



Guidance for Competitive exam

The current era is full of competition and the students should appear in number of competitive examinations. All the students should be encouraged and guided to prepare for such challenging examinations. Various departments are conducting their regular classes and various activities while keeping a track with the need of the day. The institute sometimes conduct special lectures and different competitive classes for the development of the students. Number of students derives benefit of the activities conducted by this. They acquire knowledge about how to plan and prepare tactfully for the examinations. Through interactions they recognize their true potentials and abilities to attain success. Regular classes are held for Engineering students (GATE), Pharmacy graduates (GPAT), basic science students (NET) and other courses scholars for preparation of examination like NISM, ICAR, Judiciary classes etc.

The Graduate Aptitude Test in Engineering (GATE) is an examination which primarily assesses the comprehensive understanding of various undergraduate

subjects in engineering and science, for admission into the Masters Program and recruitment by some Public Sector Companies.

The National Eligibility Test (NET), also known as UGC NET or NTA-UGC-NET, is the examination for determining the eligibility for the post of assistant professor and/or Junior Research Fellowship award in Indian universities and colleges. The Teacher Eligibility Test, known as TET, is the minimum qualification required in India for a person to be eligible for an appointment as a teacher for Classes I to VIII. The test is mandatory for teaching jobs in Indian government schools. Candidates should have obtained a Diploma in Education or Bachelor of Education (B. Ed) or completed any other prescribed teacher training programme/course.

Lower Judiciary Services – The eligibility criteria for appearing in Judicial Services Examination is a degree in LL. B and he/she can be enrolled or qualified to be enrolled as an Advocate under the Advocates' Act 1961. No experience is required and final year candidates can also appear.

NISM :Anyone who is 18 years and above can participate in the NISM exam and become a mutual fund distributor/ advisor. There is no educational qualification listed as per the Association of Mutual fund (AMFI) website. (BBA and B Com).

**Students benefited by guidance for competitive examinations offered by the
Institution during the 2017-18**

Deptt	Session	Name of the Activity	Number of students attended / participated	Page Number/ Hyperlink
B.TECH (CEA)	2017-18	Gate Preparation	26	4
B.TECH (CE)	2017-18	Preparation classes for GATE	60	9
B.TECH (ECE)	2017-18	GATE Preparation Program	9	15
B.TECH (EE)	2017-18	GATE Preparation Program	27	19
B.TECH (ME)	2017-18	GATE classes	96	26
Biotechnology	2017-18	Competitive exam Preparation	6	31
Education	2017-18	Special classes for the preparation of TET/CTET	7	37
IBM UG	2017-18	Classes of Developing Competitive Edge	15	39
IPR	2017-18	Graduate Pharmacy Aptitude Test (GPAT Classes)	24	46



Competitive Exam Report (2017-18)

Department of Computer Engineering & Applications

About GATE 2018

Graduate Aptitude Test in Engineering (GATE) is basically an examination on the comprehensive understanding of the candidates in various undergraduate subjects in Engineering/Technology/Architecture and post-graduate level subjects in Science. GATE 2018 will be conducted for 23 subjects (also referred to as “papers”) and it would be distributed over 3rd, 4th, 10th & 11th of February 2018. The GATE examination centres are spread in different cities across India, as well as, at six cities abroad. It would purely be a Computer Based Test (CBT). The GATE score would reflect the relative performance level of the candidate in a particular subject, which is quantified based on the several years of examination data. Note that the GATE 2018 score is valid for THREE YEARS from the date of announcement of the results.



Competitive Exam Report (2017-18)


Department of Computer Engineering & Applications

Notice

Date: 4 July 2017

All students of B. Tech. III year and IV year are informed that **GATE classes** are being arranged from **August 2017 onwards**. All the interested students can give their names in the department for the same till 15th July, 2017.

Programme Name	B. Tech (CSE)
Semester/Section	VII/V/All
Session	2017-18
Name of Faculty	Mr. Kailash Kumar (Assistant Prof. CEA) Mr. Jitesh Bhatia (Assiatnt Prof. CEA)
Subject	GATE 2017 for CSE
Date	1 st Aug - 2017 (Onwards)
Day/Timing	Monday – Friday (4-6 P. M.)
Venue	Room No. 425, AB-I


(Prof. Anand Singh Jalal)
Head of Department, CEA
Department of Computer Engineering & Applications
Institute of Engineering & Technology
GLA University, Mathura



Competitive Exam Report (2017-18)

Department of Computer Engineering & Applications

Syllabus

CS	Computer Science and Information Technology
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General Aptitude(GA): Common Syllabus for all papers

The GATE CS Syllabus consists of GA section which will follow the same pattern of questions and marking scheme for all the papers of GATE 2017. This section is considered to be easy and will test your English skills and general numeric ability.

Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.

Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.

Section1: Engineering Mathematics

Discrete Mathematics: Propositional and first order logic. Sets, relations, functions, partial orders and lattices.Groups. Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.

Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition.

Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.

Probability: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.

Computer Science and Information Technology

Section 2: Digital Logic

Boolean algebra. Combinational and sequential circuits.Minimization.Number representations and computer arithmetic (fixed and floating point).

Section 3: Computer Organization and Architecture



Competitive Exam Report (2017-18)

Department of Computer Engineering & Applications

Machine instructions and addressing modes. ALU, data path and control unit. Instruction pipelining. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).

Section 4: Programming and Data Structures

Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Section 5: Algorithms

Searching, sorting, hashing. Asymptotic worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph search, minimum spanning trees, shortest paths.

