

Department of Physiology

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 , small teaching group with topics covered
				1 2019	2 2020	3 2021	4 2022	5 2023	
Physiology	Dr. Nandini C MBBS, MD IMR NO:-79440	Prof and HOD Promoted Professor w.e.f : 17.01.2022 Promoted as HOD from 15 th may 2023	Regular	Associate professor EPCMSRC From 04.08.2018 to 16.01.2022	Associate professor EPCMSRC From 04.08.2018 to 16.01.2022	Associate professor EPCMSRC From 04.08.2018 to 16.01.2022	Associate professor EPCMSRC From 04.08.2018 to 16.01.2022 Professor EPCMSRC From 17-01-2022 to 14-05-2023	Professor EPCMSRC From 17-01-2022 to 14-05-2023 Professor & HOD EPCMSRC From 15-05-2023 to Till Date	Number of Lectures taken -35 hours Cardiovascular system 1.properties of cardiac muscle 2.cardiac cycle 3.ECG 4..Cardiac output 5..Blood pressure-regulation 6.Hemodynamics-principles 7.Cardiovascular regulatory mechanisms 8.Shock-Types and compensatory mechanisms 9.Microcirculation 10.Coronary circulation 11.Cerebral circulation Central nervous system 1.Receptors-classification&Properties 2.Cerebral cortex 3.Pain pathway &analgesic system 4.Pyramidal pathway 5.Reflexes-Classification &properties 6.Spinal cord transaction

									7.Basal ganglia-circuits,function disorders 8.Thalamus-nuclei and functions 9.Sleep &EEG small teaching group -28 hours 1.RBC Count 2.WBC count 3.DLC 4.Clinical examination of pulse,BP,respiratory system,sensory system
Dr Akhila N R MBBS, MD IMR: 76232	Promoted as Professor from : 23.11.2023	Regular	Asst Prof MVJ & RC From 01.02.2014 to 05.03.2020	Asst Prof MVJ & RC From 01.02.2014 to 05.03.2020 Assoc. Prof Dr B.R Ambedkar Medical College From 09.03.2020 to 18.11.2023	Assoc. Prof Dr B.R Ambedkar Medical College From 09.03.2020 to 18.11.2023	Assoc. Prof Dr B.R Ambedkar Medical College From 09.03.2020 to 18.11.2023	Assoc. Prof Dr B.R Ambedkar Medical College From 09.03.2020 to 18.11.2023 Professor EPCMS&RC From 23.11.2023		
Dr. Roopashree.K MBBS.MD IMR NO:- 36920	Promoted as Assoc Prof from 05.01.2023	Regular	Assistant professor EPCMSRC From 17.08.2017 to 04.01.2022	Assistant professor EPCMSRC From 17.08.2017 to 04.01.2022	Assistant professor EPCMSRC From 17.08.2017 to 04.01.2022	Assistant professor EPCMSRC From 17.08.2017 to 04.01.2022 Assoc.Prof EPCMSRC From 05.1.2023 to till date	Assoc.Prof EPCMSRC From 05.1.2023 to till date	Number of Lectures taken - 26 hours Nerve Muscle Physiology 1.Neuron-structure,properties,classification 2. types of nerves 3. action potential – graded, generation of AP 4. Neuromuscular Junction	

									<p>5. myasthenia gravis and NM blockers</p> <p>6. Structure and properties of skeletal muscle</p> <p>7. Excitation contraction coupling</p> <p>8. Molecular basis of muscle contraction</p> <p>8. Energy source and metabolism</p> <p>9. Smooth muscle-Types, features, mechanism of contraction</p> <p>10. muscular dystrophy</p> <p>Endocrine</p> <p>1. Introduction- Mechanism of action of different hormones, signaling, transport</p> <p>2. Hypothalamus and pituitary</p> <p>3. Anterior pituitary- Secretion, actions of hormones</p> <p>4. Posterior pituitary- Secretion and actions</p> <p>4. Thyroid- secretions and actions of hormones</p> <p>5. Calcium metabolism</p> <p>6. Endocrine Pancreas- Secretions and action of hormones</p> <p>6. Adrenal cortex- Secretions and actions</p> <p>7. Adrenal medulla- Secretions and actions</p> <p>Special senses</p> <p>1. Audition</p> <p>small teaching group -28</p>
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									hours 1.Total RBC count Clinical examination 1.Measurement of BP 2.Perimetry
Dr.Devina Dilip K.C MBBS,MD IMR No. KRL20130001 323 KTK	Assistant professor	Regular	Assistant professor KMCT Medical College, Kolhi Kode From 29.08.2018 to 10.03.2020	Asst. Professor KMCT Medical College, Kozhi Kode From 29.08.2018 to 10.03.2020	Asst. Professor KMCT Medical College, Kolhi Kode From 29.08.2018 to 10.03.2020 Asst Prof EPCMRC From 01.03.2021 Till date	Asst Prof EPCMRC From 01.03.2021 Till date	Asst Prof EPCMRC From 01.03.2021 Till date	Number of Lectures taken -33 hours Blood 1.Blood groups Respiratory system 1.Surfactant-composition and functions 2.Lung volumes and capacities 3.Dynamic lung volumes and capacities 4.Alveolar ventilation 5.Mechanics of respiration 6.Transport of oxygen and carbon dioxide 7.Regulation of respiration-Neural chemical and Non – Chemical 8.Hypoxia-Types and features 9.Respiratory changes in high altitude 10.Deep sea Physiology 11.Periodic breathing 12.Pulmonary circulation and diffusion 13.Cardiorespiratory changes during exercise Central nervous system 1.Synapse- classification,properties, mechanism of transmission	

