . Jacob, K. K. (1965) Methods & Fields of Social Work in India, Bombay: Asia Publishing.
  - Kothari, C. R. (2004 2nd edition reprint) Research Methodology: Methods & Techniques, New Delhi, New Age International.
  - Krishnaswamy, O. R. (1993) Methodology for Research in Social Science, Himalaya, Bombay.
  - Laldas, D. K. (2000) Practice of Social Research, Jaipur: Rawat Publications.
  - Mikkelsen, Britha (2005) Methods for Development Work and Research- A New Guide for Practitioners, New Delhi : Sage.
  - Ramchandran, P. (1968) Social Work Research and Statistics, Bombay : Allied Publishers.
  - Rubin, Allen &Babbie Earl (4th Ed. 2001) Research Methods for Social Work, USA : Wadsworth, West, Brooks/Cole and Schirmer.
  - Sarantakos, Sotirios (2005) Social Research, New York : Palgrave Macmillan.
  - Sharma, B. A. V., Prasad, R. D. &Satyanarayana, C. (2002) Research Methods in Social Sciences, New Delhi: S terling.
  - Sharma, K. R. (2002) Research Methodology, Jaipur : National Publishing House.
  - Wilkinson, T.S. &Bhandarkar, P. L. (1984) Methodology and Techniques of Social Research, Bombay: Himalaya.
  - Young, Pauline (Asian students edition 1960) Scientific Social Surveys and Research, Japan: Asia Publishing House.
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**NRM-8:- Field work practicum and Placement at Watershed & Soil conservation projects. 4 credits: 60 hours teaching**

**Programme villages of Social Centre, Nanadanvan, Govt, Watershed project villages and other trusts projects. 4 credits: 60 hours of practicum**

**Objectives of the course:** Visiting different watershed programmes and learning impacts of the projects and application of classroom learning to the community/ village reality

**Module/ Unit 1, 2,3,4-** are field work practicum and getting first-hand experience of watershed programmes and implementations strategies of soil and water conservation and of community partnership and other direct and indirect stakeholders of the process. Students will be placed in the villages for direct learning experiencing. Social Centre, Nanadanvan trust has many projects running on watershed group of three/four will be placed for field work per week to learn hands on training and skills for watershed projects management.

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**NRM-9:- Climate Change Mitigation - Laws, Policies, programmes and Governance. 4 credits: 60 hours teaching**

**Objectives of the course:** Understanding concept of Climate Change Mitigation, factors responding to climate change. Understanding linkage, Present challenges of Climate Change, Knowing of Laws, Acts and Polices influence on Climate Change Mitigation, Human Rights Aspects and Climate Change mitigation.

**Module/ Unit 1:-(15 Lectures)**Conceptual understanding of Climate Change, Factors responsible for Climate Change, Effects of Climate Change, Threats of Climate Change, Impact of Politics on Environment, Environmental Ethics, Steps to impact adverse impact of Climate Change. Greenhouse gases and Global Climate Changes, Global Warming, Consequences of Ozone Depletion, Acid Rain,increase in population, chemical use etc.Impacts of Climate Change on human life and present challenges faced by universe.

### **References**

*AbhijitMitra and Tanmay Ray Chaudhuri, Basics of Environmental Science, New Central Book Agency Pvt. Ltd, Kolkata, 2017, pp- 86-95; 166-168.*

*Santra S C Environmental Science, New Central Book Agency, Kolkata, 2016, (pp- 337-372).*

*Singh Savindra, Climatology, Pravalika Publications, Allahabad, 2016,(p p- 339-410).*

*FarhanaYamin And Joanna Depledge- The International Climate Change Regime a Guide-Cambridge University Press- UK, 2004, (pP- 20-26).*

*Shankar IAS Academy- Environment (ed. 4)-2016,( Pp-195-225)*

*Sharma P D Ecology and Environment, Rastogi Publications, New Delhi, 2015,( pp- 431-487).*

*SankarAjit R.N- Environmental Management-Oxford University Press-2015, (pp- 369-403).*

**Module/ Unit 2 :- (15 Lectures)** Emerging Policies, programmes, Steps taken up by various government agencies for Climate Change mitigations & governance. Environmental Laws, Components, Rules and Regulations. UN-policy, International and National collaborations and partnerships in mitigating Climate Change, Local self-government role to respond to Climate Change.

**References**

- Santra S C Environmental Science, New Central Book Agency, Kolkata, 2016, p- 801- 1071; 1179-1212.*  
*Mallick M.R Environment and Pollution Laws, Professional Book Publishers, Delhi, 2017, p 3-388.*  
*Y P Abbi, Shashank Jain - Handbook on Energy Audit and Environment Management - Teri-2006, 264-275.*  
*Dr. Sharma J P, Environmental Studies, University Science press, Delhi, 2017, p- 3-12.*  
*Farhana Yamin And Joanna Depledge- The International Climate Change Regime a Guide-Cambridge University Press- UK, 2004, P- 56-58; 74-135; 534-541.*  
*Shankar IAS Academy- Environment (ed. 4)-2016, P- 227-259.*

**Module/ Unit 3:-(15 Lectures)** Various strategies and approaches towards Climate Change mitigation and collectivism, Environmental education – relationship between human response and environment, Environment issues and Health effects, Duties of Citizens groups in addressing ill- effects of Climate Change, Human Rights aspects, NGOs and their role in responding to Climate Change, CSR and company Agencies strategies in mitigating Climate Change, Citizens role in the solution and prevention of Environmental problems.

**References**

- Santra S C Environmental Science, New Central Book Agency, Kolkata, 2016, pp-1393 -1483.*  
*Y P Abbi, Shashank Jain - Handbook on Energy Audit and Environment Management - Teri-2006, pp264-275.*  
*Dr. Sharma J P, Environmental Studies, University Science press, Delhi, 2017, pp- 7-12.*  
*Farhana Yamin And Joanna Depledge- The International Climate Change Regime a Guide-Cambridge University Press-2004, pP- 48-56.*  
*Shankar IAS Academy- Environment (ed. 4)-2016, pp- 316-326.*

**Module/ Unit 4:-(15 Lectures)** –Group seminar presentation on various practical issues of Climate Change and required mitigation strategies of it, experimental learning experiences by students- learning by doing and sharing of learning with the other students.