Section 6: Theory of Computation

Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability.

Section 7: Compiler Design

Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation.

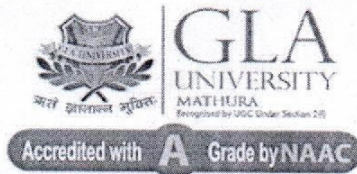
Section 8: Operating System

Processes, threads, inter-process communication, concurrency and synchronization. Deadlock. CPU scheduling. Memory management and virtual memory. File systems.

Section 9: Databases

ER model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.

Section 10: Computer Networks



Competitive Exam Report (2017-18)

Department of Computer Engineering & Applications

Concept of layering. LAN technologies (Ethernet). Flow and error control techniques, switching. IPv4/IPv6, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control. Application layer protocols (DNS, SMTP, POP, FTP, HTTP). Basics of Wi-Fi. Network security: authentication, basics of public key and private key cryptography, digital signatures and certificates, firewalls.

NOTICE FOR GATE CLASSES 2017-18



Department of Civil Engineering
GLA University, Mathura

Date: 05th Sep, 2017

Notice

This is to notify that students of Civil Engineering IV year can attend the preparatory sessions for GATE. Interested students can register their name and attend the sessions to prepare efficiently. Interested candidates should contact Mr. Anuj Goyal before 12th Sep, 2017. Schedule of the classes will be shared on/before 15th Sep, 2017

for head
Prof. Anuj Goyal
Head,
Department of Civil Engineering

Department of Civil Engineering

SCHEDULE

Schedule for GATE Classes 2017-2018			
S/N	Date	10:00-12:00	2:00-4:00
1	16-09-2017	Engineering Mechanics	Engineering Mechanics
2	23-09-2017	Soil Mechanics	Soil Mechanics
3	30-09-2017	Structural Analysis	Structural Analysis
4	07-10-2017	Construction Material	Construction Material
5	14-10-2017	Concrete Structures	Concrete Structures
6	21-10-2017	Steel Structures	Steel Structures
7	28-10-2017	Transportation Engineering	Transportation Engineering
8	04-11-2017	Engineering Survey	Engineering Survey
9	11-11-2017	Fluid Mechanics	Fluid Mechanics
10	18-11-2017	Hydrology	Hydrology
11	25-11-2017	Irrigation	Irrigation
12	02-12-2017	Water and waste water	Water and waste water
13	09-12-2017	Soil Mechanics	Soil Mechanics
14	16-12-2017	Highway Engineering	Highway Engineering
15	23-12-2017	Structural Analysis	Structural Analysis
16	30-12-2017	Steel Structures	Steel Structures
17	06-01-2018	Concrete Structures	Concrete Structures

Anis Koral

Signature of coordinator

M. A. H. HOD

Signature of HOD

GATE 2018 SYLLABUS

CE Civil Engineering

Section 2: Structural Engineering

Engineering Mechanics: System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Friction and its applications; Kinematics of point mass and rigid body; Centre of mass; Euler's equations of motion; Impulse-momentum; Energy methods; Principles of virtual work.

Solid Mechanics: Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Theories of failures; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, buckling of column, combined and direct bending stresses.

Structural Analysis: Statically determinate and indeterminate structures by force/energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames; Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.

Construction Materials and Management: Construction Materials: Structural steel - composition, material properties and behaviour; Concrete - constituents, mix design, short-term and long-term properties; Bricks and mortar; Timber; Bitumen. Construction Management: Types of construction projects; Tendering and construction contracts; Rate analysis and standard specifications; Cost estimation; Project planning and network analysis - PERT and CPM.

Concrete Structures: Working stress, Limit state and Ultimate load design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete; Analysis of beam sections at transfer and service loads.

Steel Structures: Working stress and Limit state design concepts; Design of tension and compression members, beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections, plate girders and trusses; Plastic analysis of beams and frames.

Section 3: Geotechnical Engineering

Soil Mechanics: Origin of soils, soil structure and fabric; Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one dimensional flow, Darcy's law; Seepage

through soils - two-dimensional flow, flow nets, uplift pressure, piping; Principle of effective stress, capillarity, seepage force and quicksand condition; Compaction in laboratory and field conditions; One-dimensional consolidation, time rate of consolidation; Mohr's circle, stress paths, effective and total shear strength parameters, characteristics of clays and sand.

Foundation Engineering: Sub-surface investigations - scope, drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes - finite and infinite slopes, method of slices and Bishop's method; Stress distribution in soils - Boussinesq's and Westergaard's theories, pressure bulbs; Shallow foundations - Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations - types of piles, dynamic and static formulae, load capacity of piles in sands and clays, pile load test, negative skin friction.

Section 4: Water Resources Engineering

Fluid Mechanics: Properties of fluids, fluid statics; Continuity, momentum, energy and corresponding equations; Potential flow, applications of momentum and energy equations; Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth.

Hydraulics: Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Kinematics of flow, velocity triangles; Basics of hydraulic machines, specific speed of pumps and turbines; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, slope profile, hydraulic jump, uniform flow and gradually varied flow

Hydrology: Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, flood estimation and routing, reservoir capacity, reservoir and channel routing, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's law.

Irrigation: Duty, delta, estimation of evapo-transpiration; Crop water requirements; Design of lined and unlined canals, head works, gravity dams and spillways; Design of weirs on permeable foundation; Types of irrigation systems, irrigation methods; Water logging and drainage; Canal regulatory works, cross-drainage structures, outlets and escapes.

