

DEPARTMENT OF BIOCHEMISTRY

1. About us: (Type a minimum of 500 words about the department)

The Department of Biochemistry holds expert and experienced faculty who graduated from prestigious Institutes and constantly update themselves and work to achieve the benchmark in the realm of knowledge and teaching. We are proud to inform that the Department of Biochemistry provides excellent laboratory-based services such as Metabolic parameter analysis, Electrolytes, Arterial Blood Gas Analysis, Hormones, Tumor Markers and Inborn Metabolic screening, etc., which exists to help clinicians in the prevention, diagnosis and treatment of diseases. This department works round the clock. Every month nearly 50,000 out-patient and 1,30,000 In-patient tests are performed. Here, students of Postgraduate (M.D Biochemistry), Under Graduate (M.B.B.S), DMLT, BSC MLT, and other Allied health care Students gain sound knowledge of the various equipments and methods used in the laboratory for improving the patient health care. This exposure is supplemented by theoretical as well as practical knowledge with the help of advanced teaching techniques and learning aids that are present in the lecture halls. These facilities are put to good use by the faculties of the department. The faculty members, besides improving the Lab standard, also conduct Continuous Medical Education (CME) programmes and attend national and International Conferences to gain and exchange knowledge on the progress made in different areas of Biochemistry.

2. Department academics: (provide the academic details of the department) example format is given below

1. MBBS:

- a. MBBS - 150 students per year
- b. Lectures
- c. Small group teaching
- d. Practicals and DOAP Sessions
- e. Early clinical Exposure & Bedside teaching
- f. Integrated Sessions
- g. AETCOM
- h. Symposium
- i. Home & Library Assignments
- j. SDL
- k. Assessment
- l. Quiz Programme

2. M.D.




- a. MD - 3 Students per year
- b. Theory
- c. Clinical (case presentation and discussion)
- d. Symposium
- e. Journal Club
- f. Group Discussion
- g. Lab Postings
- h. OSCE
- i. Viva
- j. Seminar
- k. Guest Lectures

3. B.Sc MLT
4. B.Sc Other Courses
5. DMLT Courses
6. D.Pharm Courses




3. **Infrastructure** (Provide the infrastructure details of the department) Example format is given below

- a. Lecture halls – 1
- b. Demo rooms – 2 (each 50 Sq. m X 2 = 100 Sq)
- c. Practical class room -1 (Size: 175 Sq. m)
- d. Preparation room –1 (Size: 200 Sq.m)
- e. Library – 1 (15 sq.m)
- f. Research lab -1 (Size 60 Sq.m)
- g. Live streaming with WIFI connection available
- h. Audio-visual equipment available

4. **Faculty details:** (Provide the details of the faculty as shown in NMC in the following format)

S.No	Name	Designation	Qualification	TNMC registration number	email ID	Photo (paste photo copy in this box)
1	Dr.K.Tamilmani	Professor	M.D(Biochemistry)	82628	drtamilmaninataraj2012@gmail.com	
2	Dr.M.Ramadevi	Associate Professor	M.D(Biochemistry)	47498	mathivanan.ramadevi@gmail.com	
3	Dr.K.Vanitha	Associate Professor	M.D(Biochemistry)	65324	drvanithaashok@gmail.com	

4	Dr.T.S.Sunithapriya	Associate Professor	M.D(Biochemistry)	67066	Sunithapandiyan@gmail.com	
5	Dr.V.Kayalvizhi	Assistant Professor	M.D(Biochemistry)	71490	Nithunandhu23@gmail.com	
6	Dr.K.Manjukarthikeyani	Assistant Professor	M.D(Biochemistry)	68419	drmanjukarthikeyani@gmail.com	
7	Dr.S.Bhuvaneshwari	Assistant Professor	M.D(Biochemistry)	86152	bhuvi.immortal@gmail.com	
8	Dr. B. Ramya	Assistant Professor	M.D(Biochemistry)	69894	drramyabiochemistry@gmail.com	

9	Dr.D.Alamelu Mangai	Assistant Professor	M.D(Biochemistry)	67213	hareshviswa@gmail.com	
10	Dr.C.Manoji Selva Jeyasingh	Tutor	M.D(Biochemistry)	95755	orangecolour999@gmail.com	
11	Dr. C. Anbumani	Tutor	M.D(Biochemistry)	73553	avirshini26@gmail.com	

**5.Publication details by the faculty (Provide the details of the publication in the following format)
Provide HOD details, professor details, associate details followed by AP/SR details in order.**

S. No	Name	Designation	Title	Journal name	Month year of publication	Order of author	Type of article
1.	Dr. K.Tamilmani	Professor	Non HDL Cholesterol as a better predictor of Coronary Heart Disease risk in Obesity	International Journal of Pharmaceutical and Clinical Research Journal of surgery____	10-02-2023	First author	Original research article
			Correlation of Inflammatory	International Journal of Pharmaceu	10-02-2023	First author	

			Markers with Radiological findings in Novel Covid-19 Diseased Patients in a Tertiary Care Centre in South India	tical and Clinical Research			Original research article
			Tumour Necrosis Factor Receptor Type II gene Polymorphism in Coronary Heart Disease	Scholars Journal of Applied Medical Sciences	26-02-2019	Corresponding author	Original research article
			Comparison of academic performance of medical undergraduate students between routine classroom teaching and online assisted teaching in biochemistry during COVID pandemic	Biochemistry and molecular biology education	September 2022	First author	Original research article

