

Pro-Forma for Display of Information on the College Website

The Following Details are mandatory to be filled up by the Medical College and displayed on their website (once entered should be updated without removal of data)

Department wise list of Faculty Members

Department	Name of the faculty Qualification IMR Number	Current Designation & Date of promotion	Nature of employment Regular/ permanent or contract/ outsourced	Details of Service in the Last 5 years					Number of lectures taken/year. Topics covered
				1	2	3	4	5	
Physiology	Prof. Md. Iqbal Alam PhD. PHY-2103655	Professor & HOD 06-12-2016	Permanent	Prof.	Prof.	Prof.	Prof.	Prof.	1. Introduction – Physiology 2. Transport across cell membrane-I 3. Transport across cell membrane-II 4. Intercellular communication 5. Resting membrane potential 6. RMG, Generator Potential 7. Action Potential 8. Compound A.P 9. Action potential –properties 10. Homeostasis – 1 11. Homeostasis – 2 12. Introduction- Respiration 13. Tracheo-bronchial tree, and Dead Space 14. Elastic properties of lungs, compliance 15. Elastic properties of chest wall, Compliance, Surface tension, 16. Relationship of Lung and chest wall 17. Works of breathing, Mechanics of breathing 18. Lung volumes/ capacities 19. Properties of gases, Laws of gases 20. Transport of O ₂ 21. Transport of CO ₂

									22. Control of Respiration-Neural 23. Chemical Control, Abnormal respiration 24. Hypoxia, High Altitude 25. Decompression sickness, Nitrogen Narcosis, SCUBA diving 26. Respiratory function test 27. Renal Physiology-Introduction 28. Blood supply –Kidney 29. JGA, Glomeruli 30. Glomerulus-functions 31. Factor affecting GFR 32. Renal Clearance 33. Tubular Reabsorption and secretion 34. Reabsorption and secretion in renal tubules 35. Reabsorptions of organic substances-glucose/amino acids 36. Reabsorptions of organic substances-urea, uric acid etc, urea cycle 37. Reabsorptions of inorganic substances, Renal handling of sodium ions 38. Reabsorptions of calcium and other cations 39. Tubular secretion, PAH 40. Water transport- CCM/CCE 41. Micturition reflex, Control, Disease 42. Acid base Balance 43. Non excretory functions of kidney, Renal Function test 44. Motor System- Introduction 45. Reflex, Reflex action, Properties and classification 46. Stretch Reflex, Muscle spindle 47. Motor cortex, Motor tract 48. Extrapyramidal tract and Pyramidal tract, UMNL & LMNL
	Dr. Shikha Gautam MBBS, MD PHY-2305175	Associate Professor & 08-01-2021	Contractual	AP	AP	AP	Assoc. Prof.	Assoc. Prof.	1. Introduction to homeostasis and milieu interieur 2. Calculation of gain & regulation factor 3. G proteins and second messenger

									systems 4. Pathophysiology of Apoptosis 5. Growth Hormone – function 6. Growth Hormone – Acromegaly & Gigantism 7. Hormones of posterior pituitary gland 8. Synthesis of thyroid hormone & functions 9. Hypothyroidism & Hyperthyroidism 10. Thyroid function tests 11. Adrenal medullary hormones & action 12. Synthesis of hormones of adrenal cortex 13. Pathophysiology of Cushing syndrome 14. Conn syndrome & Addison diseases 15. RBC – structure, function & normal values 16. Hemoglobin & hemoglobinopathies 17. Erythropoiesis 18. Classification & pathophysiology of anemia 19. Fe deficiency vitamin B ₁₂ & FA deficiency anemia 20. Breakdown of RBC & metabolism 21. Pathophysiology of jaundice 22. Male reproductive system : synthesis of testosterone & function 23. Male reproductive system : associated abnormalities 24. Special sense: Ear : functional anatomy of Ear 25. Structure & functioning of middle ear & internal ear 26. Hearing pathway & deafness 27. Tuning fork tests & audiometry
	Dr. Salamah P. Imteyaz MBBS, MD PHY-257285	Assistant Professor & 08-01-2021	Contractual	Demonstrator	Demonstrator	Demonstrator	AP	AP	1. Nerve – Muscle Physiology 2. Nerve Fibre 3. Properties of nerve 4. Skeletal muscle – 1 5. Skeletal muscle – 2 6. Skeletal muscle – 3 7. Smooth muscle

