MAHARSHI DAYANAND SARASWATI UNIVERSITY,
AJMER

पाठ्यक्रम

SYLLABUS

SCHEME OF EXAMINATION AND
COURSES OF STUDY

FACULTY OF SCIENCE

Certified Course in Soil and Water Conservation Examination

ALKA PUBLICATIONS
Purani Mandi, Ajmer

NOTICE

1. Change in Statutes/Ordinances/Rules/ Regulations Syllabus and Books may, from time to time, be made by amendment or remaking, and a candidate shall, except in so far as the University determines otherwise comply with any change that applies to years he has not completed at the time of change. **The decision taken by the Academic Council shall be final.**

सूचना

1. समय-समय पर संशोधन या पुनः निर्माण कर परिनियमों/ अध्यादेशों/नियमों / विनियमों / पाठ्यक्रमों व पुस्तकों में परिवर्तन किया जा सकता है, तथा किसी भी परिवर्तन को छात्र को मानना होगा बशर्ते कि विश्वविद्यालय ने अन्यथा प्रकार से उनको छूट न दी हो और छात्र ने उस परिवर्तन के पूर्व वर्ष पाठ्यक्रम को पूरा न किया हो। **विद्या परिषद द्वारा लिये गये निर्णय अन्तिम होंगे।**

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Certificate Course in Soil and Water Conservation

Scheme

		Max. Marks	Min. Marks
1.	Names of following papers		
	Paper I - Water : Resources, quality and conservation	100	25
	Paper II - Soil : Resources, Quality and Conservation	100	25
	Paper III - Practicals Field Report	50+50=100	36

2. Minimum qualification (Eligibility) for admission in the proposed Course : 10+2 with science biology/science mathematics/agriculture
3. Periods (Number of periods for Each Paper)
   60 Periods for each theory/practical
   Minimum Pass Marks :
   25 in each paper of theory but 36% marks in aggregate are essential

I Division	60%
II Division	48%

Syllabus of Certificate Course in Soil and Water Conservation

Water : Resources, quality and Conservation

Paper I

Water Resources

Hydrological cycle, Assessment of surface and groundwater resources. national water resources, Economics of water use, legal control of water use. Need for sustainable water management. NGOs and their role in water management practices.

Occurance

Vertical distribution of ground water. Aquifers, confined and unconfined. Water table variations. Perched water table. Porosity and permeability. Movement of ground water, Darcy's Law. Types of wells. Introductory ideas about the following : Water logging, conjuctive use ofwater; Causes for depletion of water table. Water analysis kit and its use. Elementory idea about ground water exploration.

Water Quality

Physical, chemical and biological characteristics of water, their significance. Standards for drinking and agriculture water.

Water Conservation

Introductoryideas :

Conservation measures : Gully control. terracing, bunding. check dams; reclamation of soils. Afforestation.

Water harvesting. Rain water harvesting, rood water harvesting, artificial recharge.

Water Conservation and management agencies in India and abroad.