									<p>2.Muscle Spindle-structure,innervations,stretch reflex</p> <p>2.Cerebellum-classification,circuit,functions,lesions</p> <p>3.Limbic system</p> <p>Special senses</p> <p>1.Colour vision</p> <p>2. Visual pathway and lesions</p> <p>Reproductive system</p> <p>1.Menstrual cycle</p> <p>2.Indicators of ovulation</p> <p>small teaching group – 28</p> <p>1.Hemocytometry</p> <p>2.BT,CT Blood group</p> <p>Spirometry</p> <p>Clinical examination</p> <p>1.Cardiovascular system</p> <p>1.Cranial nerves 7-12</p> <p>2.Motor system</p> <p>3. Reflexes</p>
Dr.Soumya P Kori MBBS, MD IMR No. 75525	Assistant professor	Regular	Assistant professor EPCMSRC From 10.06.2019 to 17.07.2021	Assistant professor EPCMSRC From 10.06.2019 to 17.07.2021	Assistant professor EPCMSRC From 10.06.2019 to 17.07.2021	Assistant professor EPCMSRC From 01.12.2022 to till date	Assistant professor EPCMSRC From 01.12.2022 to till date	<p>Number of Lectures taken - 30 hours</p> <p>General Physiology</p> <p>1.Cell organelles</p> <p>2.Cell membrane-composition</p> <p>3. intercellular junctions</p> <p>4.Types of membrane transport</p> <p>5.Biopotentials</p> <p>6.Body fluid compartments and composition</p> <p>7. Homeostasis</p> <p>8. Apoptosis</p>	

									<p>9. Buffer systems</p> <p>Renal system</p> <ol style="list-style-type: none"> 1. Renal circulation 2. Glomerular filtration 3. juxtaglomerular apparatus 4. Tubular reabsorption 5. Tubular secretion 6. Mechanism of urine formation 7. Concentration of urine 8. Micturition reflex 9. Cystomterogram 10. renal function tests <p>Central nervous system</p> <ol style="list-style-type: none"> 1. Ascending tracts 2. Extrapramidal pathway 3. UMN & LMN lesions 4. CSF, BBB CVO 5. Hypothalamus <p>Special senses</p> <ol style="list-style-type: none"> 1. Physiological anatomy of eye 2. Image formation & refractive errors <p>small teaching group – 28</p> <ol style="list-style-type: none"> 1. WBC count 2. DLC staining & counting <p>Clinical examination</p> <ol style="list-style-type: none"> 1. Radial pulse 2. Respiratory system 3. Sensory system 4. Cranial nerves 1-6 <p>Stethography</p>
Dr. Srinidhi N MBBS	Tutor	Regular	-	-	-	-	-	Tutor EPCMSRC	

IMR No:164739								From 05.09.2023	
Dr. Abhay Sudhindra Indikar	Tutor	Regular	-	-	-	-	-	Tutor EPCMSRC From 07.11.2023	
Dr. Shruti B Bagalkot MBBS IMR:140383	Tutor	Regular	-	-	-	-	-	Tutor EPCMSRC From 26.10.2023	
Dr. Jayalakshmi M MBBS IMR: 168742	Tutor	Regular	-	-	-	-	-	Tutor EPCMSRC From 06.11.2023	