									8. CVS – Introduction 9. Conducting system of Heart 10. Cardiac output – 1 11. Cardiac output – 2 12. Heart Failure 13. Shock 14. Pancreas 15. Liver 16. GI motility – 1 17. GI motility – 2 18. GI motility – 3 19. Hypothalamus – 1 20. Hypothalamus – 2 21. CSF 22. Basal ganglia – 1 23. Basal ganglia – 2 24. Cerebellum 25. Smell 26. Taste
	Dr. Amina S. Zaidi MBBS, MD	Assistant Professor 11-02-2021	Contractual	SR	SR	SR	AP	AP	1. Structure & Function of cell 2. Body fluid compartments 3. Intracellular and ECE and edema 4. Types of muscle fibres and energy sources 5. RBC – 1 6. RBC – 2 7. Plasma Proteins 8. Platelet 9. Coagulation 10. Anticlotting mechanism 11. Immunity – 1 12. Immunity – 2 13. Immunity – 3 14. GIT – Introduction 15. Salivary secretion 16. Gastric secretion – 1 17. Gastric secretion – 2 18. Gastric secretion – 3 19. Peptic ulcer – 1 20. Peptic ulcer – 2 21. GI hormone 22. Sensory receptor 23. Ascending pathway

									24. Pain 25. Sleep & EEG – 1 26. Sleep & EEG – 2 27. Thalamus 28. Limbic System 29. Female reproduction – Introduction 30. Oogenesis – 1 31. Oogenesis – 2 32. Mensuration cycle – 1 33. Mensuration cycle – 2
	Dr. Bhawna Mattoo MBBS, MD	Assistant Professor 15-02-2021	Contractual	SR	SR	SR	AP	AP	1. Nerve injury & applied aspects 2. Neuromuscular Junction 3. Cardiac Muscle – 1 4. Cardiac Muscle – 2 5. Autonomic N. S. – 2 6. ECG – Normal – 1 7. ECG – Normal – 2 8. ECG – Abnormal rhythms – 3 9. ECG – in Myocardial Infraction – 4 10. Coronary circulation 11. Regulation of BP – 1 12. Regulation of BP – 2 13. Regulation of BP – 3 14. Principle of hemodynamics 15. Introduction to Endocrinology – 1 16. Introduction to Endocrinology – 2 17. Calcium & Phosphate Metabolism : Introduction 18. Calcium & Phosphate Metabolism : Regulation 19. Bone Physiology 20. Pancreatic Hormones – Introduction 21. Pancreatic Hormones – Insulin & Glucagon – 1 22. Pancreatic Hormones – Insulin & Glucagon – 2 23. Pancreatic Hormones – Regulation of Metabolism & applied aspects 24. Eye : Optics of vision 25. Eye : Functional Anatomy 26. Eye : Photo transduction 27. Eye : Colour Vision 28. Eye : Cortical Processing

									29. Eye : Applied 30. Motor System – Applied aspects
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- N.B.
1. Publications by faculty should be attached as annexure.
 2. Publications should be quoted in Vancouver referencing style.
 3. Medical Educator Training/ research methodology and dates