Section 5: Environmental Engineering

Water and Waste Water: Quality standards, basic unit processes and operations for water treatment. Drinking water standards, water requirements, basic unit operations and unit processes for surface water treatment, distribution of water. Sewage and sewerage treatment, quantity and characteristics of wastewater. Primary, secondary and tertiary treatment of wastewater, effluent discharge standards. Domestic wastewater treatment, quantity of characteristics of domestic wastewater, primary and secondary treatment. Unit operations and unit processes of domestic wastewater, sludge disposal.

Air Pollution: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

Municipal Solid Wastes: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).

Noise Pollution: Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

Section 6: Transportation Engineering

Transportation Infrastructure: Highway alignment and engineering surveys; Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments; Geometric design of railway track; Airport runway length, taxiway and exit taxiway design.

Highway Pavements: Highway materials - desirable properties and quality control tests; Design of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible pavement using IRC: 37-2012; Design of rigid pavements using IRC: 58-2011; Distresses in concrete pavements.

Traffic Engineering: Traffic studies on flow, speed, travel time - delay and O-D study, PCU, peak hour factor, parking study, accident study and analysis, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Control devices, signal design by Webster's method; Types of intersections and channelization; Highway capacity and level of service of rural highways and urban roads.

Section 7: Geomatics Engineering

Principles of surveying; Errors and their adjustment; Maps - scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.

Photogrammetry - scale, flying height; Remote sensing - basics, platform and sensors, visual image interpretation; Basics of Geographical information system (GIS) and Geographical Positioning system (GPS).

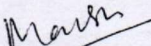


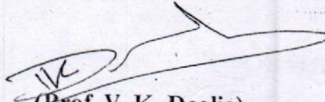
GLAU/EC/GATE/Notice/2017-18/01

Date:-19.08.2017

NOTICE

All the students of **B.Tech ECE 3rd and 4th year** are hereby informed that Dept. of ECE, GLA University is organizing classes for **GATE 2018** on every working Saturday onwards 1st October 2017 at 10:00AM in room no. 1013. Interested students can collect and submit the application form to Mr. Dheeraj Kalra by 15/09/2017 positively.


(Mr. Manish Kumar)
Co-ordinator


(Prof. V. K. Deolia)
Head, ECE

Circulate to:

1. All the concerned faculty members of ECE Department.
2. All Notice Boards

Time Table
GATE Preparation Program
Session-2017-18

GLA UNIVERSITY, MATHURA								
Department of Electronics & Communication Engg								
TIME-TABLE (GATE Preparation Class)					w.e.f. 07-10-2017			
Course: B.Tech.		Branch/Sec: EC					Session: 2017-18	
Period	1	2	3	4	5	6	7	8
Day/Time	10-12pm		12-2pm			3-4pm		
1st Saturday	Network Analysis(MK)		EDC(DK)		Lunch	Digital Electronics(Sweta)		
2nd Saturday	Control System(PCS)		Communication(AS)		Lunch	Microprocessor(AK)		
3rd Saturday	Engineering Math(SS)		EDC(DK)					
4th Saturday	Network Analysis(MK)					Control System(PCS)		

Sr. No.
1
2
3
4
5
6
7

Network Analysis
Control System
Engineering Math
EDC
Communication
Microprocessor
Digital Electronics

Subjects Name

Manish Kumar
Mr Paresch Chand
Dr Sikha
Dheeraj KALRA
Dr. Aasheesh Shukla
Mr Anjan Kumar
Ms. Sweta

verified
Anjan

Department of Electronics & Communication Engineering



Syllabus to be covered in preparation class

Section 1: Engineering Mathematics

Linear Algebra: Vector space, basis, linear dependence and independence, matrix algebra, eigenvalues and Eigen vectors, rank, solution of linear equations – existence and uniqueness.

Differential Equations: First order equations (linear and nonlinear), higher order linear differential equations, Cauchy's and Euler's equations, methods of solution using variation of parameters, complementary function and particular integral, partial differential equations, variable separable method, initial and boundary value problems.

Vector Analysis: Vectors in plane and space, vector operations, gradient, divergence and curl, Gauss's, Green's and Stoke's theorems.

Probability and Statistics: Mean, median, mode and standard deviation; combinatorial probability, probability distribution functions - binomial, Poisson, exponential and normal; Joint and conditional probability; Correlation and regression analysis.

Section 2: Networks, Signals and Systems

Network solution methods: Nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye-Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear circuits; Solution of network equations using Laplace transform;

Section 3: Electronic Devices

Energy bands in intrinsic and extrinsic silicon; Carrier transport: diffusion current, drift current, mobility and resistivity; Generation and recombination of carriers; Poisson and continuity equations; P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell; Integrated circuit fabrication process: oxidation, diffusion, ion implantation, photolithography and twin-tub CMOS process.

Section 4: Analog Circuits

Small signal equivalent circuits of diodes, BJTs and MOSFETs; Simple diode circuits: clipping, clamping and rectifiers; Single-stage BJT and MOSFET amplifiers: biasing, bias stability, mid frequency small signal analysis and frequency response; BJT and MOSFET amplifiers: multi-stage, differential, feedback, power and operational; Simple op-amp circuits

Section 5: Digital Circuits

arithmetic circuits, code converters, multiplexers, decoders and PLAs; Sequential circuits: latches and flip-flops, counters, shift-registers and finite state machines; Data converters: sample and hold circuits, ADCs and DACs; Semiconductor memories: ROM, SRAM, DRAM; 8-bit microprocessor (8085): architecture, programming, memory and I/O interfacing.

