



Anekant Education Society's
Tuljaram Chaturchand College
of Arts, Science & Commerce, Baramati.
(Autonomous)

CC Medical Diagnostics

Certificate Course-2023-24

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Department of Zoology
Date -23/10/2022

To,
The Principal,
Tuljaram Chaturchand College,
Baramati

Subject: - Completion report of Certificate Course in Medical Diagnostics CC2023-24

Respected Sir,

As mentioned above subject, I have successfully conducted a certificate course in Medical diagnostics. A total of 40 students were enrolled for this course. This course was completed in September and October. Theory lectures are conducted via offline mode. Theory and Practical sessions were conducted to complete the certificate course. The online MCQ exam is conducted on 9th October 2023 to evaluate the students. I hereby attach the results of the students along with this report. I also request you to sanction remuneration for this course as a course coordinator.

Thank you.

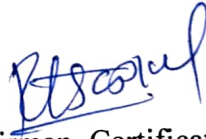
Total 40 x 500 = 20,000/- 70% = 14,000/- Ph



Course Coordinator



Faculty Coordinator



Chairman, Certificate Course



Principal





Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati.
(Autonomous)

Department of Zoology
Certificate Course-2023-24
Subject: Medical Diagnostics CC2023-24

NOTICE


All the students enrolled for certificate course in Medical Diagnostics are hereby informed that theory and practicals of the said course will commence from Wednesday, 20th September 2023. Theory lectures will be conducted in online mode on Google Meet. Time-table is displayed on the WhatsApp group. All students are instructed to note the same and attend the theory and practicals as per time-table.

Examination of the certificate course will be conducted on 9th October 2023 (08:30 AM-09:30 AM) in online mode on Google Form. Link for the same will be displayed on WhatsApp group.




 Course Coordinator


 Faculty Coordinator


 Chairman, Certificate Course


 Principal

Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati.
(Autonomous)

Department of Zoology
Certificate Course-2023-24
Subject: Medical Diagnostics CC2023-24

Timetable (Theory + Practical)

Theory Lecture- 1hr + Practical- 3hr/ Practical

Date/ Theory	Time	Date / Practical	Time
20-09-2023	09:00 AM - 10:00 AM	24-09-2023	11:00 AM - 02:00 PM
21-09-2023	09:00 AM - 10:00 AM		02:30 PM – 05:30 PM
22-09-2023	09:00 AM - 10:00 AM	01-10-2023	11:00 AM - 02:00 PM
23-09-2023	09:00 AM - 10:00 AM		02:30 PM – 05:30 PM
25-09-2023	09:00 AM - 10:00 AM	08/10/2023	11:00 AM - 02:00 PM
26-09-2023	09:00 AM - 10:00 AM		02:30 PM – 05:30 PM
27-09-2023	09:00 AM - 10:00 AM		
28-09-2023	09:00 AM - 10:00 AM		
29-09-2023	09:00 AM - 10:00 AM		
30-09-2023	09:00 AM - 10:00 AM		
02-10-2023	09:00 AM - 10:00 AM		
03-10-2023	09:00 AM - 10:00 AM		

Lecture = 12 hrs. + Practical = 18 hrs. = Total 30 hrs.



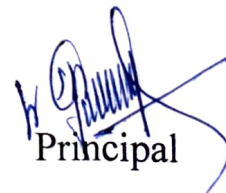
Course Coordinator



Faculty Coordinator



Chairman, Certificate Course



Principal

Anekant Education Society's
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE & COMMERCE, BARAMATI
AUTONOMOUS
DEPARTMENT OF ZOOLOGY

Course Title: Certificate Course in Medical Diagnostics

A) Learning Objective

1. To understand the scope, need of medical diagnosis.
2. To understand principle working of different medical laboratory instruments.
3. To understand medical diagnosis reports.
4. Diagnose routine clinical problems on the basis of histopathology
5. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.
6. Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time.

