



HindPhotostat



Hind Photostat & Book Store

Best Quality Classroom Topper Hand Written Notes to Crack GATE, IES, PSU's & Other Government Competitive/ Entrance Exams

MADE EASY
MECHANICAL ENGINEERING
Theory Of Machine
By-Amit Kakkar Sir

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
- Previous Years Question With Solution

Visit us:-www.hindphotostat.com

Courier Facility All Over India
(DTDC & INDIA POST)
Mob-9311989030



HindPhotostat



MADE EASY , IES MASTER , ACE ACADEMY , KREATRYX

**ESE , GATE, PSU BEST QUALITY TOPPER HAND WRITTEN NOTES
MINIMUM PRICE AVAILABLE @ OUR WEBSITE**

- | | |
|--------------------------------|---------------------------|
| 1. ELECTRONICS ENGINEERING | 2. ELECTRICAL ENGINEERING |
| 3. MECHANICAL ENGINEERING | 4. CIVIL ENGINEERING |
| 5. INSTRUMENTATION ENGINEERING | 6. COMPUTER SCIENCE |

IES , GATE , PSU TEST SERIES AVAILABLE @ OUR WEBSITE

❖ IES –PRELIMS & MAINS

❖ GATE

➤ **NOTE;- ALL ENGINEERING BRANCHS**

➤ **ALL PSUs PREVIOUS YEAR QUESTION PAPER @ OUR WEBSITE**

PUBLICATIONS BOOKS -

**MADE EASY , IES MASTER , ACE ACADEMY , KREATRYX , GATE ACADEMY , ARIHANT , GK
RAKESH YADAV , KD CAMPUS , FOUNDATION , MC –GRAW HILL (TMH) , PEARSON...OTHERS**

HEAVY DISCOUNTS BOOKS AVAILABLE @ OUR WEBSITE

F230, Lado Sarai New Delhi-110030 Phone: 9311 989 030	Shop No: 46 100 Futa M.G. Rd Near Made Easy Ghitorni, New Delhi-30 Phone:9711475393	F518 Near Kali Maa Mandir Lado Sarai New Delhi-110030 Phone: 9560 163 471	Shop No.7/8 Saidulajab Market Neb Sarai More, Saket, New Delhi-30
--	--	--	--

Website: www.hindPhotostat.com

Contact Us: 9311 989 030

Courier Facility All Over India

(DTDC & INDIA POST)

THEORY OF MACHINES

- : By

AMIT KAKKAR SIR

Amit Kakkar Speaks (Telegram
channel)
(YOUTUBE)
Channel

- 3-Points [ways to making Easy Life]
- 1. Have some Patience
- 2. कुछ बर्दाश्त करना है।
- 3. बहुत कुछ नजरअंदाज करना है।

- Syllabus [Gate, Ese, ISRO, DRDO, BARC....]
↓
TOM

Kinematics of machines

kinetics (dynamics) of machine

Mechanical Vibrations

1. Simple Mechanism

2. Motion Analysis

↳ Velocity Analysis

- I-centre method
- Relative velocity method

↳ Acceleration Analysis

3. Gears

4. Gear Trains

5. Governors

6. Motion Analysis of single-slider crank Mechanism

7. Flywheels

8. Balancing

9. Gyroscope

• Mechanical Vibrations

• CAM & FOLLOWERS

Mechanical Engineering



Engg. of Mechanics



Study of Motion (DYNAMICS)

(Kinematics)

Study of motion without considering the basic cause of motion i.e. force

$$\vec{v} = \frac{d\vec{s}}{dt}$$

$$\vec{a} = \frac{d\vec{v}}{dt}$$

$$\vec{j} = \frac{d\vec{a}}{dt}$$

(Kinetics)

Study of motion with the considering the basic cause of motion i.e. force

$$\text{Dynamics viscosity } (\mu) \rightarrow \frac{N-s}{m^2}$$

$$\text{Kinematic viscosity } (\nu) = \frac{\mu}{\rho} \\ = \frac{m^2}{s}$$

• Text Book

→ S.S. Rattan

→ Prof V.P. Singh

• Reference Book (For Teachers)

→ Shigley

→ Norton

→ Thomas Beven

• Weightage of TOM : →

GATE → Min 8 marks from TOM

ESE

↳ Prelims : (22-30) Questions of TOM
(150 Total Questions)

↳ Mains : min. 125 marks of TOM
(300 marks of Paper-II)

After Learning Concepts