Section 6: Control Systems

Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Frequency response; RouthHurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

Section 7: Communications

Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems; Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, super heterodyne receivers, circuits for analog communications; Information theory: entropy, mutual information and channel capacity theorem.

Preparation In charge

Mr. Anjan Kumar

HOD(ECE)

Prof. Vinay Kumar Deolia

Activity Report

Department of Electronics & Communication Engineering

Name of Activity : **GATE Preparation Program**
Date and Duration : 07-10-2017 to 23-12-2017. (2.5 months)
Resource Person : In house Subject expert from ECE Department
No. of Participants : 9 Students

Event Overview

In order to help students prepare for the GATE exam, the Electronics and Communication Engineering department held a 2.5 months weekend special programme. Class began with a motivating speech by Mr Aasheesh Shukla of department of Electronics and Communication Engineering. Through his speech he explained the importance of GATE exam, a method for preparation, important topics on which questions are asked and books required for preparation. He shared the details about the syllabus of GATE and explained how to go with every subject. Key ideas in digital electronics, network analysis, analog and digital communication, analog electronics, mathematics and control systems were covered by a number of professors from the department. The lecture was attended by nine students from the ECE department, as well as a few younger faculty members.



Prof Deolia, Mr Abhay Chaturvedi and Mr Aasheesh Shukla taking lecture session
Electronics & Communication Engineering
GLA University, Mathura

Amir

Department of Electrical Engineering



Department of Electrical Engineering (Institute of Engineering & Technology)



Date: 10.05.2017

Notice

This is to inform all the students of B. Tech. EE/EN final year that department is going to conduct preparatory classes for GATE Exam. Interested students can contact Mr. Arvind Yadav to register their names before 22nd May 2017. Class schedule and other necessary details will be shared by 29th May 2017.

Mr. Arvind Yadav
GATE Coordinator
Department of Electrical Engineering

Dr. Sanjay Maurya
Incharge/HoD
Department of Electrical Engineering

Campus: 17 KM Stone, NH # 2, Mathura – Delhi Road, P.O. – Chaumuhan, Mathura – 281406 (U.P.), India
Ph:-91-5662-250889, Fax:-91-5662-241687
Head Office: 200/1, Yugal Niwas, Raman Reti, Vrindavan, Mathura – 281124 (U.P.), India
Ph:-91-565-2540553, 2540721, Fax:- 91-565-2540436

Department of Electrical Engineering

Schedule for GATE Classes 2017-18				
Sr. No.	Week	Date	8:00 AM-9:00 AM	2:00 AM-3:00 AM
1	Week - 1	4-Jun-2017	Electric Circuit	Power System
2		5-Jun-2017	Electric Circuit	Power System
3		6-Jun-2017	Electric Circuit	Power System
4		7-Jun-2017	Electric Circuit	Power System
5		8-Jun-2017	Electric Circuit	Power System
6	Week - 2	11-Jun-2017	Engg. Mathematics	Power Electronics
7		12-Jun-2017	Engg. Mathematics	Power Electronics
8		13-Jun-2017	Engg. Mathematics	Power Electronics
9		14-Jun-2017	Engg. Mathematics	Power Electronics
10		15-Jun-2017	Engg. Mathematics	Power Electronics
11	Week - 3	18-Jun-2017	Electric Machines	Control System
12		19-Jun-2017	Electric Machines	Control System
13		20-Jun-2017	Electric Machines	Control System
14		21-Jun-2017	Electric Machines	Control System
15		22-Jun-2017	Electric Machines	Control System
16	Week - 4	25-Jun-2017	Signals & Systems	Electric Machines
17		26-Jun-2017	Signals & Systems	Electric Machines
18		27-Jun-2017	Signals & Systems	Electric Machines
19		28-Jun-2017	Signals & Systems	Electric Machines
20		29-Jun-2017	Signals & Systems	Electric Machines
21	Week - 5	2-Jul-2017	Power System	EMFT

Department of Electrical Engineering

22		3-Jul-2017	Power System	EMFT
23		4-Jul-2017	Power System	EMFT
24		5-Jul-2017	Power System	EMFT
25		6-Jul-2017	Power System	EMFT
26	Week - 6	9-Jul-2017	EMFT	Electrical & Electronics Measuring Instruments
27		10-Jul-2017	EMFT	Electrical & Electronics Measuring Instruments
28		11-Jul-2017	EMFT	Electrical & Electronics Measuring Instruments
29		12-Jul-2017	EMFT	Electrical & Electronics Measuring Instruments
30		13-Jul-2017	EMFT	Electrical & Electronics Measuring Instruments
33	Week - 7	16-Jul-2017	Electrical & Electronics Measuring Instruments	Digital Electronics
34		17-Jul-2017	Electrical & Electronics Measuring Instruments	Digital Electronics
35		18-Jul-2017	Electrical & Electronics Measuring Instruments	Digital Electronics
36		19-Jul-2017	Signals & Systems	Digital Electronics
37		20-Jul-2017	Signals & Systems	Digital Electronics
38	Week - 8	23-Jul-2017	Engg. Mathematics	Digital Electronics
39		24-Jul-2017	Engg. Mathematics	Digital Electronics
40		25-Jul-2017	Engg. Mathematics	Digital Electronics
41		26-Jul-2017	Engg. Mathematics	Signals & Systems
42		27-Jul-2017	Engg. Mathematics	Signals & Systems