B) Learning Outcome

1. The students will be able to understand the basics principles of Medical diagnosis.
2. The students will be able to understand principle working of different medical laboratory instruments.
3. The students will be able to understand medical diagnosis reports.
4. The students will be able to understand principles of sample collection for Hematology and Clinical Pathology
5. The students will be able to understand biochemical tests: methods of collection, analysis and interpretation of results
6. The students will be able to understand sample collection for blood banking

Unit No.	Content	No. of Lectures
1	Introduction: Importance and Scope of medical diagnostics	1
2	Clinical Biochemistry Creatinine clearance test Diabetes (Type I and II): Blood sugar, urine sugar Total Triiodothyronine (T3 hormone), Total thyroxin (T4), and Thyroid stimulating hormone (TSH). Lipid profile	2
3	Hematology: Technique of Blood grouping and cross matching , Coomb's test, Blood cell count (RBC, WBC, Differential, Platelet) and abnormal values, PCV / Haematocrit value, Mean Cell / corpuscular Volume (MCV), Mean corpuscular haemoglobin (MCH), Mean Corpuscular Hemoglobin Concentration (MCHC), Blood Collection, Selection and Screening of donors, Storage of blood.	4




4	Techniques in Cardiology The cardiac pacemaker: Natural Pacemaker, Cardiac Pace Maker, ECG.	2
5	Study of components, working, principle & operation X-ray machine Ultrasonography machine CT machine MRI machine	3

Unit No.	Name of the Practical	No. of Lectures
1	To determine bleeding time(BT), clotting time(CT) of human blood	3
2	To determine the blood groups and Rh factor.	3
3	Enumeration of total White blood cells (WBC) using haemocytometer.	3
4	To perform a differential leucocyte count (DLC).	3
5	To estimate amount of haemoglobin in human blood using haemoglobinometer.	3
6	To estimate the level of glucose in serum sample by enzymatic GOD-POD (Glucose oxidase- peroxidase) method.	3



**Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati
(Autonomous)**

Institute Code No:	0032	Subject Code : - CC Medical Diagnostics
Exam Center No :	016	Name of Course: Medical Diagnostics CC2023-24
		Exam Name : Certificate Course September/October 2023
		Sem : III
		Examiner: Mr. K. U. More Signature: 

Roll No.	Seat No.	PRN No.	Name of the Student	Marks	Remark	Class
10981	1677	13223206217	Shirke Ketan Dilip	44	Complete	S.Y.B.Sc.
10990	1724	13223206518	Gholap Swapnil Kantilal	24	Complete	S.Y.B.Sc.
10991	1700	13223206264	Bankar Gauri Sunil	46	Complete	S.Y.B.Sc.
10992	1704	13223206269	Jadhav Shilpa Kakasaheb	42	Complete	S.Y.B.Sc.
10993	1650	13223206163	Gawade Nikita Vitthal	36	Complete	S.Y.B.Sc.
10996	1750	13223206574	Jadhav Rutuja Revnnath	34	Complete	S.Y.B.Sc.
10999	1697	13223206258	Sayyad Anjumsara Mustafa	42	Complete	S.Y.B.Sc.
11001	1645	13223206157	Madane Nikita Hanumant	34	Complete	S.Y.B.Sc.
11002	1668	13223206198	Yevale Vishakha Sayajirao	36	Complete	S.Y.B.Sc.
11005	1687	13223206237	Mergal Reshma Sudam	30	Complete	S.Y.B.Sc.
11012	1739	13223206545	Wavage Payal Rajendra	44	Complete	S.Y.B.Sc.
11018	1656	13223206173	Lokhande Nikita Nanaso	36	Complete	S.Y.B.Sc.
11029	1736	13223206541	Gaikwad Rohini Rohit	40	Complete	S.Y.B.Sc.
11030	1749	13223206564	Pathan Ashpak Nisar	44	Complete	S.Y.B.Sc.
11031	1680	13223206224	Kale Divya Sunil	42	Complete	S.Y.B.Sc.
11032	1681	13223206225	Kashid Anushka Ashok	42	Complete	S.Y.B.Sc.
11039	1705	13223206270	Thorat Gauri Gautam	44	Complete	S.Y.B.Sc.
11040	1702	13223206266	Kadam Sayali Sanjay	42	Complete	S.Y.B.Sc.
11044	1758	13223206587	Ingole Vaishnavi Subhash	32	Complete	S.Y.B.Sc.
11046	1688	13223206238	Pisal Sanika Kumar	38	Complete	S.Y.B.Sc.
11063	1713	13223206319	Kolekar Bhagyashri Rajendra	34	Complete	S.Y.B.Sc.
11064	1605	13223206025	Gawade Vaishnavi Tukaram	36	Complete	S.Y.B.Sc.
11070	1765	13223206597	Pandiya Aainakumari S.	28	Complete	S.Y.B.Sc.
11090	1771	23233211090	Jadhav Antara Sunil	38	Complete	S.Y.B.Sc.
11212	1726	13223206521	Shinde Sneha Samrat	40	Complete	S.Y.B.Sc.
11213	1719	13223206512	Hole Ganesh Vaman	24	Complete	S.Y.B.Sc.
11215	1723	13223206517	Kharat Adesh Shivaji	28	Complete	S.Y.B.Sc.
11219	1737	13223206542	Patil Vaishnavi Sunil	28	Complete	S.Y.B.Sc.
11220	1745	13223206558	Randive Omkar Sanjay	44	Complete	S.Y.B.Sc.





