



**Madhesh Agricultural University**

**Rajbiraj, Saptari**

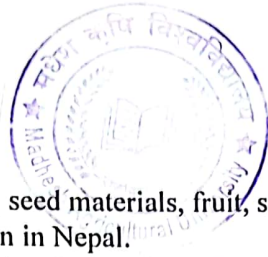
**Syllabus of Farm manager (Tech. Officer)**

1. Concept, nature definition and scope of farm management.
2. Importance of farm management and problem related to farm management in Nepal.
3. Orientation of farming system and practice in Nepal.
4. Management of farm practice and land management, farm layout, impact of mechanization and soil nutrient management.
5. Principle of farm managements farming and their techniques.
6. Farm budgeting-inter prizes partial budgeting and complete budgeting.
7. Farm record keeping, balanced sheet, income statement and case follow statement.
8. Farm inventory, depreciation and valuation techniques.
9. Measuring a financial condition and farm profit.
10. Farm practice production efficiency.
11. Factor effecting of farm production (land, labor, capital and organization).
12. Risk and uncertainty-concept, type, safeguard and measures.
13. Linear programming- concept and approach.

**Crop Management**

1. Definition of agriculture and agronomy, its relationship with other disciplines, role of agronomy in relatively to farm production.
2. Role of agronomist
3. Agro-ecology zones of Nepal
4. Definition and objective of tillage, its concept primary tillage, secondary tillage, minimum tillage and zero tillage
5. Definition of crop rotation and its principle pattern, cropping system, mixed cropping, multiple cropping, relay cropping, crop intensity, crop index, harvesting index and biological yield.
6. Definition of weather and climate ,effect of Marco and micro climate factor on crop production
7. Definition of soil fertility and soil productivity, various agronomical practices to be adopted in soil fertility and soil productivity maintenances.
8. Introduction of crop nutrient, roles of manures and fertilizers and nutrient contents factors affecting fertilizer use, time and method of their application ,use and limitations, organics manures, green manure and bio fertilizers.
9. Definition of weed management, advantage and dis-advantage, type of weeds, mode of weed, method of weed control practices.
10. Principle and objectives of drainage systems, method of improving soil drainage system.
11. Integrated insect pest management of various crops.
12. Integrated disease management of various crops.

  
रजिस्ट्रार



13. Definition of seed, grain, seed materials, fruit, seed technology, importance, scope and history of seed production in Nepal.
14. Seed system in Nepal, national seed vision (2013-2025) seed program and organization
15. Seed type and their classification (breeder, foundation, certified, composite and hybrid seed)
16. Seed formation and development
17. Factor affecting seed growth and development
18. Seed germination and seed dormancy
19. Seed germinating type and method of breaking seed dormancy and factor effecting seed germination.
20. Seed gravity and factor affecting it.
21. Principle of gravity seed production (genetic, agronomic, economic)
22. Genetic and agronomic principle of quality seed production.
23. Seed production of rice, wheat, maize, lentil, pigeon pea, and mustard, sunflower.
24. Basic principle and practices of hybrid seed production (rice/maize)
25. Field inspection, seed classification and seed quality control system.
26. Field inspection: objective, general principles and method of field inspection.
27. Seed certification: objective, general principles and seed certification standard.
28. Seed classification agencies in Nepal and process of seed classification.
29. Seed sampling, general principle of seed sampling, types of seed sample and produces seed sampling
30. Seed producing, storage and marketing.
31. Seed harvesting, drying, cleaning
32. Seed marketing: seed distribution system in Nepal, balance sheet, seed buffer stock, seed marketing in Nepal.
33. Seed treatment.

*S. Sharma*

रजिष्टर