**References**

- Santra S C Environmental Science, New Central Book Agency, Kolkata, 2016, p p-801- 1172.*

**Recommended Readings: Various Legislations and acts and procedures govern by government Documents of government, International Treaties/Conventions/Protocols**

1. Fundamental Rights and Duties, Article 48A, 51A (g) and 58A
2. The Water (Prevention and Control of Pollution) Act – 1974
3. The Air (Prevention and Control of Pollution) Act – 1981

4. Indian Forests Act (Revised) 1982. The Environment (Protection) Act, 1986
5. The Indian Wildlife (Protection) Act – 1972 amended 1991
6. The Public liability Insurance Act, 1991
7. The National Environmental Tribunal Act, 1995
8. The Biological Diversity Act, 2002
9. National Environmental Policy
10. National Forest Policy
11. National Water Policy
12. Policies on Renewable and Non- renewable energy resources.
13. Ute Collier and RagnarElofstedt- Case In Climate Change Policy -Earth Scan Publication-1997
14. Thomas D. Potter Bradley R.Colman- Handbook of Whether Climate And Water-Wiley Interscience publication-1929
15. R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment -Teri -2016
16. FarhanaYamin And Joanna Depledge- The International Climate Change Regime a Guide-Cambridge University Press-2004
17. H. M. Saxena- Environmental Geography (ed 3) -Rawat Publication-2017
18. RemiGenevey, RajendraK.Pachauri Laurence Tubiana- Reducing Inequalities A Sustainable Development Challenge-Teri
19. John Baldock, LaviniaMitton, Nick Manning, Sarah Vickerstaff- Social Policy-Oxford University Press-2012
20. Archana Sharma- Environment-Face The Challenge Academy-2016
21. S.C. Santra- Environmental Science-New Central Book Agency-2016
22. K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967
23. S.R. Maheshwari- Indian Administration (ed 6)-Orient Blackswan-1968
24. Shankar IAS Academy- Environment (ed. 4)-2016
25. Dr. Suresh K. Dhameja- Environmental Studies-S.K &Kataria& Sons-2012
26. R. Rajagopalan- Environmental Studies From Crisis To Cure (ed 3)-Oxford University Press-2016
27. K.R. Chandhoke- Environmental engineering And Disaster Management-Jain Brothers-2012
28. Savindrasingh, Jeetendrasingh- Disaster Management-Pravalika Publication Allahabad-2016
29. Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015
30. Savindrasingh- Climatology-Pravalika Publication Allahabad-2016
31. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
32. The Forest Low-Low Publisher House.
33. Y P Abbi, Shashank Jain - Handbook on Energy Audit and Environment Management - Teri-2006

**NRM-10:-Geographical Information System(GIS), Remote sensing, Environment Impact Analysis EIA & role of technologies.**

**4 credits: 60 hours teaching**

**Objectives of the course:**

Wise use of various technologies available for quick assessment and planning of interventions for NRM.

**Module/ Unit 1:- (15 Lectures)** Role of Technologies, GIS, Remote Sensing- Concept, scope, principles etc. Types of remote sensing, Satellite Remote Sensing, Theory and practical applications, Photographic imaging, Digital imaging, IRS, Microwave Remote Sensing: Radar. GIS and related terms, digital data, data integration, analysis and presentation. Functions of GIS

**Reference-**

*Basudeb Bhatta- Remote Sensing and GIS ( ed2)- Oxford University Press 2011(Ch -1, 2,4,5,10)*

**Module/ Unit 2:- (15 Lectures)** GIS for Environmental planning land, water, soil, waste management technologies, Process of GIS- Data sources, Data capture , conventional Analogue, process, How to use Remote sensing database satellite pictures, maps data reading and analysis for planning of NRM purposes. Applications of GIS and Remote Sensing –to land cover and land use, agriculture, forestry, geology. Planning Implementation and Management of GIS,

**Reference-**

*Basudeb Bhatta- Remote Sensing and GIS( ed2)- Oxford University Press 2011(Ch -13,14,17)*

**Module/ Unit 3:-**

**Module/ Unit 3:- (15 Lectures)** Environmental Ethics(Aanthropo centism & Eco centism and Environmental management, Management of Environment – approaches and issues- Equitable use of resources, sustainable business, green governance, Concept of Environment Impact Assessment (EIA), use of Projects planning and implementations, monitoring and evaluation methods for success of the projects and relevance of EIA with special reference with natural resources management, Conducting EIA, Elements of ELA.

**Reference-**

*H. M. Saxena- Environmental Geography (ed 3) - Rawat Publication-2017( Ch-13pp186-200)*

*H. M. Saxena- Environmental Geography (ed 3) - Rawat Publication-2017( Ch-14pp202-209)*

*Archana Sharma- Environment-Face The Challenge Academy-2016( Ch.VII,pp72-83)*

*Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015( Ch9pp 369-403)*

*Basudeb Bhatta- Remote Sensing and GIS( ed2)- Oxford University Press 2011(Ch -19, 18, )*

**Module/ Unit 4:- (15 Lectures)** Lab experiences and training and actually knowing the process of GIS and Remote Sensing and learning basic skills for GIS AND EIA. (No.2, chapters 1-8, No.10, chapters, 1-11)

Various guests who practiced these and their lectures will be invited for sharing and demonstration, GIS lab experience.

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**Reference-**

1. Kang Tsung Chang- Introduction To Geographic Information System (ed 4)- M.C Graw Hill Education-2017
  2. Lan Haywood, Sarah Corenlius, Steve Carver- An Introduction To Geographical Information System (ed 3)- Pearson-2011
  3. Thomas D. Potter Bradley R.Colman- Handbook of Whether Climate And Water-Wiley Interscience publication-1929
  4. Remi Genevey, Rajendra K.Pachauri Laurence Tubiana- Reducing Inequalities A Sustainable Development Challenge-Teri.
  5. S.C. Santra- Environmental Science-New Central Book Agency-2016
  6. Dr. R. Suresh- Soil And Water Conservation Engineering-Standard Publishers Distributer's-2014
  7. Shankar IAS Academy- Environment (ed 4)- Shankar IAS Academy-2016
  8. P.D. Sharma- Ecology And Environment (ed 12)- Rastogi Publication-2015
  9. Ritu Paliwal, Leena Srivastava- Policy Intervention Analysis ,Environmental impact Assessment - Teri-2014
  10. A.M. /chandra , s.K. Ghosh remote sensing and geographic information system, Narosa publishing house, New Delhi, 2016
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**NRM-11:- Research Project: Part I . 4 credits: 60 hours teaching**

**Objectives of the course:** Develop a research competency among the students to carry a research as a supporting methods of professional practice and learning the skills required for the same. Actual practice of doing a research and developing an aptitude for conducting a scientific study. To build competency students in second year must select one researchable concern or a problems to study. Conduct a study on basis of theoretical inputs learned in the research methodology course in the first year. And at the end of second year in forth semester they need to present a dissertation. It will be evaluated for grading the students. Each student will be supervised by the research supervisor and guidance will be provided.