*To be updated every new session/academic year

**To be updated on 1st October each year

**ANNEXUR
E-1**

S. No.	Faculty Name	Publication in Vancouver referencing style. (Last five years)	Pubmed Indexed Yes/No	Scopus
1.	Prof (Dr) Md Iqbal Alam	1. Muneeb Qadir, Saumya Bhagat, Huma Quasimi, Intzar Ali, Afreen Khan, Mairaj Ahmed Ansari, Md Iqbal Alam (2022) "SARC COV-2 and inflammation: Its impact on the casrdiovascular system." Impress cardiology & cardiovascular medicine. 2. Saumya Bhagat , Indranil Biswas , Md Iqbal Alam , Madiha Khan , Gausal A. Khan (2021) Key role of Extracellular RNA in hypoxic stress induced myocardial injury PLOS ONE https://doi.org/10.1371/journal.pone.0260835 December 9, 2021 3. COVID-19 pandemic and vaccines update on challenges and resolutions (2021) Wajihul H.Khan, Zohra Hashmi², Aditya Goel, Razi Ahmad, Nida Khan, Md. Iqbal Alam, Faheem Ahmed and Mairaj A. Ansari · Front. Cell. Infect. Microbiol. doi: 10.3389/fcimb.2021.690621 4. Mohd. Salman, Pooja Sharma, Md. Iqbal Alam, Heena Tabassum and Suhel Parvez (2021), Naringenin mitigates behavioral alterations and provides neuroprotection against 3-nitropropinoic acid induced Huntington disease like symptoms in rats. Nutritional Neuroscience, April 15, 2021 5. Shikha Gautam, Salamah Imtiyaz and Md Iqbal Alam (2021) COVID-19 Pandemic: Assessment of stress and the perception of E - learning amongst first year undergraduate medical students, Journal of Clinical and Diagnostic Research, 01,March, 2021 6. Jasjit S. Suri, Luca Saba , Mohit Agarwal , Anubhav Patrick , Anudeep Puvvula , Suneet K. Gupta , Alessandro Carriero , John R Laird , George D Kitas , Amer M. Johri , Antonella Balestrieri , Zeno Falaschi , Alessio Paschè , Vijay Viswanathan , Ayman El-Baz , Iqbal Alam, Abhinav Jain, Subbaram Naidu , Ronald Oberleitner , Narendra N Khanna, Arindam Bit , Mostafa Fatemi , Azra Alizad (2021) Six Artificial Intelligence Paradigms for Tissue Characterization and Classification of Non-COVID-19 Pneumonia against COVID-19 Pneumonia in Computed Tomography Lungs. International Journal of Computer Assisted Radiology and Surgery February 03, 2021 (https://doi.org/10.1007/s11548-021-02317-0).	No Yes Yes Yes No Yes Yes Yes	Yes No No No Yes No No No

