

# PHARMACEUTICAL AND DIAGNOSTIC CHEMISTRY-2022-23

## PROGRAM HIGHLIGHTS

The study of microorganisms with particular emphasis on the biology of bacteria, viruses, fungi and protozoan parasites. Demonstrate an understanding of the components of human blood and characteristics, functions, and abnormalities and disease states of each. Demonstrate proficiency in the skills necessary to perform blood cell counts, and evaluation of blood elements within stated limits of accuracy

The goal of the this **Course** is to provide students with essential medical knowledge and a broad understanding of human disease. The **Course** emphasizes "the language of disease" as a necessary foundation for self-education and lifelong **learning**.

WATER,AIR AND CLEANNESS ARE THE MAIN ARTICLES IN  
**MY PHARMACY**



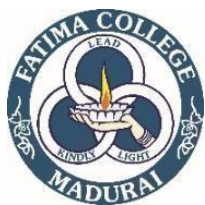
Rs.750

30 hrs

*Don't miss it.*



FATIMA COLLEGE (AUTONOMOUS), MADURAI



# Fatima College

(Autonomous)

Mary Land, Madurai - 625 018, Tamil Nadu.

## DEPARTMENT OF CHEMISTRY

### VALUE ADDED COURSE-CRASH COURSE

#### PHARMACEUTICAL AND DIAGNOSTIC CHEMISTRY 2022-2023

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
UACH	19UGVACC1	PHARMACEUTICAL AND DIAGNOSTIC CHEMISTRY	Lecture	2	2

#### Course Description

This paper deals with routine haematological tests, blood groupings, biochemistry, classification of microorganisms and handling microbiological samples.

#### Course Objective:

This course directs the students to apply the principles of organic chemistry in the field of pharmaceutical sciences and train them with various tests performed in clinical laboratories.

#### Course outcome

After successful completion of the course, the students will be able to

- ☐ CO1 Perform routine haematological tests
- ☐ CO2 Identify blood types and blood transfusion.
- ☐ CO3 Know the chemistry of various biologically important compounds.
- ☐ CO4 Classification of microorganisms and learn different staining procedures.
- ☐ CO5 Apply the laboratory tests and analyze various microbiological samples.

**Hours: 30 hours**

#### UNIT I - PATHOLOGY-I

(6 Hrs)

Routine haematological tests- H, Tc, Dc, ESR, anaemia.

#### UNIT II - PATHOLOGY-II

(6 Hrs)

Blood types, grouping, blood transfusion, cross- matching

#### UNIT III - BIOCHEMISTRY

(6 Hrs)

Sugar, urea, creatinine, cholesterol, Bilirubin, Lipid profile, Liver

function tests, Kidney function tests.

