

31. Monitoring Rare, Endangered & Threatened (RET) taxa and conservation measures (prioritizing species)

- 32. Nectar plants in the gardens and visitation by birds and butterflies
- 33. Optimal water requirement for different plant species
- 34. Plastics / garbage and impact on mangroves
- 35. Pollination dynamics / pollinating agents like insects, bats and birds
- 36. River bank / sand stabilization by appropriate plant species
- 37. Road networks and comparative ambient air temperature (with and without avenue trees)
- 38. Role of natural reed beds in controlling pollutants leading to water body
- 39. Seed Poisoning and Bird Mortality
- 40. Shrinking Wetlands and Its impacts
- 41. Selective planting of trees and its impact on local ecosystem / biota
- 42. Status of road side trees in city areas and their significance in regulation of urban climate and ecology
- 43. Status of water regime (i.e availability of water in different forms, viz. precipitation, surface and ground water, snow, soil moisture, humidity etc and its cyclic process) in village / city environment and ascertaining the anthropogenic and natural factors causing changes in it
- 44. Study of biodiversity hotspots in urban environment
- 45. Study on the natural seasonal changes in a garden or natural grove and impact of anthropogenic activities on that
- 46. Study on Road Kills of animals and its ecological consequences
- 47. Study on the competitive ability of alien invasive species and native species (e.g. Anogeissus pendula an excellent native competitor to invasive alien Prosopis juliform)
- 48. Study on the invasive pathways of alien species in different landscapes
- 49. Study on urban biodiversity
- 50. Urban bird communities
- 51. Vegetation as wind Breaks (comparative studies and applied aspects)

St-2 Health, Hygiene & Sanitation

- 1. Metals / heavy metals in potable water and its management
- 2. Water quality assessment
- 3. Biofiltration / bioremediation processes to make water available for recycling
- 4. Hygiene at personal / familial / community level and its impact on community health
- 5. Assessment of hygiene maintained at regular basis
- 6. Level of hygienic conditions during different seasons
- 7. Occurrence of diseases due to breakdown in hygienic conditions and its management
- 8. Waste management (eg. Diapers)
- 9. Diseases (microbial / parasitic) and their impact of social / economical / environmental parameters
- 10. Impact and management of zoonotic diseases
- 11. Impact and management of conditions arising out of vital nutrient deficiency / malnutrition
- 12. Comparison of sanitation before and after Swachch Bharat campaign, in terms of behavioural change
- 13. Impact of cookware used to cook on health
- 14. Effect of Indoor Air Pollution on health
- 15. Maternal health and hygiene during pre and post-partum stages
- 16. Gender specific health and hygiene and its control / management
- 17. Safe use of anthropogenic waste in agriculture.
- 18. Impact of use of public transport on community health.
- 19. Improving occupational health.
- 20. Promoting city health through sensing technologies
- 21. Unobtrusive fall monitoring of the elderly.

St-3 Waste to Wealth

- 1. Fuel from Animal excreta such as cow dung, bio fuels
- 2. Endling of E-Waste
- 3. Identification, documentation & classification of the amount of electronic and electrical goods left unused in one's locality & look out for means for disposal and/or re-use.
- 4. Solid waste processing and disposal

- 5. Preparing Briquettes and checking efficient use for soil less plantation
- 6. Minimizing wastage of irrigation water through improving water retention in the soil using various wastes eg. wood shavings, briquettes, paddy husk, coconut choir, etc.
- 7. Bio remediation of waste water
- 8. Hydroponics using grey and/or black water
- 9. Treatment of kitchen waste water for removal of Fat, Oil Grease
- 10. Preparing natural dyes from leaves, flowers, fruits of weeds
- 11. Conversion of discarded flowers into useful products
- 12. Extracting oil from the seeds of weeds, to be used for illumination
- 13. Retention of soil moisture using wood shavings, briquettes, paddy husk, coconut husk, hyacinth in crop fields
- 14. Using paddy straw as substrate for mushroom cultivation
- 15. Use of Graphite from used batteries (dry cells)
- 16. Enhancing fertility of land using various wastes
- 17. Plastic decomposition by bacteria
- 18. Investigating properties of sponge for water retention and growing plants
- 19. Use of thrown away corrugated cardboard for making of tiles, panel boards, etc.
- 20. Preparing tiles and panel boards from tetra pack/ plastic bottles
- 21. Preparing fertilizer & other useful products from the carcasses
- 22. Innovative techniques for converting agriculture wastes into useful products