Department of Electrical Engineering



FACULTY ALLOTTED

Subject	Faculty
Electric Circuit	Mr Mayank Goyal, Mr. Shakti Singh Soni
Power System	Mr. Ravishankar Tiwari, Dr. Abhilash Gupta
Engineering Mathematics	Dr. Amit Kr. Saraswat
Power Electronics	Mr Vinay Kumar Dwivedi, Mr. O. P. Jaga
Electrical Machines	Mr Gaurav Gupta, Mr. Ram Naresh Mishra
Control system	MrIndresh Yadav, Mr. Ashish Kumar Shakya
Signal & System	Mr. Mayank Goyal, Mr. ApoorvaSaxena
EMFT	Mr. MukeshPushkarna, Mrs. Anjali Gupta
Electrical and Electronics Measuring instruments	Mr. Prashant Prakash, Ms. SautamiBasu
Digital Electronics	Mr. Subhash Chandra, Mr. Vikas Kumar

Department of Electrical Engineering



GATE SYLLABUS

EE: Electrical Engineering

SECTION 1: Engineering Mathematics

Linear Algebra: Matrix Algebra, Systems of linear equations, Eigenvalues, Eigenvectors.

Calculus: Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series, Vector identities, Directional derivatives, Line integral, Surface integral, Volume integral, Stokes's theorem, Gauss's theorem, Green's theorem.

Differential equations: First order equations (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's equation, Euler's equation, Initial and boundary value problems, Partial Differential Equations, Method of separation of variables.

Complex variables: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor series, Laurent series, Residue theorem, Solution integrals.

Probability and Statistics: Sampling theorems, Conditional probability, Mean, Median, Mode, Standard Deviation, Random variables, Discrete and Continuous distributions, Poisson distribution, Normal distribution, Binomial distribution, Correlation analysis, Regression analysis.

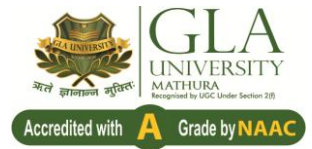
Numerical Methods: Solutions of nonlinear algebraic equations, Single and Multi-step methods for differential equations.

Transform Theory: Fourier Transform, Laplace Transform, z-Transform.

SECTION 2: Electric Circuits

Network graph, KCL, KVL, Node and Mesh analysis, Transient response of dc and ac networks, Sinusoidal steady state analysis, Resonance, Passive filters, Ideal current and voltage sources, Thevenin's theorem, Norton's theorem, Superposition

Department of Electrical Engineering



theorem, Maximum power transfer theorem, Two port networks, Three phase circuits, Power and power factor in ac circuits.

Section 3: Electromagnetic Fields

Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charged distributions, Effect of dielectric medium, Capacitance of simple configurations, Biot Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations.

Section 4: Signals and Systems

Representation of continuous and discrete-time signals, Shifting and scaling operations, Linear Time Invariant and Causal systems, Fourier series representation of continuous periodic signals, Sampling theorem, Applications of Fourier Transform, Laplace Transform and z-Transform.

Section 5: Electrical Machines

Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; **Three phase transformers:** connections, parallel operation; Auto transformer, Electromechanical energy conversion principles; **DC machines:** Separately excited, series and shunt, motoring and generating mode of operation and their characteristics, starting and speed control of dc motors; **Three phase induction motors:** Principle of operation, types, performance, torque-speed characteristics, no load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors; **Synchronous machines:** Cylindrical and salient pole machines, performance, regulation and parallel operation of generators, starting of synchronous motor, characteristics; Types of losses and efficiency calculations of electric machines.

Section 6: Power Systems

Power generation concepts, ac and dc transmission concepts, Models and performance of transmission lines and cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per unit quantities,

Department of Electrical Engineering



Bus admittance matrix, Gauss-Seidel and Newton-Raphson loadflow methods, Voltage and Frequency control, Power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over current, differential and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

Section 7 : Control Systems

Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady state analysis of linear time invariant systems, Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Stability analysis, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, State transition matrix.

Section 8 : Electrical and Electronic Measurements

Bridges and Potentiometers, Measurement of voltage, current, power, energy and power factor; Instrument transformers, Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes, Error analysis.

Section 9 : Analog and Digital Electronics

Characteristics of diodes, BJT, MOSFET; **Simple diode circuits:** clipping, clamping, rectifiers; **Amplifiers:** Biasing, Equivalent circuit and Frequency response; Oscillators and Feedback amplifiers; **Operational amplifiers:** Characteristics and applications; Simple active filters, VCOs and Timers, Combinational and Sequential logic circuits, Multiplexer, Demultiplexer, Schmitt trigger, Sample and hold circuits, A/D and D/A converters. **8085 Microprocessor:** Architecture, Programming and Interfacing.

Section 10 : Power Electronics

Characteristics of semiconductor power devices: Diode, Thyristor, Triac, GTO, MOSFET, IGBT; **DC to DC conversion:** Buck, Boost and Buck-Boost converters; Single and three phase configuration of uncontrolled rectifiers, Line commutated thyristor based converters, Bidirectional AC to DC voltage source converters, Issues of line current harmonics, Power factor, Distortion factor of AC to DC converters, Single phase and three phase inverters, Sinusoidal pulse width modulation.

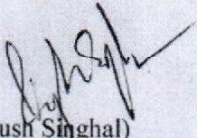


Date: 28.11.2017

GLAU/ME/GATE/18/01

NOTICE

All the students of B.Tech. ME IV year who have registered in GATE-2018 are hereby informed that their classes for GATE Preparation will be held from 02.12.2017 to 20.01.2018 as per the schedule sent to you.


(Prof. Piyush Singhal)
Head, Dept. of Mech. Engg.