**Module/ Unit 1:- Selection of Research concern/ Problem for conducting research work, Research proposal making**

**Module/ Unit 2:- Literature review, objectives,**

**Module/ Unit 3:- Data collection,**

**Module/ Unit 4:-, Data organisation & Data processing**

**References:- as per the course NRM 7**

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**NRM-12:-Filed work practicum in areas of Climate Change Mitigation Strategies and NRM.**

**4 credits: 60 hours field practicum**

**Objectives of the course:** Application of knowledge learned on climate change mitigations and strategies in classroom and their application to concern issues of communities, villages, towns and cities.

**Module/ Unit 1,2,3,4**

Actual Fieldwork practice- placement with concern NGOs, Government institutions, private institutions those who are working towards climate change mitigations and environmental preservation, promotion of renewable energies, natural, organic and Parma-culture farming practices, etc.

**Recommended Readings**

Various published reports, reviewing research articles in major journals, GOI ministries evaluation reports, UN organisation reports. Journals, Down to Earth etc.

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**NRM-13: Disaster Management and Natural Resource Management , 4 Credits – (3 Credits of Class room teaching, 1 Credits field exposures trip)**

**Objectives of the course:** Awareness and understanding of careless actions and commercialization of NRM has been causing disasters to ecology and human settlements and further marginalization and understanding ecosystem equilibrium and disequilibrium green house effects, floods, droughts, acid rain and global warming etc.

**Module/ Unit 1:-(15 Lectures)** Understanding nature of disasters, Concepts and types of disaster - man made, natural disasters. Disaster related volcanic disasters, Earthquake, Tsunami, Landslide, Floods, Tropical Cyclone, Global warming, Droughts etc. Epidemic and health disasters e.g. Dengue, AIDs, etc, Industrial disaster e.g. Bhopal gas explosion, Railway accidents, aircraft crashes etc.

**References-**

*Daniel B. Botkin, Edward A. Keller- Environmental Science (Ed 6)- Wiley Student Edition-2009 Ch-16, pp.316-344)*

*S.C. Santra- Environmental Science-New Central Book Agency-2016( Ch30, pp 629-646)*

*Savindra Singh- Environmental Geography- Pravalika Publication Allahabad-2016(Ch.17).*

*R. Rajagopalan- Environmental Studies From Crisis To Cure (ed 3)Oxford University Press-2016( Ch.18pp 266-277)*

*K.R. Chandhoke- Environmental engineering And Disasters Management-Jain Brothers-2012( Ch.18,19,20,21,22,23,24,25,26)*

**Module/ Unit 2:-(15 Lectures)** Disaster management meaning and concept, International, National, state and district level management, Strategies and preventive measures to control the disasters situations, Various roles and duties of various stakeholders in disaster relief management. Policies, laws, precautionary measures, planning & budgeting, monitoring and evaluation of disaster management works, safety measures, awareness, education, training .

**References-**

*S.C. Santra- Environmental Science-New Central Book Agency-2016(Ch.30.8pp 638-642,)*

*Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016 (Ch.17 331-355,.Ch. 18 pp 356-400,Ch.19pp 402-436)*

*R. Rajagopalan- Environmental Studies From Crisis To Cure (ed 3)Oxford University Press-2016( Ch.18- pp278-284)*

**Module/ Unit 3:-(15 Lectures )** Impacts of Disaster Physical, Economic ,Spatial, Psycho-social, Problems in coping (in the immediate after) and reintegration to normal life, disaster trauma and counselling individual, group and communities etc. Relief and rehabilitation works after disaster occurrence. Resources mobilisation at local, national and international level during the relief work, data management and MIS procedures etc.

**References-**

*Ajith, Sankar R.N- Environmental Management-Oxford University Press-2015( Ch.3,pp146-155)*

*H. M. Saxena-Rawat Publication- Environmental Geography (ed 3)- 2017( Ch.10,pp133-156)*

**Module/ Unit 4:-(15 Lectures )** Intervening Agencies - Government organization- state government, district level management - Disaster Management ACT 2005, administration, Insurance companies and compensation, health relief work, housing and shelter, voluntary organizations, NGOs, local groups, citizen participation- volunteers, social workers, Civil society, citizens partnership in disaster management issues in coordination and partnership.

**References-**

*K.R. Chandhoke- Environmental engineering And Disasters Management-Jain Brothers-2012( 28, Ch 28-pp455-500)*

*Shamna Hussian, Shailesh Shukla- Biodiversity, Environment & Disaster Management-Unique Publishers-2015( section B-Ch1-9,pp85-290)*

*Colonel( Retd.) P.P.Marathe- Concept & Practices In Disaster Management, - Diamond Publications,2007,Pune30 all chapters*

**References:-**

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1. H. M. Saxena- Environmental Geography (ed 3)- Rawat Publication-2017
  2. S.C. Santra- Environmental Science-New Central Book Agency-2016
  3. Shamna Hussian, Shailesh Shukla- Biodiversity, Environment & Disaster Management-Unique Publishers-2015
  4. K.R. Chandhoke- Environmental engineering And Disasters Management-Jain Brothers-2012
  5. Savindra singh, Jeetendra singh- Disaster Management- Pravalika Publication Allahabad-2014
  6. A. Haldar- Geography Of Disaster Management -Nirali Prakashan-2014
  7. Dr. Probir Kumar Bose, Dr. Pradipta, Kumar Bose- **Averment** Ecology & Sustainable Management-Everest Publication House-2007
  8. Savindra Singh- Environmental Geography-Pravalika Publication Allahabad-2016
  9. R. Rajagopalan- Environmental Studies From Crisis To Cure (ed 3)Oxford University Press-2016
  10. H. M. Saxena-Rawat Publication- Environmental Geography (ed 3)- 2017
  11. Colonel( Retd.)P.P.Marathe- Concept & Practices In Disaster Management, - Diamond Publications,2007,Pune30
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## **NRM-14) Accounting and Finance:-**

**Objectives of the work:** - Basic accounting knowledge, various tools and mandatory records of accounts to be maintained by professional and in projects managements.

### **Module 1. Basics of Accounting 20 hours**

Cash and Credit Transactions, Incomes, expenses, assets, liabilities and capital – preparation of final accounts – profit and loss account/income and expenditure account and balance sheet – maintenance of records and documentation of records

#### **Reference**

1. *Financial Accounting – S N Maheshwari Ch. 1- 4*
2. *Financial Accounting - Dr. Kaustubh Arivnd Ch. 1 – 7*

### **Module2-ComputerizedAccounting**

**15hours**

#### **(Tally)**

Company creation, ledger creation, voucher entry, viewing reports, editing and printing reports.

