



# GURUGRAM UNIVERSITY, GURUGRAM

(A State Govt. University established under Haryana Act 17 of 2017)

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## **NOTICE TO ADVT. NO. ET- 05/2022**

**Subject : Syllabus for Written test for the post of Assistant Professor (on contract basis) to be engaged vide Advt. no. ET-05/2022.**

Reference : The Advt. No. ET-05/2022 dt. 29.06.2022 to invite applicants for engagement as Assistant Professor (on contract basis) in various disciplines.

In continuation with the above referred advertisement, all candidates are hereby informed that the syllabus for the written test for written test for various subjects / disciplines is as follows :-

Sr.No.	Discipline	Syllabus	Sr.No.	Discipline	Syllabus
1	Pharmaceutical Sciences	As per latest GPAT	11	Law	As per latest NET
2	Computer Engg.	As per latest GATE	12	Physics	As per latest NET
3	Electronics Engg.	As per latest GATE	13	Chemistry	As per latest NET
4	Management	As per latest NET	14	Mathematics	As per latest NET
5	Commerce	As per latest NET	15	Political Science	As per latest NET
6	English	As per latest NET	16	Neurosciences	As per latest NET
7	Media Studies	As per latest NET	17	Physiotherapy	Attached at annexure- A.
8	Public Administration	As per latest NET	18	Animation & Multimedia	Attached at annexure- B.
9	Psychology	As per latest NET			
10	Economics	As per latest NET			

Further informed that the written test will comprise of 50 multiple choice questions having one and only one correct option. There will be 50 MCQs to be attempted in 01 hrs. The written test will be conducted for the shortlisted applicants and it will be mandatory to qualify i.e. to secure a minimum of 50% marks (47.5% for SC/ST/PWD category) in this written test to be called for Presentation/Interview.

There will negative marking of ¼ mark for each incorrect answer. The schedule of written test will be displayed on the University website shortly. All interested applicants are advised to keep visiting University website for updates, if any.

Sd/-

**Deputy Registrar (Estt)  
For Registrar**

Endst. No. GUG/Estt/2022/2514-2516

Dated: **21.07.2022**

A copy of the above is forwarded to the following for kind information and necessary action:-

1. The Deputy Registrar (I.T) for uploading on university website.
2. OSD to VC (for kind information of the Vice-Chancellor), GUG.
3. PA to Registrar (for kind information of the Registrar), GUG.

Sd/-

**Deputy Registrar (Estt)  
For Registrar**

## Annexure- A

### **Syllabus for Assistant Professor (on contract basis) in Physiotherapy**

1. **Human Anatomy:** Anatomy of Upper Limb, Lower Limb, Thorax, Abdomen, Back, Head, Face, Neck and Brain.
2. **Human Physiology:** Physiology of Nervous system, Muscular System, Reproductive system, Respiratory System, Cardiovascular system, GIT, Endocrine system, Sensory System, Applied Physiology and Environmental physiology.
3. **Clinical Biochemistry:** Cell, Bio-Physics, Macromolecules and Micromolecules, Carbohydrate, Lipids, Proteins, Nucleic Acid, Enzymes, Biological oxidation & Bioenergetics, Clinical significance of biochemical Investigations.
4. **Fundamental and Application of Exercise Therapy:** Movements, ROM, Limb Length Measurement, Relaxation Technique, Suspension Therapy, Hydrotherapy, Therapeutic Gymnasium, General Fitness Exercise, Group Exercise & Recreational Activities, YOGA, therapeutic exercise, Co- ordination & Balance exercise, Technique to Improve Pulmonary Function, Manipulation, Mobilization and PNF.
5. **Fundamental and Application of Electro Therapy:** physics & Basic Electrical Components, Cellular Biophysics, Electromagnetic Spectrum, Fundamentals of Low Frequency & High Frequency Current, Magnetism, Devices (Condenser, Multimeter, Voltmeter and Transformer.
6. **Fundamentals Of Pharmacology:** Fundamental of Pharmacology, Pharmacology of Peripheral nervous system, Central Nervous system, Respiratory System, Endocrine System, GIT Pharmacology, Autacoids Pharmacology, Chemotherapy and Cardiovascular system.
7. **Biomechanics and Kinesiology and Applied Physiotherapy:** Mechanics, Joint and Muscles Structure and Function, Vertebral Column,(Shoulder, Elbow, Wrist & Hand) Complex, (Hip, Knee, Ankle and Foot) Complex , Posture and Gait.

