

## M. Tech in Agricultural Science & Technology

### Special Entrance Exam SVU-CET -2024

#### Syllabus - M. Tech Agricultural Science and Technology

<p><b>Basics of Agriculture (40%)</b></p>	<p>Introduction to Agronomy and Crop Production, Rocks and minerals, Soil, Weather and Climate, Plant morphology and physiology, Seed and sowing &amp; Seed testing, Plant protection &amp; Weed Management, Study of crops, Dryland agriculture, Manures and fertilizers, Irrigation and drainage, Agriculture Economics, Organic farming, Agricultural production, and management.</p>
<p><b>Fundamentals of Computer, Electronics and Electrical (30%)</b></p>	<p>Fundamentals of Mathematical Statistics, Basic Applications of Computer, Components of Computer System, Central Processing Unit (CPU), VDU, Other input/output Devices, Computer Memory, Concepts of Hardware and Software, Concept of Computing and networking, Internet, WWW and Web Browsers, Data and Information, Fundamentals of C programming, Electronic Devices, Concept of semiconductors - P-N junction, Zener diode, BJT, LED, photo diode and solar cell, Number representations: binary, integer and floating-point- numbers. Boolean algebra, minimization of functions using Boolean identities, Semiconductor memories: ROM, SRAM, DRAM, Electrical and Electronic Measurements.</p>
<p><b>Aptitude (15%)</b></p>	<p>Data interpretation: Data graphs (bar graphs, pie charts, and other graphs representing data), 2- and 3-dimensional plots, maps, and tables, Numerical</p>

	computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series Mensuration and geometry, Elementary statistics and probability, Time work and distance, Averages , Logic: deduction and induction, Analogy, Numerical relations, and reasoning, Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions.
<b>English (15%)</b>	Reading Comprehension, Fill in the blanks, Cloze test, Para Jumbles, Vocabulary, Paragraph Completion, Error Spotting, Sentence Rearrangement, Word Swap.

**Reference Books:**

- “An Introduction to Agriculture” By A.K. Vyas, Rishi Raj, 9th Edition Jain Brothers.
- “Fundamentals of Agriculture” - Part 1, Arun Katyayan , 11th - 2024 edition, Kushal Publications and Distributors.
- “Quantitative Aptitude”, Revised Edition, Dr R. S. Agrawal, S Chand Publications.

**Note:**

- **For GATE qualified students no SVU-CET Entrance Exam needed.**
- **For MSc and Non-GATE qualified Candidates SVU-CET Entrance Exam needed.**

**Tentative Dates for the Exam:** First week of June, July, August 2024

**Mode of Exam:** Online (Proctored)

**Contact details:**

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