Preparation of statements and accounts in MS Excell

#### **Reference**

1. *Tally Financial Accounting Programme Vol. I*
2. *M S Office Excel Inside Out – Mark Dodge and Craig Stinson part 1 to 3*

### **Module 3 – Financial Management 10 hours**

Preparation of Budgets - Cash management and credit management- working capital management and fixed asset management.

#### **Reference**

- Cost Accounting and Financial Management – M Y Khan & P K Jain part 5*

### **Module 4 – Sources of Finance 5 hours**

Different types of capital and management of loans and advances

#### **Reference**

1. *Financial Management - M Y Khan & P K Jain*

### **Module 5 – Investment Management 10 hours**

Investment avenues for Trusts and Associations – Investment strategies and techniques – Auditing and taxation of incomes and expenses

**Reference**

1. *Investment Management – Preeti Singh Ch. 1, 4, 9*
  2. *Investment Analysis and Portfolio Management - Prasanna Chandra Ch. 1 to 3*
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**NRM-15) Research Projects work Part II, continuation of the course NRM 11 of III semester. 4 credits: 60 hours**

**Objectives of the course:** Develop research project writing competency and submission of dissertation

**Module/ Unit 1:-** Data analysis

**Module/ Unit 2 &3 :** Writing chapters of dissertation

**Module/ Unit 4:** Completion research report and presentation and submission of the M.A. Research dissertation.

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**NRM-16:-Field Practicum of IV semester. 4 credits: 60 hours of independent issues based field work practicum**

**Objectives of the course:** In this field work independently working on issues concerns of Natural Resource Management at community/ society/ward/village level. By this time students will be well verse and verge of taking degree and will be a trained professional to contribute to the field of his studies. Hence to test and build independent capacity among the students to take up responsibility on any of issues for direct interventions and try to bring positive change and learn about one-self to contribute meaningfully for a cause.

**Module/ Units 1, 2,3,4- Action research, interventions to any of the problem related to environment**

Field work of 4 credits / practically / learning by doing achievement is evaluated by the results, impacts , change brought through

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**Optional courses for NRM course total 7 courses :- 4 credits : 60 hours teaching**

**Optional 1- NRM- NGO Management: - 4 credits: 60 hours teaching**

**Objectives of the course:**

To know Non Government Organisation (NGOs) and their role in development, welfare programmes. Understanding organisational functions, role, rules and legal status. NGOs and their contribution in development.

**Module/ Unit 1:-(15 Lectures )** What is NGO, ( No. 1, introduction, chapter 1, pgs. 3,its formation (Ref.No. 19-22 Ref.No2. pages 9-22, 27-40) need and their works (9-22 **No. 2, pgs. 5-6**) Agencies of Change , voluntarism, voluntary organization, CBOs, Not for profit Organization etc.( Ref. No. 1,pages, 84-151) role and contributions in NRM. Pressure groups, Citizens forum, Rotary clubs, lion clubs,

**Module/ Unit 2:-(15 Lectures ) )** Legal status of the organizations, Registration authorities-Trusts, Society, Non for profit company, procedures, funding resources etc. NGOs-GOs relationship- partnership ,strength and weakness of NGOs, Organizational structure of NGOs.

**Module/ Unit3:-(15 Lectures )** Management of NGOs, (Ref.No. 1, pgs.59-80) Voluntary organizations administration, Board of trustees, staff management, financial management, project management (Ref.N0.1, pgs 259-290) ( Bombay Trust Act 1950) etc.

**Module/ Unit 4:-(15 Lectures )** Case studies of some of the best practiced NGOs and scope of their works and learning from them, Corporate Social Responsibility opportunity for NGOs and NRM promotion projects.

(Guest lecturers, Practitioners from NGOs to make case studies presentations, government official lectures etc, study tours to some of the NGOs,)

**References:**

1. Anita Abraham, formation and management of NGOs non government organization, fourth edition, Universal law publishing co. New Delhi, 2015
  2. Virendra k Pamecha, How to start promote and manage an NGO Non Government Organization)
-

## Optional -2-

### **Biodiversity and NRM:-**

Biodiversity is current awareness for human society. In past few years various climate related disasters, universal imbalance, new disease are being witnessed. Hence alert human beings started looking back and finding out the causes for the same and it is understood that increased materialism, industrialization, urbanization, machinations and exploitation of natural resources etc. has roots for the facing present challenges before human society. And the most intelligent species in the universe we- human beings have responsibility towards creating safe and secured life for living and non living in the universe. To do so we need to know how and what contains in the universe and everything is dependent on each other and without having each once existence the universe will not be existing due to imbalance created. Biodiversity needs to be understood in maintaining the universal welfare of each and every species those are existing and part of it. Hence this course makes students/ learners aware about responsibility towards universe and required proactive actions in preserving and conservation of biodiversity. Various efforts, legal frameworks, policies and actions towards maintaining biodiversity will be covered in the course. This also will link with national resources management aspects.

**Objectives of the course:** To understand concept of biodiversity and its importance to human society. Universal acceptance towards promoting and preserving biodiversity and proactive human response toward the cause. This course will build knowledge and right perspective towards biodiversity issues among the learners of the subject.

**Module/ Unit 1:-(15 Lectures )** Ecology and Evolutionary Biology, plants, animals, flora and fauna, food chain, human race, diversity in each species, conservation of biodiversity, Various factors those influence -economic, industrial, technologies, human, geographical, culture, governance, globalization, green effects, climate change etc.

### **Reference**

*Dr. Probir Kumar Bose and Dr. Pradipta Kumar Bose, Environment, Ecology and Sustainable Management, Everest Publishing House, 2007, p- 1-25; 492-496.*

*SankarAjith R N, Environmental Management, Oxford University Press, 2015, p-25 – 36.*

*Myers Norman and Spoolman E. Scott, Environmental issues and Solutions, Yolanda Cossio, Canada, 2014, p- 84-103.*

*Singh Savindra, Environmental Geography, Pravalika Publications, Allahabad, 2016, p- 229-254; 260-281; 557-581.*

*S.C. Santra- Environmental Science-New Central Book Agency, West Bengal-2016, p-105-112; 337-372.*

*Shankar IAS Academy- Environment (ed 4)-2016, p- 113-152.*

*Dr..J.P. Sharma- Environmental Studies (For Ungraduate Courses(ed 4))- University Science Press-2017, 132-154.*

*Botkin Daniel B. and Keller Edward A. Environmental Science, Wiley India Pvt. Ltd.New Delhi, 2009, p- 118-134.*

*Sharma Archana, Environment, Published by Face the Challenge Academy, New Delhi, 2016, p- 227-231.*

