

IQY Technical College သည် Bachelor of Engineering (Rural Development) Engineering (online) Course အသစ်ကို Year 10/ THS/ITC အောင်များ အတွက်ထပ်မံဖွင့်မည်။ စိုက်ပျိုးရေး၊ မွေးမြူရေး၊ ဆောက်လုပ်ရေး၊ လျှပ်စစ်၊ ကျေးလက်ရေဖြန့်ဖြူးရေး၊ နေစွမ်းအင်မှလျှပ်စစ်ထုတ်လုပ်ရေး၊ နေစွမ်းအင်သုံးရေခဲ စက်ဘာသာများပါဝင်သည်။

## **MVTC601-Professional Diploma of Rural Development Engineering**

(Bachelor of Engineering-Rural Development Engineering )  
BE(RDE)

(STC Technological University)

## **Advanced Diploma of Rural Development Engineering**

### 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

#### **Year 1**

#### **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)

#### **Year 2**

#### **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+MVTC13PC5 Fitting Machining (4 Points)

MVTC209 Transport Logistics (4 Points)

Mgt101 Management Studies (4 Points)

(Bachelor of Engineering-Rural Development Engineering )

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**TOTAL 21 Units at 60 Credit points**

**Entry requirement AGTI/ City & Guild Diploma**

**YEAR 3**

**Professional Diploma in Engineering (Year 3)**

[www.iqytechnicalcollege.com/profdipengg.htm](http://www.iqytechnicalcollege.com/profdipengg.htm)

1 BAE 401 Advanced Engineering Mathematics (3 pt)

2 BAE 402 Calculus (3 pt)

3 BAE 403 Engineering Mechanics (3 pt)

4 BAE 404 Engineering Materials & Thermodynamics (3 pt)

5. BAE421 Building Construction Engineering (3 pt)

6. BAE422 Estimating ( 3 pt)

7. BAE423 Fluid Mechanics ( 3 pt)

8. BAE424 Reinforced Concrete ( 3 pt)
9. BAE 523A Environmental Engineering (3 pt)
10. BAE621 Structural Engineering ( 3 pt )
11. RE012a-Electrical Engineering Part 1(2 pt)
12. RE016-Design & Management (3 pt)

## **Professional Diploma/BE (Rural Development)** **(Total 12 units) (Each 2 Credit points)**

### **Year 4**

13. RE013-Electrical Machines (3 pt)
14. BAE 501 Advanced Power Systems & Power Transmission Networks  
Rural Electrical Power Supply System (3 pt)
15. RE001- Foundation Studies in Renewable Energy and Sustainability (2 pt)
16. RE003- Solar and Thermal Energy Systems (3 pt)
17. RE004- Energy Storage Systems(3 pt)
18. RE010-Engineering Materials(3 pt)
19. BAE 604 Telecommunication Engineering (3 pt)  
Rural Telecommunication System
20. BAE511 Air-conditioning & Refrigeration (3 pt)  
Solar Powered Refrigeration for Rural Area

## **Engineering Competency Demonstration Report**

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

### **Engineering Handbook Applications**