

"Educating hearts and minds"

HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH 'A' GRADE

Tripura University Reg. Code: 17

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DEPARTMENT OF HUMAN PHYSIOLOGY

Notice

Date: 24.11.2022

This is the general information for all the students and Faculty members to notify that the classes for the 'Certificate Course in Laboratory Techniques', offered by Department of Human Physiology, is going to start from 2nd December, 2022, Friday onwards.

This is notified as per the approval from the authorities.

Course Coordinator

For the 'Certificate Course in Laboratory techniques
Department of Human Physiology
Holy Cross College, Agartala

Department of Human Physiology, HOLY CROSS COLLEGE, AGARTALA



DEPT. OF HUMAN PHYSIOLOGY Holy Cross College, Agartala

Certificate / Add-on Course (non-Credit based)

Course Name: 'Certificate Course in Laboratory Techniques'

Course duration: 6 months

Eligibility: Higher Secondary Pass.

Course fee: Rs. 1000/-

Course Credit: 40 (40 hrs total, 1hr/class, 2 classes/week)

Includes Theory and Practical classes.

Seat: 30 nos.

Course offered by: Dept. of Human Physiology

Holy Cross College, Agartala

Course Coordinator: Dr. Sandeep Roy Sarkar

Asst. Professor, Human Physiology

Programme outcomes: After completing H.S., students are enabled to develop academic competence and are introduced to the forefront of current knowledge in different medical laboratory techniques. The practical modules cover hematology, experimental, biochemical, nutritional biology, uses of different techniques, etc. The lecture modules include human physiology, biochemistry, immunology, experimental physiology, etc.

Programme specific outcomes: At the end of the course students should have an enhanced knowledge and appreciation of different medical laboratory techniques. Can understand the functions of important physiological systems. Be able to perform, analyses and report on experiments and observations. Students will become skilled personals in different medical laboratory techniques.

Couse specific outcomes: Clear concept about the cell organelles and their function. Detail about the haematological sample preparation and observation of principle haematological parameters and analyses of the obtained results. Detail about the plasma/serum preparation and the estimation of crucial serum parameters which have important clinical significance. Principle roles of digestive tract, digestive glands with elaborate anatomy and physiology. Determination of physiological and anthropometric parameters. Detail about the endocrine physiology and the different glands. Principal role of biomolecules and vitamins. Evaluation of nutritional status of population. Evaluative explanation on basic immunology. Pubertry, adolescence, Woman's health and hygiene and how-to taking care of elderly.

SYLLABUS

Theory Total Marks — 50

- 1. Basic concept on different physiological systems of human body.
- 2. Blood-composition, function.
- 3. Human ABO blood grouping system.
- 4. Blood pressure: Hypertension and hypotension.
- 5. TC, DC
- 6. Arneth Index, ESR
- 7. MCV, MCHC
- 8. Immune system- Components and Functions.
- 9. Hormone- its role on growth and development.
- 10. Basic concept on digestive system.
- 11. Food groups- their physiological importance.
- 12. Malnutrition.
- 13. Vitamin
- 14. Puberty & Adolescence.
- 15. Menstruation and menarche.
- 16. Lactation- importance and role of diet.
- 17. Type I and type II Diabetes. Diabetes mellitus vs insipidus.
- 18. Arthritis- basic concept.
- 19. Woman's health and hygiene.
- 20. Taking care of elderly.

Practical Total Marks — 50

- 1. Microscopy.
- 2. Preparation of blood film
- 3. Identification of blood cells.
- 4. Determination of blood group
- 5. Determination of BT, CT
- 6. Determination of Hb%
- 7. Measurement of Pulse Rate (PR).

- 8. Measurement of Blood Pressure (BP).
- 9. Anthropometry-common measurements (Height, Weight, BMI).
- 10. Qualitative estimation of urine sample.
- 11. Human Skeleton.
- 12. Study of Human reflexes (Plantar/Patellar).
- 13. Rinne's/ Weber's test for deafness.
- 14. Test for colour vision
- 15. Basics of Fast Aid.
- 16. Woman's health and hygiene.

