

**Proposed Curriculum Training of Trainers – FTL systems
September Year 1 – May Year 2**

Round 1: September – October (2 days)

1. Introduction to FTL based cattle fattening
 - 1.1. Potential for cattle fattening in Eastern Indonesia
 - 1.2. The problem of poor nutrition of cattle
 - 1.3. Why use FTL and opportunities in Eastern Indonesia
 - 1.4. Potential for integrating FTL based cattle fattening with existing enterprises
2. Cattle fattening system management
 - 2.1. Fattening systems
 - 2.2. Annual planning and budgeting
 - 2.3. Financial analysis
3. Field trip to demonstration site (half day)
4. Establishment of FTL plantations in village
 - 4.1. How much FTL should be planted
 - 4.2. Seed source and treatment
 - 4.3. Nursery establishment and management
 - 4.4. Practical exercise in establishing nursery
5. Cattle farmer group training and facilitation
 - 5.1. What's the difference: extension versus facilitation?
 - 5.2. Awareness raising for participation
 - 5.3. Facilitation of practice based learning
 - 5.4. Structure and organisation of thematic training
 - 5.5. Workplan development

Round 2: November (1 day)

6. Management of FTL plantations in village
 - 6.1. Transplanting into the field
 - 6.2. Protecting the growing seedlings from weeds and animals
 - 6.3. Harvesting in a sustainable manner
7. Cattle farmer group training and facilitation
 - 7.1. Routine guidance of farmer groups
 - 7.2. Communication skills (presentation, facilitation, written, non-verbal)

Round 3: March (2 days)

8. FTL harvesting and utilisation
 - 8.1. Stage of first harvest
 - 8.2. Cutting management (height, number of branches per tree, ...)
 - 8.3. Time and intervals of harvest for sustainable use
 - 8.4. Storage and preservation
9. Introduction to feed management

- 9.1. What nutrition do cattle need for best fattening outcome
- 9.2. Sources of feed in village:
 - FTLs: which, how to harvest
 - other than FTL (grass, corn stover, other plant material, tofu, rice bran)
- 9.3. Role of FTLs in cattle nutrition
- 9.4. Adaptation of cattle to FTLs
- 10. Field trip to demonstration site (half day)
- 11. Cattle farmer group training and facilitation
 - 11.1. Enhancing decision making skills
 - Obtaining access to relevant information
 - Annual farm management planning
 - Experimentation and observation
 - Economic analysis and setting targets

Round 4: May (2 days)

- 12. Cattle fattening
 - 12.1. Feed and water requirements
 - 12.2. What percentage of FTL in diet
 - 12.3. Managing toxicity when feeding Leucaena
 - 12.4. Weight assessment
 - 12.5. Monitoring weight gain
 - 12.6. Optimum duration of fattening and sale weight
- 13. Cattle management
 - 13.1. Building a cattle pen
 - 13.2. Selecting feeders
 - 13.3. Health management:
 - Parasite control (internal and external)
 - Disease control
 - Dealing with injury
 - 13.4. Keeping the cattle pen clean
 - 13.5. Waste management
- 14. Cattle enterprise
 - 14.1. Planning for fattening
 - 14.2. Financial planning and analysis
 - Buying and selling cattle (including bargaining skills)
 - Accessing banking services (saving account), loans
 - Accessing market information
- 15. Cattle farmer group training and facilitation
 - 15.1. Facilitating group dynamics
 - 15.2. Facilitating collective action at the village level