2.	Dr.Ramadevi.M	Associate Professor	Assessment of Paraoxonase – 1 activity in Diabetes Mellitus	Journal of Evolution of Medical and Dental Sciences	October 27 2016	First author	Original research article
			Plasma Lipoprotein (a) levels in Acute coronary syndrome at a tertiary care hospital in south India	National Journal of basic medical sciences	December 2016	Second author	Original article
			Correlation between Serum PON-1 activity and lipid profile in diabetes mellitus	Med Pulse International Journal of Biochemistry	December 2018	First author	Original research article
			A Study on role of lipid peroxidation in diabetic patients in Thiruvarur district	Integrated Archives of integrated Medicine	14-12-2018	First author	Original research article
3.	Dr.Vanitha.K	Associate Professor	HbA1C – An Indicator of adverse outcome in non-diabetic Patients with acute myocardial	International Journal of Scientific research	October 2018	Second author	Original research article

			infarction				
			Serum Pentraxin 3 – A marker in diagnosing Acute coronary syndrome	Journal of Medical Sciences and health	2016	First author	Original research article
			Association of Melanocortin 4 Receptor Gene Single Nucleotide Polymorphism In Young Obesity	International Journal of Life sciences, biotechnology and pharma research	October – December 2023	Second author	Original research article
			Screening of adiponectin gene +45 T/G Polymorphism in central south Indian population with and without Type 2 Diabetes Mellitus Individuals	MAK HILL Publications Research Journal of medical sciences	30 November 2023	Second author	Original research article

4.	Dr.Sunithapriya.T.S	Associate Professor	Gamma Glutamyl transferase an oxidative stress marker in metabolic syndrome	International Journal of Scientific study	August 2020	First author	Original article
			Study of S.N Telopeptidase A bone resorptive biomarker in post menopausal osteoporosis	Journal of Evolution of Medical and Dental Sciences	September 22 2016	First author	Original research article
			Comparison of bone biomarkers in post menopausal women	International Journal of Scientific study	December 2016	First author	Original article
5.	Dr.Manju Karthikeyani.K	Assistant Professor	Urinary kidney injury molecule-1 as a early detection biomarker for diagnosis of acute kidney injury in patients of snake bite	Journal of clinical and diagnostic research	November 2021	First author	Original article
			A study on serum uric acid in acute ischaemic stroke	Research Journal of pharmaceutical, biological and chemical	September-October 2023	Third author	Original article

				sciences			
			A study of soluble forms like tyrosine kinase 1 as a marker of preeclampsia in primigravida	International Journal of life sciences, Biotechnology and Pharmacy research	October-December 2023	Corresponding author	Original research article
6.	Dr. Bhuvaneshwari. S	Assistant Professor	Study of lipid profile in psoriasis	Research Journal of pharmaceutical, biological and chemical sciences	July – August 2023	Second author	Original article
			Study of urinary calcium/creatinine ratio (CCR) in postmenopausal women as a biochemical marker of hypercalcaemia	Research Journal of pharmaceutical, biological and chemical sciences	September – October 2023	First author	Original article
			Study of serum LDH, Lipid profile and serum magnesium as the best predictor	Research Journal of pharmaceutical, biological and chemical sciences	March – April 2023	Third author	Original article

			for severity of pre eclampsia				
7.	Dr.Ramya.B	Assistant Professor	Metabolic syndrome – Cardiac structure and functional analysis by echocardiography; A cross sectional comparative study	De Gruyter	March 2 2023	Fifth author	Original article
			Association of Vitamin-D with Risk factors for coronary artery disease	Medica – A Journal of clinical medicine	13 December 2023	First author	Original Paper
			Analyzing the outcomes of COVID – 19 infection on patients with comorbidities: Insights from hospital – based study	Cureus	01/03/ 2024	First author	Original article
8.	Dr.Alamelu Mangai.D	Assistant Professor	A study on evaluation of Serum Ferritin levels in patients of	International Journal of Medical Science and current research	January – February 2021	Second author	Original research paper

			Hypertension in a tertiary care teaching hospital				
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6.CME/workshop details (Provide the CME workshop conducted by the department in the following format) from 2022 to till date

S. No	Department	Title of CME/Workshop	Date of CME	TNMC accreditation points	TNMGRMU accreditation points	other accreditation
1	Biochemistry	Liver Function Tests – A Gateway to Diagnosis	07.07.2023	1 hour	10 points	--

7.Clinical materials details (as applicable for lab and clinical departments)

S.No	Month -year	Total biochemical investigations done
1	January 2024	152090
2	February 2024	156674
3	March 2024	174905
4	April 2024	181308
5	May 2024	190348
6	June 2024	181135
7	July 2024 (Till 29.07.2024)	151988

8.Awards and achievement by department and faculty:

1. Dr.Tamilmani.K - Received Best Doctor Award – 2018, COVID Warrior award - 2020
2. Dr.Sunithapriya.T.S – Received Best Doctor Award – On 26 January 2019 & 2022, 15 August 2023
3. Dr.Vanitha.k – Received Best Doctor Award – On 26 January 2024
4. Dr.Manju Karthikeyani.K - Received Best Doctor Award – On 30 July 2019
5. Dr.Bhuvaneswari.S - Received Best Doctor Award – On 15 August 2022
6. Dr.Manoji selva jeyasingh.C - Received Best Doctor Award – On 26 January 2024