Contd..2..

8. **Community Based Rehabilitation:** Disability and Rehabilitation, Bioengineering, Social and Vocational Rehabilitation, Administration and Organization.
9. **Bio-statistics and Research Methodology:** Introduction to research and biostatistics, Description and inferential statistics, Methods of collection and classification, Tabulation and presentation of data, Central Tendency, Co-relation and Regression, Types of sampling Tests, Probability, Binomial distribution, poisson distribution, Normal distribution, One way ANOVA, Two Way ANOVA, Test of significance (t, chi square, f, z), Non parametric tests, Simple statistical analysis using available software, Basic research concepts: Validity and reliability, Design instrumentation and analysis of Qualitative & Quantitative research, how to write research proposal & critique research.
10. **Clinical and physiotherapy management in neurological condition:** Neurological assessment, Neurodiagnosis, Deferential Diagnosis in Neurological condition, Congenital & Heredity Disorders, Head Injury, Disorder Of Spinal Cord and Cauda Equina, Disorders of Cranial & Peripheral Nerve, Cerebral Disorders, Demylinating Disorders, Deficiency And Nutritional Disorders, Stroke, Infectious Disorders, Vestibular System, Extra Pyramidal Disorder, epilepsy, Dementia and Alzheimer Disease.
11. **Clinical and Physiotherapy Management in Cardiopulmonary Condition:** Cardiopulmonary Assessment, Diagnostics Test, Deferential Diagnosis, Cardiology, Pulmonology and Cardio-thoracic surgery.
12. **Clinical and physiotherapy management in musculoskeletal condition :** Orthopedic Assessment , Special Test, Diagnosis, General Orthopedics, Regional Orthopedics, Traumatology, Orthopedic Surgeries, Amputation and Geriatric Care.
13. **Clinical and physiotherapy management in sports condition :** Sports Medicine Diagnosis, Cyriax Concept, Adjunct to Injury Recovery, Exercise Physiology (Physical Training, Applied Work Physiology, Fatigue, Nutrition & Physical Performance and Factory Affecting Performance).

## **Annexure- B**

### **Syllabus for Assistant Professor (on contract basis) in Animation and Multimedia**

**Unit-1:** Elements of Art: - Line - Colour - Shape - Texture - Space – Form – Value, Colour Theory: Primary & Secondary Colour, & Territory colour, warm & cool colour, psychological aspect of colour. Principles of Art: Unity, Balance, Rhythm, Contrast, Dominance, Movement, and Pattern. Introduction to character design: Shape language- circle, triangle and circle, drawing from basic shapes. Perspective Drawing (Introduction to Perspective - Different types of Perspective- Different types of Eye Levels), Visual Hierarchy, Line type, Line Weight

**Unit-2:** 12 Principles of Animation: Squash and stretch anticipation staging straight ahead action and pose to pose follow through and overlapping action slow-in and slow-out, arc, secondary action, timing, exaggeration, solid drawing, appeal Fundamental of graphics design, graphic design for digital and print.

**Unit-3:** Fundamental of photography, different type of lenses, different types of photography, editing tool like photoshop and lightroom. Introducing Digital Video Introducing Digital Video Characteristics of video- Interlacing and progressive scanning, Digital video-sampling, Quantization, Luminance and Chrominance, Colour Models, Colour Depth, Video Compression Rational for compression. Basic principles of video editing.

**Unit-4:** Introduction to 3D, Interface of 3D Max, Basics of 3D Max Modeling, Exporting, Using the menus.Geometry, subobjects, Extruding, welding, bridging etc. Recognizing the workspaces. Different types of modelling, Nurves spline and poly modelling, different of modifiers, element of polygon. Low and high poly model, Curve editor, Trex editor, timeline, different types of constraint, deformers, use of rigging, use IF/FK, use of skinning.