11221	1721	13223206515	Kale Prachi Sharad	44	Complete	S.Y.B.Sc.
11222	1751	13223206575	Kumbhar Gauri Pintu	44	Complete	S.Y.B.Sc.
11224	1763	13223206595	Nawale Sejal Bhagwan	44	Complete	S.Y.B.Sc.
11226	1720	13223206514	Kumbhar Dipali Balu	42	Complete	S.Y.B.Sc.
11250	1701	13223206265	Khartode Saurabh Govind	28	Complete	S.Y.B.Sc.
11258	1766	13223206598	Phadtare Sneha Hanumant	30	Complete	S.Y.B.Sc.
11259	-	13223206510	Kamble Kajal Baban	30	Complete	S.Y.B.Sc.
11260	1759	13223206589	Palase Sakshi Pradip	36	Complete	S.Y.B.Sc.
11267	1764	13223206596	Yadav Siddhi Sunil	26	Complete	S.Y.B.Sc.
11272	1756	13223206581	Magar Sakshi Sadashiv	32	Complete	S.Y.B.Sc.
11273	1743	13223206554	Sutar Bhagyashri Prashant	36	Complete	S.Y.B.Sc.

 K.V. More
Course Coordinator


Head,
Department of Zoology



Name of Professor: Mr. K. U. More

Roll No.	NAME	20/09	21/09	23/09	24/09	25/09	26/09	27/09	30/09	01/10/23	03/10/2023	04/10/2023	05-10-2023	Total
10981	Shirke Ketan Dilip	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	Ketan	11
10990	Gholap Swapnil Kantil	A	Shalop	A	Shalop	Shalop	Shalop	Shalop	A	Shalop	A	Shalop	Shalop	08
10991	Bankar Gauri Sunil	SDF	SDF	SDF	SDF	SDF	SDF	SDF	SDF	SDF	SDF	A	SDF	11
10992	Jadhav Shiipa Kakasaheb	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	Shiipa	12
10993	Gawade Nikita Vitthal	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	12
10996	Jadhav Rutuja Revrnath	A	A	A	A	A	A	A	A	A	A	A	A	00
10999	Sayyad Anjumsara Mustafa	A	A	A	A	A	A	A	A	A	A	A	A	08
11001	Madane Nikita Hanumanant	A	A	A	A	A	A	A	A	A	A	A	A	09
11002	Yeale Vishakha Sayajirao	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	08
11005	Mergal Reshma Sudam	A	A	A	A	A	A	A	A	A	A	A	A	16
11012	Wavage Payal Rajendra	A	A	A	A	A	A	A	A	A	A	A	A	05
11018	Lokhande Nikita Nanaso	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	12
11029	Gaikwad Rohini Rohit	A	A	A	A	A	A	A	A	A	A	A	A	16
11030	Pathan Ashpak Nisar	A	A	A	A	A	A	A	A	A	A	A	A	08
11031	Kale Divya Sunil	A	A	A	A	A	A	A	A	A	A	A	A	11
11032	Kashid Anushka Ashok	A	A	A	A	A	A	A	A	A	A	A	A	11
11039	Thorat Gauni Gautam	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	Gauni	09
11040	Kadam Sayali Sanjay	A	A	A	A	A	A	A	A	A	A	A	A	08
11044	Ingole Vaishnavi Subhash	A	A	A	A	A	A	A	A	A	A	A	A	09
11046	Pisal Sanika Kumar	A	A	A	A	A	A	A	A	A	A	A	A	06
11063	Kolekar Bhagyashri Rajendra	A	A	A	A	A	A	A	A	A	A	A	A	07
11064	Gawade Vaishnavi Tukaram	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	12
11070	Pandya Aainakumari S.	A	A	A	A	A	A	A	A	A	A	A	A	01
11212	Shinde Sneha Samrat	A	A	A	A	A	A	A	A	A	A	A	A	05
11213	Hole Ganesh Vaman	A	A	A	A	A	A	A	A	A	A	A	A	03
11215	Kharat Adesh Shivaji	A	A	A	A	A	A	A	A	A	A	A	A	12



