

NEWS LETTER



VRK GATE & ESE ACADEMY

(Empowering Future Engineers with Discipline & Excellence)

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About VRK GATE & ESE ACADEMY

VRK GATE & ESE Academy was established in 2025 with a vision to provide quality technical education combined with discipline and clarity of thought. The academy is committed to supporting students from rural backgrounds by offering affordable and effective coaching for competitive examinations.

This academy is started with Civil Engineering branch to offer coaching to GATE, ESE, APPSC, SSC, RRB and other competitive examinations and will be extended in future for all branches of Engineering.

Courses at VRK GATE & ESE ACADEMY

Currently the following courses are being offered* :

- ECET Coaching (Civil & Mechanical)
- GATE Coaching (Civil Engineering)
- ESE Coaching (Civil Engineering)
- APPSC AEE Coaching
- SSC / RRB JE Coaching
- IIT Foundation (Classes 8, 9, 10)
- AP Eapcet Short term and long term coaching

*Special coaching during Summer is available

Time (Work) Management

Time is eternal and cannot be managed; what can be managed is our work. Each task requires time, and individuals differ in their abilities, so the same work may take different durations.

Instead of managing time, focus on managing tasks. List activities, prioritize them, and execute them effectively for better outcomes. It is better to complete **2-3 important tasks daily** rather than taking up many and not finishing even one properly.

Career Opportunities for Civil Engineering Students

On 19-03-2026 (Ugadi), the AP Government announced the job calendar for the year. A major opportunity for Civil Engineering students is that APPSC is expected to release a notification in September 2026 for more than 500 posts across various engineering departments.

The SSC JE notification is scheduled for release soon (probably May 2026), with approximately 800 vacancies expected for Civil Engineering.

GATE-2026(CE) Rankers from our Academy: Rajesh Kumar (AIR – 1246) and ANIL (AIR- 3894) attended our Free quick Revision Classes for GATE-26

We are committed to guiding students towards success with dedication and discipline.

From : Mrs D Rohini and Mrs K Renuka - Managing Directors, VRK GATE & ESE ACADEMY, VZM

VRK Technical Quiz-1 (Subject: Fluid Mechanics; no.of questions:10; Type: MCQs)

(Note: Participants are requested to send their answers to **vrkgate@gmail.com** along with their complete contact details, including email ID, mobile number, and full postal address.

All correct entries will be considered for a lucky draw. Winners will be selected and awarded as follows:

- **First, Second and Third Prizes:** ₹100 Amazon voucher + Certificate
Certificates (soft copies only) will be issued by the academy to all prize winners.)

- 1) In fluids, shear stress is directly proportional to**
a) Deformation b) Shear Strain c) Viscosity d) velocity gradient
- 2) The type of stress exists in a static fluid is**
a) Shear stress b) Normal stress c) both shear stress and normal stress d) no stress exists
- 3) Identify correct Unit of Viscosity**
a) Ns/m^2 b) Pas c) Poise d) All
- 4) The numerical difference between any two consecutive streamlines in a flow field is equal to**
a) Stream function b) velocity potential c) discharge per unit width d) zero
- 5) Why the length of diffuser of a Venturimeter is more than its converging cone, please find out the correct reason for this.**
a) to return back the original energy the fluid possess when it is leaving Venturimeter
b) to increase velocity of fluid in the diffuser
c) to maintain a constant velocity of flow
d) to nullify the energy of the fluid
- 6) Why flow does not take place across a streamline**
a) Since Streamline obstructs the flow
b) Streamline is tangential to the flow direction
c) Stream function is not constant along the streamline
d) Some times flow takes along the flow direction
- 7) Velocity potential and stream function intersects at**
a) 90° b) 0° c) 180° d) do not intersect at all
- 8) When will be force exerted on pipe boundary during flow**
a) Acceleration of flow is zero
b) Velocity of flow is zero
c) Change in velocity occurs either in magnitude or direction
d) Momentum flux is zero
- 9) Please identify the correct 3D compressible, unsteady continuity equation for fluid flow**
a) $\partial\rho/\partial t + \partial(\rho u)/\partial x + \partial(\rho v)/\partial y + \partial(\rho w)/\partial z = 0$
b) $\partial(\rho u)/\partial x + \partial(\rho v)/\partial y + \partial(\rho w)/\partial z = 0$
c) $\partial(u)/\partial x + \partial(v)/\partial y + \partial(w)/\partial z = 0$
d) $\partial\rho/\partial s + \partial(\rho u)/\partial x + \partial(\rho v)/\partial y + \partial(\rho w)/\partial z = 0$
- 10) What is the value of kinematic viscosity of water?**
a) $10^{-6} \text{ m}^2/\text{s}$ b) 1 centi stoke c) both a and b d) None

WISH YOU ALL THE BEST

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