**Module/ Unit 2:-(15 Lectures )** Perspectives and approaches toward biodiversity, International, national, state and local level systems, role and responsibility of various stakeholders

### Reference

- SankarAjith R N, Environmental Management, Oxford University Press, 2015, p-329-368.*  
*Sharma P D, Ecology and Environment, University of Delhi, Delhi, 2015, p- 560-604.*  
*Singh Savindra, Environmental Geography, Pravalika Publications, Allahabad, 2016, p- 562-570.*  
*S.C. Santra- Environmental Science-New Central Book Agency, West Bengal-2016, p-113-124.*  
*Shankar IAS Academy- Environment (ed 4)-2016, p- 153-179.*  
*Dr.J.P. Sharma- Environmental Studies (For Undergraduate Courses(Ed 4))- University Science Press-2017, 155-162.*  
*Sharma Archana, Environment, Published by Face the Challenge Academy, New Delhi, 2016, p- 232-251.*

**Module/ Unit 3:-(15 Lectures )** Global policies and practices , laws and regulation to use nature prudently, reservation and restriction on some human action and using resources , various commissions reports, patents ,indigenous people rights etc.

### Reference

- Sharma P D, Ecology and Environment, University of Delhi, Delhi, 2015, p- 604- 618.*  
*S.C. Santra- Environmental Science-New Central Book Agency, West Bengal-2016, p-122 – 142; 1413 -1483.*  
*Shankar IAS Academy- Environment (ed 4)-2016, p- 180-192.*  
*Dr..J.P. Sharma- Environmental Studies (For Ungraduate Courses(ed 4))- University Science Press-2017, 162-166.*  
*MitraAbhijit and Tanmay Ray Chaudhuri, Basics of Environmental Science, New Central Book Agency, Kolkata, 2017, p- 48-58.*  
*Sharma Archana, Environment, Published by Face the Challenge Academy, New Delhi, 2016, p- 252-270.*

**Module/ Unit 4:-(15 seminars and visits )** Applied biodiversity, projects, actions taken by various stakeholders , application , implementation of various projects in field of biodiversity – local, national and global level.

### References:-

- 1) India passed the [Biological Diversity Act](#) in 2002 for the conservation of biological diversity in India. The Act also provides mechanisms for equitable sharing of benefits from the use of traditional biological resources and knowledge.
- 2) R. N. Bhargava, Keith Olson, Lynn Tiede- Ecology And Environment-Teri-2016
- 3) Lisa M. Benton , John Rennie Short- Environmental Discourses And Practice-Blackwell Publishers-2000
- 4) AsheemSrivastav, Suvirasrivastav- Ecological Meltdown(ed)2-Teri-2015

- 5) RemiGenevey, RajendraK.Pachauri Laurence Tubiana- Reducing Inequalities A Sustainable Development Challenge-Teri.
  - 6) Prithwish Roy- Resource Studies-New Central Book Agency-2000
  - 7) Dr. Punam Sharma Dr. Rashmi Gupta- Environmental Science Paper 1 & 2-Arihant Publication
  - 8) S.C. Santra- Environmental Science-New Central Book Agency-2016
  - 9) B.K. Nagla- Indian Sociology Thought (ed 2)- Rawat Publication-2013
  - 10) K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967
  - 11) Shankar IAS Academy- Environment (ed 4)- Shankar IAS Academy-2016
  - 12) Dr. Suresh K. Dhameja- Environmental Studies-S.K &Kataria& Sons-2012
  - 13) EarchBharucha- Textbook Of Environmental Studies (For Ungraduate Courses(ed 2))- Universities Press-2013
  - 14) Dr.J.P. Sharma- Environmental Studies (For Ungraduate Courses(ed 4))- University Science Press-2017
  - 15) ManojTiwari, KapilKhulbe, ArchanaTiwari- Environmental Studies-I.K. Publising-2007
  - 16) K.R.Chandhoke- Environmental engineering And Diaster Management-Jain Brothers-2012
  - 17) Basic Of Environmental Science- AbhijitMitra, Tanmay Ray Chawdhari-New Central Book Agency-2017
  - 18) D.P. Kothari, K.C Singal, RakeshRanjan- Renewable Energy Sources And Emerging Technologies (ed 2)- PHI Learning Private Limited Delhi-2014
  - 19) S.R. Reddy- Irrigation Agronomy-Kalyani Publisher-2007
  - 20) Euene P. Odum, Gray W. Barrett- Fundamentals Of Ecology (ed 5)- Cengage Learinig-2005
  - 21) Dr.B.P. Pandey- Economic Botany-S. Chand & Company Private Limited-1978
  - 22) K.V. Krishnamurthy- A Advance Textbook On Biodiversity-Oxford & IBH Publising-2014
  - 23) The Forest Law-Law Publisher House.
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### **Optional 3- NRM & Livelihood Perspective- 4 credits: 60 hours teaching**

#### **Objectives of the course:**

Majority of people in rural and tribal areas are dependent on Natural resources for their daily living. Natural resources are major resources of livelihood e.g. agriculture, animal husbandry, forest, sea water, sand, trees, birds etc. Hence it is important to learn sustainable ways to use natural resources. Preservation, conservation, development and management of the natural resources become crucial while using them for environmental sustainability aspect of . Hence learners will be knowledgeable to know sustainable livelihood options.

#### **Module/ Unit 1:- (15 Lectures)**

Livelihoods Perspectives, Concepts of livelihood, employment, income generation. Livelihoods, Poverty and Wellbeing based on Natural resources. Over exploitation of natural resources. Sustainable livelihoods, Environmental aspects and sustainability of livelihood. Methods for Livelihoods Analysis. Steps in livelihood promotion, Processing, storage facilities, cold storage technology, market networks, collectivism, cooperative movements etc. Environmental guideline for industries by department of Environment of GOI.

#### *References*

*Ajit Shankar Environmental Management – 2015, Sustainable farming /Parma culture /organic farming Ch 2, pp65-106.*  
*Ian Scoones, Sustainable Livelihoods and Rural Development by Practical Action Publishing, August 2015( livelihood framework pp 28- 45)*

#### **Module/ Unit 2:- (15 Lectures )**

Agriculture – Parma-culture, organic farming – bio pesticide making , horticulture, dairy, Beekeeping, animal husbandry, goatry, fishery, poultry, wild life sanctuaries, National Parks, forest produces- woods, match making, paper industry and livelihood, herbal medicines, flora& fauna, water based livelihoods, bricks making, bamboo and livelihood, eco tourism development, solar energy industries, woolen cloth industries, leather industries etc. Pollution, degradation and exploitation of natural resources while earning livelihood and counter actions for same. Treatment plant for Industrial Effluent plant, Environmental guideline for industries by department of Environment of GOI.