Roll No.	NAME	20/09	21/09	23/09	24/09	25/09	26/09	27/09	30/09	01/10/23	03/10/2023	4/10/23	5/10/23
11219	Patil Vaishnavi Sumil	A	A	A	A	A	A	A	A	A	A	A	A
11220	Randive Omkar Sanjay	A	A	A	A	A	A	O/R	A	A	A	O/R	O/R
11221	Kale Prachi Sharad	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11222	Kumbhar Gauri Pintu	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11224	Nawale Sejal Bhagwan	S.B.N	S.B.N	A	A	A	A	A	A	A	A	S.B.N	S.B.N
11226	Kumbhar Dipali Balu	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11250	Khartode Saurabhi Govind	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11258	Phadtare Sneha Hanumant	A	A	S.H.P	S.H.P	S.H.P	A	A	A	A	A	A	A
11259	Kamble Kajal Babhan	A	A	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11260	Palase Sakshi Pradip	A	A	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11267	Yadav Siddhi Sumil	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11272	Magar Sakshi Sadashiv	A	A	A	S.S.M	S.S.M	A	A	A	A	A	A	A
11090	Jadhav Antara Sumil	A	A	A	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
11273	Gutar Bhagyashri P.	A	A	A	A	A	A	A	A	A	A	A	A
Day total													
Topic Covered	Introduction		Clinical Biometry Techn Clinical Techniques	Clinical Techniques Techniques	Blood Smear Techniques	Blood Smear Techniques	Counters Platelet Count.	Molt Molt Count Collection	Cardiac paranasal Nasal passage	Egg & Analysis	X-Ray machine	ultra-son- graphy machine.	CT & MRI machine

Signature

Head,
Department of Zoology



Signature
Course coordinator

Roll No.	NAME	24/09/23	24/09/23	01/10/23	01/10/23	08/10/23	08/10/23	Total
10981	Shirke Ketan Dilip	Kale	Kale	Kale	Kale	Kale	Kale	06
10990	Gholap Swapnil Kantilal	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	06
10991	Bankar Gauri Sunil	SB	SB	SB	SB	SB	SB	06
10992	Jadhav Shilpa Kakasheb	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	06
10993	Gawade Nikita Virthal	Dawade	Dawade	Dawade	Dawade	Dawade	Dawade	06
10996	Jadhav Rutuja Revnmath	A	A	A	A	A	A	06
10999	Sayyad Anjumsara Mustafa	Sayyad	Sayyad	Sayyad	Sayyad	Sayyad	Sayyad	06
11001	Madane Nikita Hanumant	M.D.	M.D.	M.D.	M.D.	M.D.	M.D.	06
11002	Yeval Vishakha Sayajirao	Vishakha	Vishakha	Vist A	Vist A	Vishakha	Vishakha	04
11005	Mergal Reshma Sudam	Ramagal	Ramagal	Ramagal	Ramagal	Ramagal	Ramagal	06
11012	Wavage Payal Rajendra	Wavage	Wavage	Wavage	Wavage	Wavage	Wavage	06
11018	Lokhande Nikita Nanaso	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	N.N. Lokhande	06
11029	Gaikwad Rohini Rohit	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	06
11030	Pathan Ashpak Nisar	A.	A.	A.	A.	A.	A.	06
11031	Kale Divya Sunil	pkale	pkale	pkale	pkale	pkale	pkale	06
11032	Kashid Anushka Ashok	Yashika	Yashika	Yashika	Yashika	Yashika	Yashika	06
11039	Thorat Gauri Gautam	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	06
11040	Kadam Sayali Sanjay	Sadama	Sadama	Sadama	Sadama	Sadama	Sadama	06
11044	Ingole Vaishnavi Subhash	Gaishnavi	Gaishnavi	Gaishnavi	Gaishnavi	Gaishnavi	Gaishnavi	06
11046	Pisal Sanika Kumar	SyPisal	SyPisal	SyPisal	SyPisal	SyPisal	SyPisal	06
11063	Kolekar Bhaagyashree Rajendra	Bolekar	Bolekar	Bolekar	Bolekar	Bolekar	Bolekar	06
11064	Gawade Vaishnavi Tukaram	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	06
11070	Pandya Aainakumari S.	Pandya	Pandya	Pandya	Pandya	Pandya	Pandya	05
11212	Shinde Sneha Samrat	S.S. Shinde	S.S. Shinde	S.S. Shinde	S.S. Shinde	S.S. Shinde	S.S. Shinde	06
11213	Hole Ganesh Vaman	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	06
11215	Kharat Adesh Shivaji	Adesh	Adesh	Adesh	Adesh	Adesh	Adesh	06