	7. Md Iqbal Alam (2020) Emerging Role of Nitric Oxide on the occurrence of Metabolic Syndrome and cardiovascular disease. BLDE Journal of Health Sciences, Volume 5, December 2020, (DOI 10.4103/2468-838X.303752) 8. Kaushal Chakraborty, Md Iqbal Alam, Gausal Azam Khan (2020) Vascular disease and role of Nitric oxide. International Journal of Environment and Health Sciences, Vol 2, 99-114 9. Md. Iqbal Alam, Ojha, R., Alam A., Quasimi, H and Alam, O (2019) Therapeutic potential of snake venoms as antimicrobial agents. Frontiers in Drug, Chemistry and Clinical Research 2, 1-9. 10. Abhirup Bandyopadhyay, Saumaya Bhagat, Iqbal Alam, Gausal Khan (2019) Sterile inflammatory molecules are significantly down regulated by magnesium sulfate treatment in preeclampsia. <i>Placenta</i>, Volume 83, August 2019, Page e56, (https://doi.org/10.1016/j.placenta.2019.06.185) 11. Shubhro Chakrabartty, Md Iqbal Alam, Saumya Bhagat, Alam A, Gausal A Khan, Neha Dhyani, M. Sarwar Alam (2019) Inhibition of snake venom induced sterile inflammation and PLA₂ activity by Titanium dioxide Nanoparticles. Scientific Reports, 01 August, 2019 12. Gausal Khan, Saumya Bhagat and M.Iqbal Alam (2019) PGE2 induced migration of human brain endothelial cell is mediated through Protein Kinase A in cooperation of EP receptors. Journal of Leukocyte Biology, 1-13,2019 13. Sera Gonelevue, Abhirup Bandyopadhyay, Saumya Bhagat, Md Iqbal Alam and Gausal A. Khan (2018) Sterile Inflammatory Role of High Mobility Group Box 1 Protein: Biological Functions and Involvement in Disease, Journal of Vasc. Res.55:244–254 14. Pallavi Goel, Ozair Alam , Mohd Javed Naim , Farah Nawaz , Muzaffar Iqbal , Md Iqbal Alam (2018), Recent advancement of piperidine moiety in treatment of cancer- A review, European Journal of Medicinal Chemistry 157, 480-502 15. Abhirup Bandhapadhaya, William May, Saumaya Bhagat, Iqbal Alam, Gausal Khan (2018) Sterile inflammatory molecules: Potential biomarkers for preeclampsia, Placenta 69 ,e12 - e93	No No Yes Yes Yes Yes Yes Yes Yes	Yes Yes No No No No No No No
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		16. G. Khan; I. Alam; S. Bhagat (2018) Extracellular RNA is the novel player in hypoxic Stress induced myocardial injury, Cardiovascular Research Supplements 114, S72–S85 17. Mohd. Javed Naim, Ozair Alam, Md. Jahangir Alam, Md. Quamrul Hassan, Nadeem Siddiqui, V.G.M. Naidu and Md. Iqbal Alam (2018) Design, synthesis and molecular docking of thiazolidinedione based benzene sulphonamide derivatives containing pyrazole core as potential anti-diabetic agents. Bio-organic chemistry 76, 98-112	Yes	No
	Dr. Shikha Gautam	1. Gautam S, Imteyaz SP, Alam MI. COVID-19 Pandemic: Assessment of Stress and Perception of E-Learning amongst First Year Undergraduate Medical Students. <i>Journal of Clinical and Diagnostic Research</i>. 2021 Mar, Vol-15(3): JC01-JC04 2. Gautam S, Singh K, Garg R. Evaluation of academic stress and its effect on visual reaction time in undergraduate medical students. <i>J of Med Sci and Res</i> 2018;6(5):388-91. 3. Gautam S, Garg R, Tripathi Y. A study of distribution and prevalence of anaemia in school going children of Ghaziabad. <i>J of Med Sci and Res</i> 2018;6(13):1170-74. 4. Singh K, Garg R, Gautam S, Tripathi Y. To study the relation between blood groups, prehypertension and BMI, <i>International Journal of Science and Research</i> 2018;7(11):1506-09.	No No No No	Yes Yes Yes Yes
	Dr. Salamah P Imteyaz	1. Salamah Parveen Imteyaz, Bijli Nanda, Manisha Jindal, Mohammad Jaseem Hassan. Characteristic of anemia in hypothyroid pregnant females: A Case Control Study. <i>Journal of Clinical and Diagnostic Research</i> 2020;14(7): CC05-CC08 2. Shikha Gautam, Salamah Parveen Imteyaz, Md. Iqbal Alam. COVID-19 Pandemic: Assessment of stress and the perception of E – learning amongst first year undergraduate medical students. <i>Journal of Clinical and Diagnostic Research</i> (Accepted for Publication) 3. M.J. Hassan, Maheeb Rahman, Salamah Parveen Imteyaz, S khan, N Ahmad, S. Jetley. A clinical and Hematological profile in Geriatric patients with special emphasis on morphological and etiological classification of anemia in these patients- A pilot study. <i>J K Science</i> 2020;22(4):187-92	No No No	Yes Yes Yes
	Dr. Amina S Zaidi	1. Amina Sultan Zaidi, P N Singh, Meenakshi Gupta, “<i>Impact of long versus short duration</i>	Yes	Yes