#### *References*

*Dr. Probir Kumar Bose, Dr. Pradipta, Kumar Bose- Environment Ecology & Sustainable Management-Everest Publication House-2007pp ( Effluent plant- pp 364-406,GOI guide lines-pp531-564)*  
*Dr. Smita Diwase Indian Agriculture & Business Management, KRISH2009,Pune.( agro business-Pp3-420)*  
*K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967( forest based livelihoods- pp243-293)*

#### **Module/ Unit 3:- (15 Lectures )**

Access and Control, Institutions, Organizations and Policy Processes, National programmes and livelihood promotions based on natural resources NRLM, KVIC, KVK,NABARD, NECC ,Amul, SFURTI, Custer development programme, SHGs, cooperative, small processing groups etc. Business networks, related policies, planning, implementation of projects by government, NGOs etc. Challenges before the stakeholders in bringing sustainability of livelihoods based on natural resources. Availability of insurance services and bank linkages, skill development and escort services for livelihood development.

### *References*

*Ajit Shankar Environmental Management – 2015,Sustainable farming /Parma culture /organic farming*

*Ch 2, pp65-106.*

*Dr. Smita Diwase Indian Agriculture & Business Management, KRISH2009,Pune*

*Institutional- websites and GOI government circulars .*

### **Module/ Unit 4:-(15)**

Seminars presentation on Analysis of present practices of various livelihood opportunists, promotion of projects and efforts by NGOs, Government and people.

(Guest lecturers, Practitioners from NGOs to make case studies presentations, government official lectures etc, study tours to some of the NGOs,)

### **References:**

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- 1) Punam Sharma Dr. Rashmi Gupta- Environmental Science Paper 1 & 2-Arihant Publication.
  - 2) P.L. Maliwal- Agronomy At A Glance (ed 2) –Agro-tech Publishing Academy-2007
  - 3) K.P. Sagareiya- Forest & Forestry-National Book Trust , India-1967
  - 4) Rattan Lal Agrawal- Seed Technology (ed 2)- Oxford And IBH Publisher-2013
  - 5) Dr. R.J.Ranjit Daniels, Dr.Jagdish Krishnaswamy- Environmental Studies-Wiley India-2010
  - 6) Jvs Murty- Watershed Management (Ed 2)- New Age International Publishers-2013
  - 7) Dr. Smita Diwase Indian Agriculture & Business Management, KRISH2009,Pune.
  - 8) Dr. Probir Kumar Bose, Dr. Pradipta, Kumar Bose- Environment Ecology & Sustainable Management-Everest Publication House-2007
  - 9)
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#### **Optional 4-**

#### **Development Administration and Governance & NRM. 4 credits: 60 hours teaching**

**Objectives of the course:** This course will bring understudying among the students to learn and to know about formal administrative system in the nation at various level like Central, state, regional and local level with special reference while concern and practice while working on Natural resources management.

**Module/ Unit 1:-(15 Lectures )** Concept of Administration, governance, Local, State , National level administration and governance International level governance, Institutions of governance and role. Policies, programmes implementations procedures. Power, authority, role and responsibility . Political leadership and state government's governance procedures. Citizenship and role and responsibility with development administration. Public, Private Partnership concept.

#### **Reference**

*Leena Srivastava, (2014) Policy Intervention Analysis, Environmental Impact Assessment - Ritu Paliwal, Leena Srivastava*

*S.R.Maheshwari, (Ed6,2013) Indian Administration, Orient BlackSwan, New Delhi*

Sanjay Bhattacharya Social welfare Administration, Deep& Deep Publication, New Delhi.361-401

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**Module/ Unit 2:-(15 Lectures :** Parliaments and house, various Ministries and their role, Policy formation, Bill presentation, TASK FORCES GROUPS, Indian Administrative Services, State Administrative services, Political elected members and their role and governance etc.

*S.R.Maheshwari, (Ed6,2013) Indian Administration, Orient BlackSwan, New Delhi*

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**Module/ Unit 3:-(15 Lectures )** Various Acts & and their implementation procedures , Policies and programme execution institutions, bodies etc. National Rural Mission, Jalswaraj, Policies, programmes implementations , administration system of National programmes concern with NRM e.g. Forest, marine, agriculture, Environment, Pollution control etc.

*Leena Srivastava, (2014) Policy Intervention Analysis, Environmental Impact Assessment - Ritu Paliwal, Leena Srivastava*

*S.R.Maheshwari, (Ed6,2013) Indian Administration, Orient BlackSwan, New Delhi*

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**Module/ Unit 4:-(15)** Visits to various institutions and government department to learn the system and interactions with administration.

(Guest lecturers, Practitioners from NGOs to make case studies presentations, government official lectures etc, study tours to some of the government and non government institutions.,)

**References**

Leena Srivastava, (2014) Policy Intervention Analysis, Environmental Impact Assessment - Ritu Paliwal, Leena Srivastava

S.R.Maheshwari, (Ed6,2013) Indian Administration, Orient BlackSwan, New Delhi

Sanjay Bhattacharya Social welfare Administration, Deep& Deep Publication, New Delhi.361-401

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## **Optional 5- Social Case Work/ Working with Individuals -Methods of Social Work**

**4 credits: 60 hours teaching**

### **Objectives of the course:**

1. To understand the case work method and its application in practice
2. To equip learners with theoretical knowledge for work with individuals and families
3. To develop competencies in learners to use the method in practice while working with individual clients and families.
4. To equip learners with values and skills necessary for working with individuals and families.

### **Module/ Unit 1 :-( 15Lectures)**

Historical Perspectives;History and Development of Social Casework in U.K., U.S.A and India.

Social Casework as a Method of Social Work, Its Principles and Models of Casework Practice:

Concept and Definitions; ii. Components of casework : Person- client; significant others and collaterals; Problem- need, impaired social functioning; Place- agency, objectives, functions, policies and resources; Process- casework intervention; iii. Principles: Begin where the client is; Individualization; Purposeful expression of feelings; Controlled emotional involvement; Acceptance; Non-judgmental attitude; Client self-determination; Confidentiality; iv. Models : a. Social diagnostic (Richmond); b. Supportive and modificatory (Hamilton); c. Problem solving (Perlman); d. Crisis intervention (Rapport); e. Classified treatment method; f. Competence based approach

### **Reference**

*Singh D K and Bhartiya A K, Social Work – Concept and Methods, New Royal Book Company, Lucknow, 2009, p- 118-135.*

*TanksalePrajakta, Working with Individuals, MangeshPrakashan, Nagpur, 2003. P- 1- 33; 130-250.*

*Bhattacharya Sanjay, Social Work – An Integrated Approach, Deep and Deep Publications Pvt. Ltd. Delhi, 2010, p-93; 212-236.*

*Upadhyay R.K. Social Case Work, Rawat Publications, Delhi, p- 12-39.*

### **Module/ Unit 2:-(15 Lectures )**

**Tools of Working with Individuals and Families:**i. Intake-record/sheet and the intake interview (client engagement); ii. Casework interview; iii. Home visit-collateral contacts; iv. Recording and its types – narrative, process, problem oriented

record keeping(PORK), Subjective & objective assessment plan (SOAP), Use of case work records as a tool of intervention; v. Case worker –client relationship; vi. Knowledge of resources (networking); vii. Communication - verbal, non-verbal, eye contact, body language; viii. Case presentation as tool of professional development.