Survey based projects

- 23. Finding out the average waste generated per day at home. Extend the estimation to waste generated by the block, village, district, etc.
- 24. Study the packaging trend and estimate the associated wastage
- 25. Monitoring air quality around waste landfill and garbage dump areas
- 26. Diversity of organisms/ animals around land fill areas and linkage to vector borne diseases.
- 27. Impact of polluted water due to presence of waste dumping sites on public health

St-4 Society Culture & Livelihoods

- 1. 'Society, culture and food system' its relation to sustainable production and consumption case study of a community/tribe
- 2. Natural Resource Management and Livelihood security case study of area/community
- 3. "Society, culture and livelihood" its contribution towards climate change resilience or disaster risk reduction case study of an area / a community
- 4. "Natural Disaster and livelihood security" case study of an area
- 5. "Social institution and sustainable natural resource management" case study of a community/ an area
- "Society, culture and food system" its impact of cooking energy consumption and management case study of an area
- 7. "Impact of social and cultural practices on sanitation and health" case study of an area
- 8. "Disaster induced migration and its impact of social, cultural and livelihood practices" case study of a community
- 9. Social system, cultural practices its contribution to biodiversity conservation/ wild life conservation- case study of an area/ a community
- 10. Study on occupational hazard and its impact.
- 11. A study on menstrual hygiene related customs in your locality/community and analyse the positive and/or negative impacts of the same.
- 12. Identifying traditional customs in your locality that can be detrimental to health of the women in the family.
- 13. A study on changing livelihood structure, economic condition and associated impacts on production and consumption patterns of your locality
- 14. Study on impact of scientific intervention in optimizing the production of traditional handlooms.
- 15. Study on disappearing artisanal communities like blacksmiths with the advent of lathes etc.
- 16. Skill mapping and gap analysis in a particular community / area and correlation to local demand, local resources.

- 17. Local economy mapping with local natural resources and conducting feasibility study for local value addition through appropriate technologies.
- 18. Eco-cultural mapping of a locality to develop eco-tourism operational plan.
- 19. Study on local festivals /rituals and its relationship with mapping of agricultural/animal husbandry practices and studying the underlying local knowledge base.
- 20. Analysis of local superstitions / myths and its impact on human development in a sociological perspective.

St-5 Traditional Knowledge System

- 1. Evaluation of nutritional values of traditional food
- 2. Documentation of food fermentation techniques and its relation to food quality preservation
- 3. Study on biodiversity of a particular local community and developing people's biodiversity Register
- 4. Different architectural structures and its importance in maintaining the ecosystem (e.g Housing, bridges, water distribution canals)
- 5. Resource conservation methods and its sustainability
- 6. Various agricultural farming systems and its importance with the future scope
- 7. Traditional knowledge of various agricultural tools and its applicability in organic farming
- 8. Sustainable knowledge of various agricultural practices
- 9. Traditional knowledge of fisherman and its links to sustainable livelihoods
- 10. Study on community seed bank and its relation to food security
- 11. Traditional knowledge on Food Preservation Techniques and its importance as source of livelihood
- 12. Traditional knowledge on natural fibre and its uses in modern context
- 13. Study on traditional knowledge on ecological restoration mechanism its impact on ecosystem management
- 14. Design and development of appropriate technology based on traditional technological knowledge
- 15.15. Experiment on water harvesting based on traditional knowledge to verify its contemporary applicability

All the best to all and Get Ready for NCSC 2019...

Form Submission Date :

Second Week of September

File Submission Date :

First week of October

District Level :

Second week of October

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