**UNIT IV - MICROBIOLOGY -I**

**(6Hrs)**

Classification of micro organisms, staining procedure,

**UNIT V-MICROBIOLOGY-II**

**(6 Hrs)**

Type of media, handling the microbiological samples, ECG-technology

S. Pedraza  
HEAD  
Department of Chemistry  
Fatima College (Autonomous)  
Madurai 625 010



# Pharmaceutical and மாணவன்

# Diagnostic Chemistry வருகைப் பதிவேடு

வகுப்பு:	பிரிவு:	பெயர்	1	2	3	4	5	6	7	8	9	10
1	2021 C20	M. Janika	/	/	/	/	/	/	/	/	/	/
2	2021 C28	G. Rajasarasai	/	/	/	/	/	/	/	/	/	/
3	2021 C23	M. Mithupriya	/	/	/	/	/	/	/	/	/	/
4	2021 C22	S. Maheswari	/	/	/	a	/	/	/	/	/	/
5	2021 C18	E. Infant kekena	/	/	/	/	/	/	/	/	/	/
6	2021 C13	C. Durgalakshmi	/	/	/	/	/	/	/	/	/	/
7	2021 C42	A. vichalini	/	/	/	/	/	/	/	/	/	/
8	2021 C17	F. Vdaya Desera	/	/	/	/	/	/	/	/	/	/
9	2021 C19	Z. Jafina barwin	/	a	/	/	/	/	/	/	/	/
10	2021 C08	S. Dharani	/	/	/	/	/	/	/	/	/	/
11	2021 C07	A. crispin vizgila	/	/	/	/	/	/	/	/	/	/
12	2021 C31	J. Ronica Alice	/	/	/	/	/	/	/	/	/	/
13	2021 C04	M. Bhavadharani	/	/	/	/	/	/	/	/	/	/
14	2021 C25	R. parithra	/	/	/	/	/	/	/	/	/	/
15	2021 C41	A. vichalini	/	/	/	/	/	/	/	/	/	/
16	2021 C28	G. Vasshini	a	/	/	a	/	/	/	/	/	/
17	2021 C38	R. Vaishnavi	/	/	/	/	/	/	/	/	/	/
18	2021 N04	M. Anitha (Long Anni)	a	a	a	a	a	a	a	a	a	a
19	2020 C34	M. Rajen	/	/	/	/	/	/	/	/	/	/
20	2020 C08	G. Bowya durga	/	/	/	/	/	/	/	/	/	/
21	2020 N63	S. Suresha	/	/	/	/	/	/	/	/	/	/
22	2020 C40	R. Smitha Angel	/	/	/	/	a	/	/	/	/	/
23	2020 C20	S. Janani	/	/	/	/	/	/	/	/	/	/
24	2020 C23	A. Teri Christy	/	/	/	/	/	/	/	/	/	/
25	2020 C49	R.S. vishva prata	/	/	/	/	a	/	/	/	/	/
26	2020 C15	J. Ganagamine	/	/	/	/	/	/	/	/	/	/
27	2020 C35	J. Reetha	/	/	/	/	/	/	/	/	/	/
28	2020 C17	A. Hema Jasmine	/	/	/	/	/	/	/	/	/	/
29	2020 C41	S. Eweltha	/	/	/	/	/	/	/	/	/	/

வகுப்பு:	பிரிவு:	பெயர்	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2021 C20	M. Janika	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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தினசரி வருகை	முற்பகல்	பிற்பகல்
ஆசிரியர் கருக்கொப்பம்	முற்பகல்	பிற்பகல்
மாத்த துவக்கத்தில் மாணவன் எண்ணிக்கை :	மீலமியவர்களின் எண்ணிக்கை :	மாத்த இறுதியில் மாணவன் எண்ணிக்கை :
முதலாம் செக்கப்பூல் மாணவன் எண்ணிக்கை :	மாத்த இறுதியில் மாணவன் எண்ணிக்கை :	
மாத்தின் வேலை நுட்பம் :	மாத்தின் மருந்து வருகை :	



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## DEPARTMENT OF \_\_\_\_\_CHEMISTRY\_\_\_\_\_

### Value added Courses - Course Teacher Name list

S. No.	Course Title with Course Code	Course Teacher	No. of Hours Taken
1.	PHARMACEUTICAL AND DIAGNOSTIC CHEMISTRY-19UGVACC1	DR.J.JONE CELESTINA	30

*S. Nedona*  
HEAD  
Department of Chemistry  
Fatima College (Autonomous)  
Madurai 18

Signature of the HOD with Seal





# FATIMA COLLEGE (AUTONOMOUS)

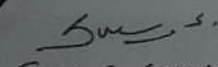
AFFILIATED TO MADURAI KAMARAJ UNIVERSITY  
RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

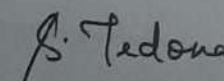
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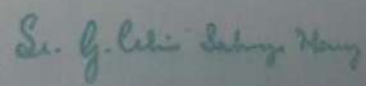
This is to certify that Ms. GI. VARSHINI, 2021228, II B.Sc Zoology  
has successfully completed the Value Added Crash Course on

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during the academic year 2022-2023 and has been  
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Dr. S. Sukumaran  
Co-ordinator

  
S. Tedona  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal



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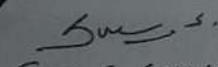
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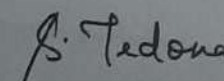
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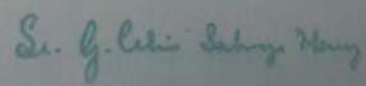
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