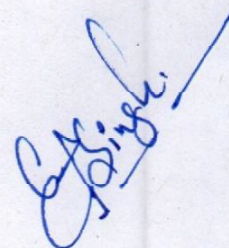
Prof. PIYUSH SINGHAL
Head, Dept. of Mech. Engg
GLA University, Mathura

Faculty Details (Area Wise) and details of lecture taken

Mechanical Department

Faculty Name	Subject	From Date	TO Date	Total lecture
Avdhesh Sharma	Basic Thermodynamics and SOM	June 1,2017	June 25, 2017	39 Lecture
Soni Tiwari	Engineering Mechanics	June 1,2017	June 11, 2017	24 lecture
Manish Rawat	Fluid Mechanics and Fluid Machinery	June 11, 2017	June 25, 2017	30 lecture
Pankaj Sonia	Machine and Machine Tools	June 25, 2017	July 03, 2017	15 Lecture
Naveen Gupta	HMT	June 25, 2017	July 09, 2017	20 Lecture
Bharat Singh	Casting Forming and Joining	July 06, 2017	July 17, 2017	16 Lecture
Aneesh Kumar	Material Science	July 20, 2017	July 27, 2017	09 Lecture
Aneesh Kumar	IC engine	Aug 21,2017	Aug 22,2017	03 Lecture
Gaurav Bhardwaj	Measurement and Meterology	July 28, 2017	July 31, 2017	06 hours
Gaurav Bhardwaj	Advance Thermodynamics	Aug 12,2017	Aug 29,2017	10 Lecture
Shashank Srivastava	Industrial Engineering	July 27, 2017	Aug 07,2017	10 Lecture
Rajkumar Sharma	Machine Design	July 31, 2017	Aug 07, 2017	10 lecture
Deepak Sharma	OR	Aug 13,2017	Aug 29,2017	09 Lecture
Faculty from Math Department	Engineering Mathematics	June 1, 2017	July 31, 2017	

- Complete syllabus covered except CAD CAM (running in current semester 7th semester), which will be covered as per GATE in the month of January only for GATE aspirants.



Section 3: Fluid Mechanics and Thermal Sciences

Fluid Mechanics: Fluid properties; fluid statics, manometry, buoyancy, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings.

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Applications:

Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat.

I.C. Engines: Air-standard Otto, Diesel and dual cycles.

Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. *Turbomachinery:* Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines.

Team Member:

1. Manish Kumar Rawat,
2. Avdhesh Sharma
3. Dr. Naveen Kumar Gupta
4. Gaurav Bhardwaj
5. Dr. Pradeep Kumar Singh

Section 4: Materials, Manufacturing and Industrial Engineering

Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Casting, Forming and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

Machining and Machine Tool Operations: Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, design of jigs and fixtures.

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly.

Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools.

Production Planning and Control: Forecasting models, aggregate production planning, scheduling, materials requirement planning.

Inventory Control: Deterministic models; safety stock inventory control systems.

Operations Research: Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM

Team Member:

1. **Shashank Srivastava,**
2. **Bharat Singh,**
3. **Aneesh Kumar**
4. **Pankaj Sonia**
5. **Deepak Sharma**

Technical Preparation as per GATE Syllabus (GATE 2018)

Section 2: Applied Mechanics and Design

Engineering Mechanics: Free-body diagrams and equilibrium; trusses and frames; virtual work; kinematics and dynamics of particles and of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations, collisions.

Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

Vibrations: Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.

Machine Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.

Team Member:

1. Raj Kumar Sharma,
2. Ashutosh P. Singh
3. Harish Kumar Sharma
4. Soni Kumari



Notice for preparatory classes for competitive exam
Department of Biotechnology
GLA University, Mathura

Date: 01 August 2017

This is to notify that students of B.Sc. and M.Sc. Biotechnology and Microbiology Final year attend the preparatory classes for competitive exam will be held in the department from 11 August 2017. The sessions will be taken by the faculty of the department of biotechnology.

Time Table / Activity Schedule

ACTIVITY NAME: NET CLASSES

Time Table M.Sc. Biotechnology II year

Event Title- Competitive Exam
Effective from (11Aug to Dec 2017)

GLA University, Mathura								
M.Sc. (Biotechnology) - III Semester, Session: 2017-18								
Class Advisor- Dr. Anjana Goel								
	10:00 to 11:00 AM	11:00 to 12:00 PM	12:00 to 1.00 PM	1:00 to 2:00 PM	2:00 to 3:00 PM	3:00 to 4:00 PM	4:00 to 5:00 PM	5:00 to 6:00 PM
Mon	Animal Biotechnology Practical (AG)			L U N C H	Animal Biotechnology (AG)	Environmental Biotechnology (AB)	Computer Lab / Lib	Plant Biotechnology (PKC)
Tue	Plant Biotechnology Practical (PKC)				Bioprocess Technology (PKC)	PDP class		Environmental Biotechnology (AB)
Wed	Environmental Biotechnology (AB)	Computer Lab / Lib	Plant Biotechnology (PKC)		Animal Biotechnology (AG)	NET Class/Library		Bioprocess Technology (PKC)
Thu	Nanotechnology Practical (PKC)		Bioprocess Technology (PKC)		Nanobiotechnology (AM)		Library	Animal Biotechnology (AG)
Fri	Environmental Biotechnology (AB)	Computer Lab / Lib	Plant Biotechnology (PKC)		Animal Biotechnology (AG)	Plant Biotechnology (PKC)	Bioprocess Technology (PKC)	Nanobiotechnology (AM)

