

Advanced Diploma of Rural Development Engineering

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Objective of the course

This course aims to provide the necessary skills required for people in rural areas to perform the followings

- Agricultural Foods Production and Animal Handling
- Building Construction, Drawing, Water Supply, Road and Bridge Construction, Irrigation
- Electrical Supply & Solar Electrical Supply System
- Hydraulics
- Machine Repair, Welding and Machining
- Water Chemical Treatment
- Transportation & Logistics

Course Structure

The course consists of Civil, Electrical and Mechanical Engineering principle together with Transportation, Logistics and Agricultural Foods Production.

Outcome of the course

After having completed this course, the attenders can perform rural developmental engineering basic works in their regions.

Detailed Structure of the course

Credit Points- 60 points to complete Advanced Diploma of Rural Development. Diploma and Certificate in Rural Development can be awarded upon completion of the specific units.

List of Subjects

Advanced Certificate in Rural Development Engineering (16 Credits)

(MVTC Level (3) (Course Number MVTC301)

CE106 Brick Laying, Sprouting and Gutter Construction (4 Points)

CE104 Construction Drawing (4 Points)

CE110 Building Construction (4 Points)

CE107 Water Supply (4 Points)

Diploma in Rural Development (32 Credits)

(MVTC Level (4) (Course Number MVTC401)

All units in Certificate in Rural Development (16 Credits)

CE111 Road Bridge and Irrigation System Construction (4 Points)

MVTC13PC9 Electrical Wiring (4 Points)

MVTC201Agriculture+MVTC202Animal Handling(4 Points)

MVTC204 Water Chemical Treatment (4 Points)

Advanced Diploma in Rural Development (60Credits)

(MVTC Level (5) (Course Number MVTC501)

All units in Diploma in Rural Development

RE002 Grid Connected Power System (4 Points) together with EE101 DC Circuits+EE112 AC Circuits

EE118 Electrical Supply System (4 Points)

ME108 Principle of Engine+MVTC13PC7 Engine Repairs (4 Points)

ME201 Hydraulics (4 Points)

MVTC13PC6 Welding+MVTC13PC5FittingMachining (4 Points)

MVTC209 Transport Logistics (4 Points)

Mgt101 Management Studies (4 Points)

ADVANCED STUDY

The candidates who have successfully completed Advanced Diploma of Rural Development Engineering can continue the study in Professional Diploma/ Bachelor of Applied Engineering/ Bachelor of Engineering Technology in Electrical Engineering or Civil Engineering or Mechanical Engineering or Mechatronics Engineering or Renewable Energy Engineering and Bachelor of Management Programs at St Clements University or STC Technological University.

MVTC601-Professional Diploma of Rural Development Engineering

(Bachelor of Applied Engineering-Rural Development)

(St Clements University/ STC Technological University)

TOTAL 24 Units at 60 Credit points

BE General Discipline (Total 12 units)

(Each 2 Credit points)

YEAR 2+3

1 BAE 401 Advanced Engineering Mathematics (2 pt)

2 BAE 402 Calculus (2 pt)

3 BAE 403 Engineering Mechanics (2 pt)

4 BAE 404 Engineering Materials & Thermodynamics (2 pt)

5 RE001- Foundation Studies in Renewable Energy and Sustainability (2 pt)

6.RE003- Solar and Thermal Energy Systems (2 pt)

7.RE004- Energy Storage Systems(2 pt)

10 RE010-Engineering Materials(2 pt)

11 RE012a-Electrical Engineering Part 1(2 pt)

12RE016-Design& Management (2 pt)

Professional Diploma/BE (Rural Development)

(Total 12 units) (Each 2 Credit points)

YEAR 4+5

13.RE013-Electrical Machines (2 pt)

14.BAE 501 Advanced Power Systems & Power Transmission Networks

16.BAE 604 Telecommunication Engineering

17. BAE421 Building Construction Engineering (2 pt)

18. BAE422 Estimating (2 pt)

19. BAE423 Fluid Mechanics (2 pt)

20. BAE424 Reinforced Concrete (2 pt)

22. BAE 523A Environmental Engineering (2 pt)

23. BAE621 Structural Engineering (2 pt)

24. BAE511 Air-conditioning & Refrigeration (2 pt)

Engineering Competency Demonstration Report

25. BAE608 Engineering Competency Demonstration Report (2 credit points)