SL NO	FACULTY	PUBLICATION	INDEXING SYSTEM
1	Dr. Nandini C	<ol style="list-style-type: none"> 1. C .Nandini, C. Hemashankar, B. C. Vastrad. Comparitive study of visual reaction time in congenital deaf and normal children..Biomedicine an international journal of biomedical sciences.2014;34(4):510-513. 2. C .Nandini, V. Hari Haran , B. C. Vastrad. . Comparitive study of intelligence between myopes and emetropes. Biomedicine an international journal of biomedical sciences.2015;35(4):396-399 3. Chandrashekar N, Pagadala P, Nerella S, Babu RM. Comparative study of body mass index and pulmonary functions between overweight and normal weight women. National Journal of Physiology, Pharmacy and Pharmacology. 2018;8(8):1124-7. 4. Nandini C, Malleshappa K, Vastrad BC, Nafees S. Study of lung function in granite workers based on duration of exposure. National Journal of Physiology, Pharmacy and Pharmacology. 2018;8(10):1374-6. 5. Nandini C, Roopashree K. Effects of Cell Phone Conversation on Visual and Auditory Reaction Time in Students of a Medical College in Bangalore. International Journal of Physiology. 2020 Apr 29;8(2):98-103. 6. Ghosh S, Roopashree K, Nandini C, John AJ. Effects of Habitual Physical Activity Level (PAL) on Simple Visual and Auditory Reaction Time in Healthy Indian Adults. International Journal of Physiology. 2020 Mar 1;8(1):142-7. 7. Roopashree K, Ghosh S, Nandini C. Effects of age, gender, and anthropometric 	<p>Scopus</p> <p>Scopus</p> <p>Embase</p> <p>Embase</p> <p>Index Copernicus</p> <p>Index Copernicus</p> <p>Embase</p>

		<p>measurements on simple visual and auditory reaction time in healthy Indian adults. National Journal of Physiology, Pharmacy and Pharmacology. 2021;12(1):0-0.</p> <p>8. Nandini C, Roopashree Ramakrishna, Devina Dilip K C. Effectiveness of Self-directed learning in physiology – students perspective. National Journal of Physiology, Pharmacy and Pharmacology.2022;12(02):252-255.</p>	Embase
2.	Dr. Akhila	<ol style="list-style-type: none"> 1. Bhagyalakshmi S, Akhila NR, Nanjundaswamy HM. Correlation of serum ferritin levels with pulmonary function tests in thalassemia patients. Natl J Physiol Pharm Pharmacol 2022;12(06):850-855. 2. BhagyalakshmiSwamy, NR Akhila, HM Nanjundaswamy. Study of Pulmonary Function Tests in Multitransfused Children with Thalassaemia: A Case-control. JCDR 2022;16(7):20-23. 3. Akhila N R, Jayalakshmi L. Maternal and neonatal outcome in gestational hypertension. Natl J Physiol Pharm Pharmacol 2019;9(7):700-703. 4. Akhila N R, Dayananda G, Pramodh V. Perception of medical students about learnability through different teaching aids. Medpulse International Journal of Physiology. Feb 2019;9(2):12-15. 	<p>Embase</p> <p>Embase</p> <p>Embase</p> <p>Index copernicus</p>
3.	Dr. Roopashree K	<ol style="list-style-type: none"> 1. Roopashree .K, Sadiqua Begum, Manjunatha S. Diabeti Risk assessment among residents of a government medical college . Ind. J. Physiol& Allied Sci. 2018 2. Ghosh S, Roopashree K, Nandini C, John AJ. Effects of Habitual Physical Activity Level (PAL) on Simple Visual and Auditory Reaction Time in Healthy Indian Adults. International Journal of Physiology. 2020 Mar 1;8(1):142-7. 3. Nandini C, Roopashree K. Effects of Cell Phone Conversation on Visual and Auditory Reaction Time in Students of a Medical College in Bangalore. International Journal of Physiology. 2020 Apr 29;8(2):98-103. 4. Roopashree K, Ghosh S, Nandini C. Effects of age, gender, and anthropometric measurements on simple visual and auditory reaction time in healthy Indian adults. National Journal of Physiology, Pharmacy and Pharmacology. 2021;12(1):0-0. 5. Suparna Ghosh, Roopashree K Determination of severity of premenstrual syndrome among vegetarian and non vegetarian women.NJPPP.2023, Vol.13.Issue(1).167-170 	<p>Index Copernicus</p> <p>Index Copernicus</p> <p>Embase</p> <p>Embase</p> <p>Embase</p>
4	Dr. Devina Dilip K C	<ol style="list-style-type: none"> 1. Nandini C, Roopashree Ramakrishna, Devina Dilip K C. Effectiveness of Self-directed learning in physiology – students perspective. National Journal of Physiology, Pharmacy and Pharmacology.2022;12(02):252-255. 2. Devina DilipK C, Rajalakshmi G, association of serum magnesium with insulin 	Embase

		resistance in patients with metabolic syndrome. <u>National journal of physiology, pharmacy and pharmacology.2013;13(12)</u>	Embase
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MEDICAL EDUCATION TRAINING

FACULTY NAME	CENTER	DATES
Dr. Nandini C	East point college of medical science and research center	11.06.2019 to 13.06.2019
Dr. Akhila N. R	St John's medical college	01.08.2023 to 03.08.2023
Dr. RoopShree K	East point college of medical science and research center	26.10.2021 to 28.10.2021