

Alternative Energy Promotion Centre (AEPC)

Programme : Clean Cooking Solution (CCS)

Position : Province Coordinator

Examination Scheme			
Language : English			
First stage			
S.N.	Subject	Full marks	Pass marks
1	Written Exam	70	35
Second stage			
2	Interview	20	
3	Presentation	10	

Curriculum

1. Engineering Economics and professional practices

- 1.1 Benefit cost analysis, cost classification, sensitivity analysis, internal rate of return, time value of money; economic equilibrium, demand, supply and production, net present value, financial and economic evaluation
- 1.2 Ethics, integrity and professionalism: code of conduct and guidelines for professional engineering practices
- 1.3 Relation with clients, contractor and fellow professionals
- 1.4 Building Bylaws

2. Energy Resources

- 2.1 Renewable and non-renewable resources
- 2.2 Supply potential, techno-economic viability, current status and importance of renewable energy resources in Nepal
- 2.3 Bio-energy, energy efficiency & energy conservation, energy crisis and management.
- 2.4 Concept of Quality Control and Quality Assurance

3. Estimating, Costing, Specification and Valuation

- 3.1 Types of estimates and their specific uses, methods of calculating quantities
- 3.2 Key components of estimating norms and rate analysis
- 3.3 Preparation of bill of quantities
- 3.4 Purpose, types and importance of specification
- 3.5 Purpose, principles and methods of valuation

4. Energy Planning and Management

- 4.1 Municipal energy planning in Nepalese context
- 4.2 Energy Auditing, energy crisis and management
- 4.3 Analysis of demand and supply and energy balances
- 4.4 Reliability and quality of electricity access in Terai

5. Current issues in Energy

- 5.1 National energy scenario
- 5.2 Social and Gender Inclusion in RE sector
- 5.3 Energy tariff and regulatory issues
- 5.4 Sustainable Development Goal (Goal No. 7 and 13)
- 5.5 Migration trend in Terai and Socio-economic status

6. Project Management

- Team building, team spirit
- Partnership, coordination and facilitation
- Importance and necessity of statistic in project identification, prioritization and selection
- Preparation and implementation of Market Development Plan (Capacity Building, technology know how, sensitization, orientation, preparation of Information, Education and Communication materials)
- Supervision and monitoring
- Planning and reporting

7. Environmental Aspects

- 7.1 Environmental Pollution and Health Impacts from energy use and measures of control.
- 7.2 Global warming and environmental impact of Renewable Energy Technologies
- 7.3 Climate change adaptation and mitigation

8. Policy and Mechanism

- Renewable Energy Subsidy Policy, 2078
- Biomass Energy Strategy, 2017
- Local Government Operation Act, 2074
- National Climate Change Policy, 2019
- Second Nationally Determined Contribution, 2020
- Renewable Energy in 15th Periodic Plan
- Independent Redress Mechanism (IRM) and Grievance Redress Mechanism (GRM) in Green Climate Fund (GCF) project