Distribution of marks:

Total Marks:

100

Internal assessment:

20 80

Term end exam:

Theory:

40

Practical (Two experiment, 15x2):

30

Viva Voce

10

Grading system:

Level	Excellent	Very Good	Good	Above Average	Average	Below average	Poor	Fail
Grade	A+'	A	B+	В	(C)	D	E	F
Marks range	90-100	80-89	70-79	60-69	50-59	40-49	33-40	0-32

PRINCIPAL HOLY CROSS COLLEGE AGARTALA

Dated: 10/12/2021

Appros

(Dr. Sandeep Roy Sarkar)

Course Coordinator

Asst. Professor, Dept. of Human Physiology Holy Cross College, Agartala



Jubatara Campus, Lembucherra, West Tripura, India Phone: (011-91) 2343555 Fax: (011-91) 2342572

Department of Human Physiology

Notice

Date: 2nd December, 2021

This is the general information to notify that Department of Human Physiology will be offering 'Certificate Course in Laboratory Techniques' for all. The interested students are hereby requested to collect the admission form from college office and also to submit the filled-in form for admission within 6th to 20th December. Course fee for the aforesaid course will be Rs. 1000/-(one thousand only).

Course Coordinator
Certificate Course in Laboratory Techniques
Dept. of Human Physiology



Jubatara Campus, Lembucherra, West Tripura, India Phone: (011-91) 2343555 Fax: (011-91) 2342572

Department of Human Physiology

Notice

Date: 21st December, 2021

This is the general information to notify that the students admission list for the 'Certificate Course in Laboratory Techniques' under Department of Human Physiology is hereby published, as attached.

Course Coordinator
Certificate Course in Laboratory Techniques
Dept. of Human Physiology

Certificate Course in Laboratory Techniques

Offered by- Dept. of Human Physiology
Holy Cross College, Agartala
w.e.f. December, 2021

SI Name of Candidates		Semester & Contact No.	Date of online Registration	Date of offline Registration	Course fee submitted	Signature of the candidate
1	Disha Charaboos					Rajendra W Chamon as
2	Sanjana Sen	1.60000				Sanjana Ser
3	Saptaparui Nath	1st Sem 9366852690			May 1	Saplaparni Nalli
4	Debasmita Datta	1st Sem. 7005577064				Debasmita Watta.
5_	Snigalha Gibosh	93666 23387			WAA.	Julgdha Cyhosh
6	Baishan (houdhasis	3rd Sem 88 37344173				Baishali (houdhaxi
7	Sourita Padden	3nd Sem 9485333277				Sounita Podden
8	Rimi Singha	3rd sem 8415030221				Rimi Singha.
9	Robit Debbarma Samarpan Dae	3rd sem 6909556426				
0	Samarpan Dae	390 cem 9366084085				Samorpan Das
1	Sou ja Debbanna	391d sem 7005308067				Srija Debbarona
12	ufsarita Bhadacharjee	3rd Sem 8787310268			L. Kalk	Uksarita Bhatlacharjes
3	Typhishnee Chakrabonty	38d Sem 1005582206				Tyetishree Chalination
14	Songjukta Datta	3rd Sem 9436188760				Songjukta Datta
5	Abantika Chaloraborty	3x9 2cm		Mary Andrews		Abantika Chalexabert
6	Anuluya Deb	30d Sem 8787796 -849		1946		Anueuga des
1. M	Subhan Havi Bhatlacharjee	-879 3nd sem . 8837360418		(AV)		Subhan Kari Bha tacharjee.

18	Pohor DebBorna	1st Sem 9863237340		- 104 - 104 - 104	Pohor DebBarma
19.	X(1) = 1 $A = A = A$	5th Sem 7005973919	All at Miles		Deepongkan Chisim Eangma.
1		3 nd 3 mu 7005528590			Siyari Jamala-
21.	lamuja Taipura	32 5em 8731067328			Tanuja Taipura.

22. Prajna Debbarma . 23. Niharlika Begam

24. Snigdha

24. Snigdha Rayt 25. Satadeepa Chaknaborty

9383056086

6009559862(gridsem) 8416042934 3rd Sem-

Prajna Dellarma.

Niharcika Beyam.