**The process of Intervention with Client System and Target System :** a. Study; b. Continuous assessment and analysis; c. Psycho-social diagnosis; d. Intervention; e. Follow-up; f. Termination; g. Case presentation based on field work practice

#### **Reference**

*Singh D K and Bhartiya A K, Social Work – Concept and Methods, New Royal Book Company, Lucknow, 2009, p- 136 – 150.*

*Encyclopaedia of Social Work in India, Vol. 1, Ministry of Welfare, Government of India, 1987, P – 59 -66.*

*TanksalePrajakta, Working with Individuals, MangeshPrakashan, Nagpur, Vol.1, 2003. P- 111-129; Vol. 2, p-1-240.*

*Bhattacharya Sanjay, Social Work – An Integrated Approach, Deep and Deep Publications Pvt. Ltd. Delhi, 2010, p-237-245; 262-266.*

*Upadhyay R.K. Social Case Work, Rawat Publications, Delhi, p- 130-135; 136-179.*

**Module/ Unit 3:-(15 Lectures ), Scope of Casework in Practice & Essentials of Working with Individuals and Families:** i. Working with individuals and families in primary and secondary settings; ii. Social casework & counseling –similarities and differences; iii. Limitations of the method; iv. Skills for working with individuals and families; v. Techniques for working with individuals and families; vi. Qualities in the caseworker vi. Importance of Psychotherapy in Case Work.

#### **Reference**

*Singh D K and Bhartiya A K, Social Work – Concept and Methods, New Royal Book Company, Lucknow, 2009, p- 153-175.*

*TanksalePrajakta, Working with Individuals, MangeshPrakashan, Nagpur, Vol.2, 2003. P-241-560*

*Bhattacharya Sanjay, Social Work – An Integrated Approach, Deep and Deep Publications Pvt. Ltd. Delhi, 2010, p-247-261.*

*Upadhyay R.K. Social Case Work, Rawat Publications, Delhi, p- 40-130.*

#### **Module/ Unit 4:-(15 seminars presentation**

**A. The role of values in helping;** Exposing values versus imposing them; Value conflict with clients– lesbian, gay, bisexual, family issues and gender role identity;. Role of spiritual & religious values in counseling; Models of practice.

**B. Ethical Issues;** Problems in using codes of ethics. Principle ethics and virtue ethics, steps & ethical decision making model, Transference and counter transference and its ethical implications; confidentiality ethical and legal issues.

**References**

*Singh D K and Bhartiya A K, Social Work – Concept and Methods, New Royal Book Company, Lucknow, 2009, p-150-153.*

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*TanksalePrajakta, Working with Individuals, MangeshPrakashan, Nagpur, 2003. P- 345-472.*

*Upadhyay R.K. Social Case Work, Rawat Publications, Delhi, p- 180-247*

**References**

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Bhattacharya Sanjay, Social Work – An Integrated Approach, Deep and Deep Publications Pvt. Ltd. Delhi, 2010.

Encyclopaedia of Social Work in India, Vol. 1, Ministry of Welfare, Government of India, 1987.

Singh D K and Bhartiya A K, Social Work – Concept and Methods, New Royal Book Company, Lucknow, 2009.

TanksalePrajakta, Working with Individuals, MangeshPrakashan, Nagpur, Vol.1, 2003.

Upadhyay R.K. Social Case Work, Rawat Publications, Delhi.

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**Optional 6- Project Management, Implementation, Monitoring and Evaluation; 4 credits: 60 hours teaching+**

**Objectives of the course:** Development Project planning process, and learning about various components of project management so that results /outputs will be achievable.

1 To learn and study the problem which needs interventions and solution, critical analysis of the problem.

2 To learn to understand various methods and alternatives suitable for the problem solution and do a planning .

3 To know and learn the appropriate methods of practice for result oriented implementation of the interventions or of planed projects, programme to achieve set achievable goals,

4 To know the process and importance of MIS, documentation of work, & data Supervision, Monitoring and Evaluation and effective project management.

**Module/ Unit 1:-(15 Lectures )** Problem identification and planning, pilot visits, problem analysis, logical frame work analysis, strategic planning, goals setting, objectives framing, setting of indicators, scope, activities planning, (N0. 1 Part 4, chapter 13, pgs.265-295) funds and budgeting , manpower planning, roles and responsibilities, , risk management etc. project writing, sending to donors. (Ref.N0. 1 Part 4, chapter, 14, 15, 16, 17) (Ref.No. 2, chapter1, 2,3 4,5)

*References*

*David I Cleland, , Luis R. Ireland ,Project Management: Strategic Design and Implementation,, fifth edition , Mc Craw-Hill , ISBN*

*Valerie Steson, /susan Hahn, David leege, Debbie Reynolds, guy sarrock, Pack II Project management and implementation Guidance for CRS project and Program managers, CRS catholic relief service, Baltimore, 2007*

**Module/ Unit 2:-(15 Lectures )** Implementation phase, understanding the projects and target groups, stakeholders, training of the staff and other stakeholders, guidelines roles and responsibilities deliverance, job charts, interventions, executing activities and programme as per planning follow ups and feedback review meetings of the staff, reporting , documentation of the works etc. Leadership qualities of project implementer, staff etc (Ref. No. 1 chapters 1-8). (Ref. N0. 2, chapter 6)

*References*

*David I Cleland, , Luis R. Ireland ,Project Management: Strategic Design and Implementation,, fifth edition , Mc Craw-Hill , ISBN*

*Valerie Steson, /susan Hahn, David leege, Debbie Reynolds, guy sarrock, Pack II Project management and implementation Guidance for CRS project and Program managers, CRS catholic relief service, Baltimore, 2007*