Roll No.	NAME	24/09/23	24/09/23	01/10/23	01/10/23	08/10/23	08/10/23	Total
11219	Patil Vaishnavi Sunil	A	A	A	A	A	A	00
11220	Randive Omkar Sanjay	01/10/23	01/10/23	01/10/23	01/10/23	08/10/23	08/10/23	06
11221	Kale Prachi Sharad	01/10/23	01/10/23	01/10/23	01/10/23	08/10/23	08/10/23	06
11222	Kumbhar Gauri Pintu	A	A	A	A	A	A	04
11224	Nawale Sejal Bhagwan	S.B. Nawale	S.B. Nawale	S.B. Nawale	S.B. Nawale	S.B. Nawale	S.B. Nawale	06
11226	Kumbhar Dipali Balu	Bumbhe	Bumbhe	Bumbhe	Bumbhe	Bumbhe	Bumbhe	06
11250	Khartode Saurabh Govind	SK	SK	SK	SK	SK	SK	06
11258	Phadtare Sneha Hanumanant	A	A	A	A	A	A	00
11259	Kamble Kajal Baban	A	A	A	A	A	A	00
11260	Palase Sakshi Pradip	S.P. Palase	S.P. Palase	S.P. Palase	S.P. Palase	S.P. Palase	S.P. Palase	06
11267	Yadav Siddhi Sunil	Shadav	Shadav	Shadav	Shadav	Shadav	Shadav	06
11272	Magar Sakshi Sadashiv	SM	SM	SM	SM	SM	SM	06
11090	Jadhav Antara Sunil	Ajadhav	Ajadhav	Ajadhav	Ajadhav	Ajadhav	Ajadhav	06
11273	Sutar Bhagyashri P.	A	A	A	A	A	A	00
Day total								
Topic Covered	<p>1) Determination of BT & CT</p> <p>2) Blood groups & Rh factor Transduction</p> <p>1) Total WBC count</p> <p>2) Differential WBC count Transduction</p> <p>1) Leucocyte count</p> <p>2) Blood group detection.</p> <p>1) Haemoglobin Estimation</p> <p>2) Blood Glycose Estimation</p>							

(Signature)

Course co-ordinator



Head,

Department of Zoology

Union Bank of India Acc. No.: 520481027071395

**ANEKANT EDUCATION SOCIETY'S
TULJARAM CHATURCHAND ARTS, SCIENCE & COMMERCE COLLEGE,**

BARAMATI (PUNE)

NON-GRANT BASIS: SR

BILL FOR MONTH: October-2023

1. Name of the Teacher: **Mr. Kishor Uttam More**
2. Subject: **Certificate Course- CC- Medical Diagnostics**
3. Total Workload (Per Week)
Senior College Periods:
4. Bill Claimed for Theory **12** Period @ Rs-----Per period.
5. Bill Claimed for Practical **18** Period @ Rs. -----Per practical.
6. Total amount of the bill Rs. **14000/-** (70%) ✓ *20*
(In Words Rs. **Fourteen thousand only**)

$40 \times 500 = 20,000/-$

I hereby certify that; I have taken all the periods shown in this monthly report statement (Attach the Statement)

Verified & Found Correct

(Signature of the Head of the Dept.)

(Signature of the Teacher)

VICE PRINCIPAL'S REMARK

Verified I am satisfied with the record submitted by the Teacher. This bill is payable as per total workload in the Department. Bill Passed for payment.

Its correct
21/11/2023
Vice Principal/In Charge
Tuljaram Chaturchand College,
Baramati

Sanctioned, Pay
Jagan
Principal
Tuljaram Chaturchand College,
Baramati

For Office Use Only

Payment Remarks:

Paid in Cash / Transfer

Cheque No. _____ dated _____

Paysheet Page No: _____

Clerk

Account Section

O.S. / Registrar

Tuljaram Chaturchand College,
Baramati