M.Sc. Microbiology Session 2017-18

Time Table / Activity Schedule

ACTIVITY NAME: **NET CLASSES**

Time Table M.Sc. Microbiology II year

Time Table for

Event Title- Competitive Exam Effective from (11Aug to Dec 2017)

	10:00 to 11:00 AM	11:00 to 12:00 PM	12:00 to 1.00 PM	1:00 to 2:00 PM	2:00 to 3:00 PM	3:00 to 4:00 PM	4:00 to 5:00 PM	5:00 to 6:00 PM
Mon	Microbial Genomics and Proteomics (AS)	Library	Advance Immunology (AKB)	L U N C H	NET Class/Library		FT and Industrial Microbiology (GP)	Food, Dairy and Agricultural Microbiology (AB)
Tue	Advance Immunology (AKB)	NET Class/Library			computer Lab/Lib		Microbial Genomics and Proteomics (AS)	FT and Industrial Microbiology (GP)
Wed	Nanotechnology Practical (PKC)		Advance Immunology (AKB)		FT and Industrial Microbiology (GP)	Computer Lab / Lib	Food, Dairy and Agricultural Microbiology (AB)	Microbial Genomics and Proteomics (AS)
Thu	Food, Dairy, Agricultural Microbiology Lab (AB) (Micro Lab)				Food, Dairy and Agricultural Microbiology (AB)	Library	Microbial Genomics and Proteomics (AS)	Nanobiotechnology (AM)
Fri	Fermentation, Microbial Genomics & Proteomics Lab (AS)				Nanobiotechnology (AM)	Food, Dairy and Agricultural Microbiology (AB)	Advance Immunology (AKB)	Nanobiotechnology (AM)

Time Table / Activity Schedule

ACTIVITY NAME: COMPETITIVE EXAM PREPARATION CLASSES

Time Table B.Sc. (Hons.) Biotechnology III year V Semester

Time Table

Event Title- Competitive Exam

Effective from (11Aug to Dec 2017)

GLA University, Mathura							
B.Sc. (Hons. Biotechnology) - V Semester, Session: 2017-18							
Class Advisor- Mr. Pradeep Choudhary							
	10:00 to 11:00 AM	11:00 to 12:00 PM	12:00 to 1.00 PM	1:00 to 2:00 PM	2:00 to 3:00 PM	3:00 to 4:00 PM	4:00 to 5:00 PM
Mon	Immunology (AKB)	Plant Biotechnology (PKC)	Food & Ind. Biotech. (GP)	L U N C H	Batch- B - Immunology Lab (GP) Batch-A - RDT Lab (NW)		RDT (NW)
Tue	Food & Ind. Biotech. (GP)	Immunology (AKB)	Biochemistry (VK)		Batch- A - Immunology Lab (GP) Batch-B - RDT Lab (NW)		Plant Biotechnology (PKC)
Wed	Immunology (AKB)	competitive exam class	RDT (NW)		Plant Biotechnology (PKC)	competitive exam class	Food & Ind. Biotech. (GP)
Thu	Plant Biotechnology (PKC)	Biochemistry (VK)	Immunology (AKB)		Batch-A- Biochem Lab (VK) Batch- B - Plant Biotech Lab (JS)		Biochemistry (VK)
Fri	RDT (NW)	Food & Ind. Biotech. (GP)	RDT (NW)		Batch-B - Biochem Lab (VK) Batch-A - Plant Biotech Lab (JS)		Biochemistry (VK)

Syllabus for Competitive Exam
Name of Activity: Competitive Exam
Nature of Activity: NET GATE PREPRATION
Duration of Activity: 6 Months

Content for competitive exam syllabus
<p>General Biotechnology</p> <p>Biochemistry: Biomolecules-structure and functions; Biological membranes, structure, action potential and transport processes; Enzymes- classification, kinetics, and mechanism of action; Basic concepts and designs of metabolism (carbohydrates, lipids, amino acids and nucleic acids) photosynthesis, respiration and electron transport chain; Bioenergetics</p> <p>Microbiology: Viruses- structure and classification; Microbial classification and diversity (bacterial, algal and fungal); Methods in microbiology; Microbial growth and nutrition; Aerobic and anaerobic respiration; Nitrogen fixation; Microbial diseases and host-pathogen interaction</p> <p>Cell Biology: Prokaryotic and eukaryotic cell structure; Cell cycle and cell growth control; Cell-Cell Communication, Cell signaling and signal transduction</p> <p>Molecular Biology and Genetics: Molecular structure of genes and chromosomes; Mutations and mutagenesis; Nucleic acid replication, transcription, translation and their regulatory mechanisms in prokaryotes and eukaryotes; Mendelian inheritance; Gene interaction; Complementation; Linkage, recombination and chromosome mapping; Extrachromosomal inheritance; Microbial genetics (plasmids, transformation, transduction, conjugation)</p> <p>Analytical Techniques: Principles of microscopy-light, electron, fluorescent and confocal; Centrifugation- high speed and ultra; Principles of spectroscopy-UV, visible, CD, IR, FTIR, Raman, MS,NMR; Principles of chromatography- ion exchange, gel filtration, hydrophobic interaction, affinity, GC,HPLC, FPLC; Electrophoresis; Microarray</p> <p>Immunology: History of Immunology; Innate, humoral and cell mediated immunity; Antigen; Antibody structure and function; Molecular basis of antibody diversity; Synthesis of antibody and secretion; Antigen-antibody reaction; Complement; Primary and secondary lymphoid organ; B and T cells and macrophages; Major histocompatibility complex (MHC); Antigen processing and presentation; Polyclonal and monoclonal antibody; Bioinformatics: Major bioinformatics resources and search tools; Sequence and structure databases; Sequence analysis (biomolecular sequence file formats, scoring matrices, sequence alignment, phylogeny); Data mining and analytical tools for</p>

Date: 03.10.2017

NOTICE

This is to inform to all **B.Ed. students that** Faculty of Education going to conduct special classes for the preparation of **TET/CTET**, on every Saturday, from **07.10.2017 to 28-10-2017**. Interested students may contact coordinator Mr. Hem Kumar for details information before **05-10-2017**.