Surade epachorKrab only

Course Coordinator HEAD

Department of Human Physiology, HOLY CROSS COLLEGE, AGARTALA

26. Naimure Nahare Munnie

3rd sem

Naimwe Nahak

List of students Registered for the course. Students admitted for the course

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SL.NO	NAME OFT THE STUDENT	SEM	ADD ON COURSE
1	SOURITA PODDER	3RD	COURSE IN LABORATORY TECHNIQUES
2	BAISHALI CHOUDHURI	3RD	COURSE IN LABORATORY TECHNIQUES
3	SNIGDHA GHOSH	3RD	COURSE IN LABORATORY TECHNIQUES
4	RIMI SINGHA	3RD	COURSE IN LABORATORY TECHNIQUES
5	UTSARITA BHATTACHARJEE	3RD	COURSE IN LABORATORY TECHNIQUES
6	ROHIT DEBBARMA	3RD	COURSE IN LABORATORY TECHNIQUES
7	SRIJA DEBBARMA	3RD	COURSE IN LABORATORY TECHNIQUES
8	JYOTISHREE CHAKRABORTY	3RD	COURSE IN LABORATORY TECHNIQUES
9	SAMARPAN DAS	3RD	COURSE IN LABORATORY TECHNIQUES
3 60	SAMARPAN DAS	3RD	SPOKEN ENGLISH LABORATORY TECHNIQUE
11	SANJANA SEN	1ST	COURSE IN LABORATORY TECHNIQUES
12	DISHA CHAKRABORTY	1ST	COURSE IN LABORATORY TECHNIQUES
13	RIYA ACHARJEE	1ST:	COURSE IN LABORATORY TECHNIQUES
14	SHREYASI CHAKRABORTY	1ST ₂	COURSE IN LABORATORY TECHNIQUES
15	DEEPANGKAR CHISIM SANGMA	5TH	COURSE IN LABORATORY TECHNIQUES
16	SUBHANKARI BHATTACHARJEE	3RD	COURSE IN LABORATORY TECHNIQUES
17	ANUSUYA DEB	3RD	COURSE IN LABORATORY TECHNIQUES
18	SNIGDHA GHOSH	3RD	SPOKEN ENGLISH LABORATORY TECHNIADES
1)9	RIMI SINGHA	3RD	SPOKEN ENGLISH LABORATORY TECHNIQUE
20	DEBASMITA DATTA	1ST	COURSE IN LABORATORY TCHNIQUES
21	POHOR DEBBARMA	1ST	COURSE IN LABORATORY TCHNIQUES
22	ABANTIKA CHAKRABORTY	3RD	COURSE IN LABORATORY TCHNIQUES
23	SONGJUKTA DATTA	3RD	COURSE IN LABORATORY TCHNIQUES
24	SAPTAPARNI NATH	1ST	COURSE IN LABORATORY TCHNIQUES

22 Satadeep Chakraborty

23 Snigdha Roy

8 24 Naimur Nahar Munnie

25 Siyari Jamatia

10 26 Prajna Debbarma

3rd - BSC-Bleek

3rd -BSC-Elect

3rd - 11 "
3rd " "

3rd Botany

Department of Human Physiology, HOLY CROSS COLXEGE, AGARTALA

DEPT. OF HUMAN PHYSIOLOGY Holy Cross College, Agartala

NOTICE

Date: 24-12-2021

Dear Students and Faculty members,

This is to inform you all that the classes for the 'Certificate Course in Laboratory Techniques', offered by Dept. of Human Physiology, Holy Cross College, Agartala, is going to start from Monday, 27th December, 2021 onwards. This is notified as per the approval from the authority.

(Dr. Sandeep Roy Sarkar) Course Coordinator

Asstt. Professor, Human Physiology

Department of Human Physiology,

HOLY CROSS COLLEGE, AGARTALA



Jubatara Campus, Lembucherra, West Tripura, India Phone: (011-91) 2343555 Fax: (011-91) 2342572

Notice

Date: 1st December, 2021

This is to inform all concerned that the following members of the Department of Human Physiology will be submitting the draft syllabus of Certificate Course In Laboratory techniques to the college authority within 10 days from the notification:

- 1. Dr. Sandeep Roy Sarkar, Course Coordinator & Asst. Professor, Dept. of Human Physiology.
- 2. Dr. Balaram Sutradhar, Asst. Professor, Dept. of Human Physiology.
- 3. Dr. Susmita Saha, Asst. Professor, Dept. of Human Physiology.

Sd/-Principal Holy Cross College, Agartala



Jubatara Campus, Lembucherra, West Tripura, India Phone: (011-91) 2343555 Fax: (011-91) 2342572

Notice

Date: 13th May, 2022

This is the general information to notify that the Exam. for the December, 2021 - May, 2022 batch of 'Certificate Course in Laboratory Techniques' will be held on Wednesday, 18th May, 2022 in Hall no. F1-4, Time: 1pm.