		<i>diabetes on sensory nerve conduction velocity in type 2 diabetes mellitus</i>". Journal of clinical diagnostic and research. 2018. DOI:10.7860/JCDR/2018/35393.11930. 2. Amina Sultan Zaidi, P N Singh, Meenakshi Gupta, "<i>Effect of duration of diabetes on heart rate variability in type 2 diabetes mellitus</i>". International journal of current research and review. 2018. DOI: 10.7324/IJCRR.2018.1068. 3. Amina Sultan Zaidi, Meenakshi Gupta "<i>Association of cardiac autonomic neuropathy and peripheral neuropathy in type 2 diabetes mellitus</i>" International journal of scientific research. 2018. volume-7 issue-11 November-2018 print issn no 2277 – 8179. 4. 2 citations of papers published	Yes No	Yes Yes
	Dr. Bhawna Mattoo	1. Tanwar S, Mattoo B, Kumar U, Dada R, Bhatia R. Does human serotonin-1A receptor polymorphism (rs6295) code for pain and associated symptoms in fibromyalgia syndrome?. Reumatismo [Internet]. 2021Apr.19 [cited 2021Jul.15];73(1):24-1. 2. Joshi I, Mattoo B, Mohan VK, Bhatia R. Aberrant pain modulation in trigeminal neuralgia patients. Journal of Basic and Clinical Physiology and Pharmacology. 2020 Jul 10;1(ahead-of-print). 3. Kumar A, Mattoo B, Bhatia R, Kumaran S, Bhatia R. Neuronavigation based 10 sessions of repetitive transcranial magnetic stimulation therapy in chronic migraine: an exploratory study. Neurological Sciences. 2020 Jun 15:1-9. 4. Tanwar S, Mattoo B, Kumar U, Bhatia R. Repetitive transcranial magnetic stimulation of the prefrontal cortex for fibromyalgia syndrome: a randomised controlled trial with 6-months follow up. Advances in Rheumatology. 2020;60. 5. Mattoo B, Tanwar S, Bhatia R, Tripathi M, Bhatia R. Repetitive transcranial magnetic stimulation in chronic tension-type headache: A pilot study. The Indian Journal of Medical Research. 2019 Jul;150(1):73. 6. Tanwar S, Mattoo B, Kumar U, Bhatia R. Can aberrant spinal nociception be a marker of chronicity of pain in fibromyalgia syndrome? Journal of Clinical Neuroscience. 2019 Jul 1;65:17-22. 7. Muthukrishnan SP, Chandran DS, Afreen N, Bir M, Dastidar SG, Jayappa H, Mattoo B, Navneet A, Poorasamy J, Roy A, Sharma A. Planning, implementation, and evaluation of multicomponent, case-based learning for first-year Indian medical undergraduates. Advances	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes

		in physiology education. 2019 Dec 1;43(4):504-11.	No	Yes
		8. Tanwar S, Mattoo B , Kumar U, Gupta N, Bhatia R. Is Fibromyalgia A Syndrome Of Hormonal Imbalance? Asian J Pharm Clin Res. 2018;11(7):416-20.		
		9. Mattoo BH , Tanwar SU, Bhatia RO, Tripathi MA, BHATIA R. Chronic tension-type headache: muscle overactivity versus deficient pain controls. Asian J Pharm Clin Res. 2018;11(8):143-6	No	Yes
		10. Tanwar S, Mattoo B , Jain S, Kumar U, Gupta N, Dada R, Bhatia R. Role of Hypothalamic-Pituitary-Gonadal Axis Hormones in Patients with Fibromyalgia Syndrome. Advances in Bioresearch. 2017 Nov 1;8(6).	No	Yes