(Prof. Kavita Varma)
Principal,
Faculty of Education,
GLA University



Lecture Plan

DATE: 07-10-2017 to 28-10-2017

Venue: Room No - 412 (Block-9)

DAY	DATE	TIMING	TOPIC NAME	Resource Person
1	07/10/2017	10:00 AM -12:00 PM	Child Development	Mrs.Jyoti Sharma
	07/10/2017	01:00 PM -03:00 PM	Child Development	Mrs.Jyoti Sharma
2	14/10/2017	10:00 AM -12:00 PM	Learning	Mr. Hem Kumar
	14/10/2017	01:00 PM -03:00 PM	Motivation & Adjustment	Mr. Hem Kumar
3	21/10/2017	10:00 AM -12:00 PM	Personality	Mrs.Preeti Verma
	21/10/2017	01:00 PM -03:00 PM	Intelligence	Mrs.Preeti Verma
4	28/10/2017	10:00 AM -12:00 PM	RTE-09,NCF-05	Dr. Amit Kumar Kaushik
	28/10/2017	01:00 PM -03:00 PM	Measurement & Evaluation	Dr. Amit Kumar Kaushik

**SPECIAL CLASSES ON
REASONING AND
QUANTS**

Institute of Business Management

GLA University, Mathura



Date: 01-Aug-2017

GLAIBM/Office/3088/2017

Notice

All the students of BBA & B. Com-H IIIrd year are hereby intimated that university is planning to conduct **Special Classes of Reasoning & Quants** (4pm to 6pm) on Saturdays in Ground Floor Conference Hall A-B V.

All the students of above mentioned courses are required to attend the same.

A handwritten signature in blue ink, appearing to be "S Dhamija", is written above the name.

(Prof. Somesh Dhamija)

Head, IBM-UG

SPECIAL CLASSES ON REASONING AND QUANTS-V

Semester V

Quantitative Aptitude:

Real Function-I:

Definition of Functions, Domain, Range, Codomain, Problems on finding Domain and Range of functions, Classification of functions on the basis of Domain and Codomain, Defining inverse of function .

Reasoning Ability: Selections: Problems related to selection of people and group of people from large groups on predefined set of conditions. **Quantitative Aptitude: Geometry &**

Mensuration: Geometry: Different types of triangles and their properties, Square, rectangle, parallelogram, trapezium, Rhombus, Circle and Cyclic Quadrilateral.



(SPECIAL CLASSES ON REASONING AND QUANTS)

**Institute of Business Management
GLA University, Mathura**



Date: 02-Jan-2018

GLAIBM/Office/3091/2018

Notice

All the students of **BBA & B. Com-H IIIrd** year are hereby intimated that university is planning to conduct **Special Classes of Reasoning & Quants** (4pm to 6pm) on Saturdays in Ground Floor Conference Hall A-B V.

All the students of above mentioned courses are required to attend the same.

(Prof. Somesh Dhamija)

Head, IBM-UG

SPECIAL CLASSES ON REASONING AND QUANTS-VI

Semester VI

Quantitative Aptitude:Simplification & Approximation:Simplification using VBODMAS Rule, Simplification based on Decimals, Simplification of Continued Fractions, Simplification of the expression based on Algebraic Formulae and Identities, Simplification of statement based Question. **Reasoning Ability:CUBES:** Cutting of Cubes, Painting of Sides of Cubes, Counting cubes of identical colour faces **Quantitative Aptitude:Alphabet and Number Series:** Problems related to Sequencing of Alphabets, Finding out Next or Previous number in Series.



(SPECIAL CLASSES ON REASONING AND QUANTS)



GLA
UNIVERSITY
MATHURA
Recognised by UGC Under Section 2(f)

GLA University, Mathura

Institute of Pharmaceutical Research

IPR/Notice-CE/2017/1162a

NOTICE

Date: 5/09/2017

The **GPAT Classes for B.Pharm. students** would commence from September 9, 2017 on every Saturday from 11:00 A.M.

Students, please note and be particular to attend.

Prof. Meenakshi Bajpai

(Head of Department)

Head

Institute of Pharmaceutical Research
GLA University, Mathura (UP)

GRADUATE PHARMACY APTITUDE TEST (GPAT) **SYLLABUS**

SUBJECTS

- Physical Chemistry
- Physical Pharmacy
- Organic Chemistry
- Pharmaceutical Chemistry
- Pharmaceutics
- Pharmacology
- Pharmacognosy
- Pharmaceutical Analysis
- Biochemistry
- Biotechnology
- Microbiology
- Pathophysiology
- Biopharmaceutics and Pharmacokinetics
- Clinical Pharmacy and Therapeutics
- Human Anatomy and Physiology
- Pharmaceutical Engineering
- Pharmaceutical Management
- Pharmaceutical Jurisprudence
- Dispensing and Hospital Pharmacy

***Note:** The selected topics were discussed by respective faculty members in the above subjects.*