Course Coordinator
Certificate Course in Laboratory Techniques
Dept. of Human Physiology



Dept. of Human Physiology Holy Cross College, Agartala

Certificate Course in Laboratory Techniques

Batch: Dec., 2021 – May, 2022

Sl.	Name of registered students	Department	Semester	Grades
No.	rame of registered students	belong to	belong to	obtained
1.	MISS. SOURITA PODDER	H. Phy.	3rd	A
2	MISS. BAISHALI CHOUDHURI	H. Phy.	3rd	A+
3	MISS. SNIGDHA GHOSH	H. Phy.	3rd	- A
4	MISS. RIMI SINGHA	H. Phy.	3rd	B+
5	MISS. UTSARITA BHATTACHARJEE	H. Phy.	3rd	B+
6	MR. ROHIT DEBBARMA	H. Phy.	3rd	B+
7	MISS. SRIJA DEBBARMA	H. Phy.	3rd	В
8	MISS. JYOTISHREE CHAKRABORTY	H. Phy.	3rd	Α
9	MR. SAMARPAN DAS	H. Phy.	3rd	A
10	MISS. SANJANA SEN	H. Phy.	1 st	B+
11	MISS. DISHA CHAKRABORTY	H. Phy.	1 st	A+
12	MISS. RIYA ACHARJEE	H. Phy.	1 st	Α
13	MISS. SHREYASI CHAKRABORTY	H. Phy.	1 st	Α
14	MR. DEEPANGKAR CHISIM SANGMA	H. Phy.	5 th	A+
15	MISS. SUBHANKARI BHATTACHARJEE	H. Phy.	3rd	B+
16	MISS. ANUSUYA DEB	H. Phy.	3rd	B+
17	MISS. DEBASMITA DATTA	H. Phy.	1 st	Α
18	MR. POHOR DEBBARMA	H. Phy.	1 st	Α
19	MISS. ABANTIKA CHAKRABORTY	H. Phy.	3rd	A+
20	MISS. SONGJUKTA DATTA	H. Phy.	3rd	A+ **
21	MISS. SAPTAPARNI NATH	H. Phy.	1 st	Α
22	MISS. SATADEEPA CHAKRABORTY	B.Sc. General	3rd	B+
23	MISS. SNIGDHA ROY	B.Sc. General	3rd	B+
24	MISS. NAIMUR NAHAR MUNNIE	B.Sc. General	3rd	A+
25	MISS. SIYARI JAMATIA	B.Sc. General	3rd	A+
26	MISS. PRAJNA DEBBARMA	Botany	3rd	A

Course Coordinator



Agartala

Affiliated with Tripura University (A Central University) An ISO 9001:2015 Certifled Institution

Accredited by NAAC with 'A' Grade

This is to certify that

SOURITA PODDER

has been a student of Holy Cross College
(From December, 2021 to May, 2022) and
She/ He has successfully completed the
Six Months Certificate Course on
LABORATORY TECHNIQUES
offered by
Department of Human Physiology
with the following Grade: A



Principal
Holy Cross College

June, 2022.

HOLY CROSS COLLEGE, Jubatara, Lembucherra P.O., West Tripura -799210 Phone: 0381-2865222, 9402315672, Web: www.holycrosscollege.in

Department of Human Physiology Holy Cross College, Agartala

June, 2022

Report on 'Certificate Course in Laboratory Techniques'.

The admission notice for the Certificate Course in Laboratory Techniques was circulated in the college website on the month of November, 2021. The registration was closed after fulfilling all the seats on December, 2021. The inaugural classes of this certificate course for 1st batch started by the month of December, 2021. The batch consist of students from different Semester of Zoology, Botany, Human Physiology and B.Sc. General Department of Holy Cross College. The classes were held minimum 2 days in a week, including practical, under the supervision of faculty members of Dept. Human Physiology.

In the first class, the syllabus of the course was explained among the students. The students were introduced to different laboratory equipment. The classes were simplified and elaborated by using projector and lab equipment regularly so that the students have minimum doubt. The theory module includes: basic concept on different physiological systems of human body, blood, immune system, vitamins, puberty & adolescence, menstruation, lactation, type I and type II diabetes, arthritis, woman's health and hygiene and how to take care of elderly people, etc. And the practical module includes: microscopy, preparation of blood film and identification of blood cells, determination of blood group, BT, CT, Hb%, TC, DC, blood pressure, usage of colorimeter, anthropometric measurements, qualitative estimation of urine sample, estimation of SGOT/SGPT, basics of fast aid and bacterial cell culture, etc.

After completion of syllabus the examination of the course was held on the month of May, 2022. It comprises of MCQ, practical and viva, which was a standard and effective format to evaluate the knowledge and skills of a student. This examination was necessary for the students enrolled in it in order to earn the course certificate, which was awarded as a proof. All the students cleared the examination with flying colours. The course not only enhanced students' knowledge but also skills and communication. Theory class can give ideal knowledge but practical ones teaches students to how to apply that knowledge, the errors we may face and ways to overcome those errors.

Along with diagnostics applications of the different laboratory techniques, it also introduces one to different field of science and their practical purposes, so that one can identify a respective field to pursue. This is most beneficial to the students of Life Science of our college.

Course Coordinator