**Module/ Unit 3:-(15 Lectures )** Role of Monitoring and Evaluation, importance of supervision, monitoring and evaluation etc. Monitoring process, evaluation process initial –meddle- end

phases of evaluation, democratic and participatory evaluation methods, reporting and documentation of monitoring and evaluation, improvement and feedbacks, additions for better implementation of the projects and results. Reporting methods and techniques, completion report writing, PPT, media reporting etc. (Ref.No. 1 chapters, 18,19,20,21,22,23) (Ref. N0. 2, chapter 6)(Ref.N0. 2, chapter 7)

### **References**

*David I Cleland, , Luis R. Ireland ,Project Management: Strategic Design and Implementation,, fifth edition , Mc Craw-Hill , ISBN*

*Valerie Steson, /susan Hahn, David leege, Debbie Reynolds, guy sarrock, Pack II Project management and implementation Guidance for CRS project and Program managers, CRS catholic relief service, Baltimore, 2007*

### **Module/ Unit 4:-(15 hours) Seminars presentation on Project preparation planning)**

Application of theory in practice and skill development in project writings each student has to select one of the problems for intervention and study it and present a project proposal as skill development on project proposal writing.

#### References:-

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1. David I Cleland, , Luis R. Ireland ,Project Management: Strategic Design and Implementation,, fifth edition , Mc Craw-Hill , ISBN, 978-0-07-177708-07,New York, 2007
  2. Valerie Steson, /susan Hahn, David leege, Debbie Reynolds, guy sarrock, Pack II Project management and implementation Guidance for CRS project and Program managers, CRS catholic relief service, Baltimore, 2007,
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## **Optional 7- Basic Counseling Skills:**

### **4 credits: 60 hours teaching**

It is designed to develop professionals in this vital field. The contemporary social scenario has resulted in an increased need and demand for professional support in terms of counselling and family therapy, which is being recognized as an effective approach both for promoting positives like strengthening families and increasing resilience of individuals in vulnerable situations as well as for addressing negative aspects such as social-psychological problems and maladaptive behaviours.

### **Objectives of the course**

- To familiarize students with the basic concepts and issues of counselling.
- To be informed of the history and development of professional counselling
- To provide a comprehensive overview and general understanding of the profession of counselling
- To imbibe the basic skills, values and ethics of Counselling
- To provide students with a conceptual understanding of the psychological foundations of human behavior
- To enable the students to make possible links between various functions of the mind and behaviour

### **Module/ Unit 1:-(15 Lectures )**

Definition, scope and, goals; Historical development/ Evolution of counseling profession; Counselor-Counselee relationship. Basic skills in Counselling, Current trends; Characteristics and Profile of a counselor; Types of interventions, Difference between Psychotherapy and Counseling.

#### **References**

*Nelson-Jones Richard, Basic Counselling Skills, Sage Publications, New Delhi, 2015, p- 1-74.*

*SahajpalPrem and RaoNarayana S., Counselling and Guidance, McGraw Hill Education Pvt. Ltd. 2016, p- 15-20; 26-43;*

*KinraAsha, Guidance and Counselling, Dorling Kindersley Pvt. Ltd. Delhi, 2008, p- 126-131.*

*ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017, p- 2-7;*

### **Module/ Unit 2:-(15 Lectures )**

Issues in Counselling practice, Techniques of appraising the clients – psychological and non-test appraisal. The micro skills approach; pacing; attending behaviour- physical attending- zones and seating skills – visual/eye contact, verbal tracking, attentive and authentic body language, usefulness of silence, Active listening –kinds of listening and inadequate listening; Use of open, closed and other types of questions, monitoring- feeling and physical reaction, encouraging, paraphrasing, summarizing, reflection of feeling, and basic empathy.

## References

*Nelson-Jones Richard, Basic Counselling Skills, Sage Publications, New Delhi, 2015, p- 75-147.*

*ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017, p-20-32*

*Corey Gerald, Theory and Practice of Counselling and Psychotherapy, Cengage Learning India Pvt. Ltd. Delhi, 2016, p- 3-52.*

## Module/ Unit 3:-(15 Lectures )

Theories and techniques of Counselling, process and steps, Advanced skills–confrontation, self-disclosure, immediacy, influencing skills; Essential conditions for personality change, The role of values in helping; Exposing values versus imposing them; counselors’ assumptions and multicultural competencies.

## References

*SahajpalPrem and RaoNarayana S., Counselling and Guidance, McGraw Hill Education Pvt. Ltd. 2016, p- 83-110; 187-192*

*KinraAsha, Guidance and Counselling, Dorling Kindersley Pvt. Ltd. Delhi, 2008, p- 132-142.*

*Corey Gerald, Theory and Practice of Counselling and Psychotherapy, Cengage Learning India Pvt. Ltd. Delhi, 2016, p- 55-350.*

*ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017,( p-136-368.)*

## Module/ Unit 4:-(15 hours)

Ethical Issues; Problems in using codes of ethics.Ethical guidelines and standards, Principle ethics and virtue ethics, steps & ethical decision making model, Transference and counter transference and its ethical implications; confidentiality ethical and legal issues.

Practicals wherever it is required, demonstration of skills, emotions, practice etc. will be part and parcel of the course On completion of the above programme, an opportunity to use under supervision, the counseling models learnt, is provided in a selected placement.

## References

*Nelson-Jones Richard, Basic Counselling Skills, Sage Publications, New Delhi, 2015,( p- 155- 178.)*

*ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017,( p-13-18).*

*Corey Gerald, Theory and Practice of Counselling and Psychotherapy, Cengage Learning India Pvt. Ltd. Delhi, 2016, (p- 36-51.)*

*Gladding, Samuel T. (2009): Counselling - A Comprehensive Profession, Sixth Edition, Pearson Education, Published by Kindersley.*

## ***References***

- 1 Nelson-Jones Richard, Basic Counselling Skills, Sage Publications, New Delhi, 2015
1. ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017.
2. Corey Gerald, Theory and Practice of Counselling and Psychotherapy, Cengage Learning India Pvt. Ltd. Delhi, 2016,
3. Gladding, Samuel T. (2009): Counselling - A Comprehensive Profession, Sixth Edition, Pearson Education, Published by Kindersley.
5. SahajpalPrem and RaoNarayana S., Counselling and Guidance, McGraw Hill Education Pvt. Ltd. 2016
6. KinraAsha, Guidance and Counselling, Dorling Kindersley Pvt. Ltd. Delhi, 2008.
7. Corey Gerald, Theory and Practice of Counselling and Psychotherapy, Cengage Learning India Pvt. Ltd. Delhi, 2016.
8. ReichenbergLourie W. and Seligman Linda, Theories of Counselling and Psychotherapy, Pearson India Education Services Pvt. Ltd. Noida, U.P, 2017