

**Holy Cross College, Agartala**  
**Department of Zoology**

No.F.1/HCC//ZOO/Nov/2023/01

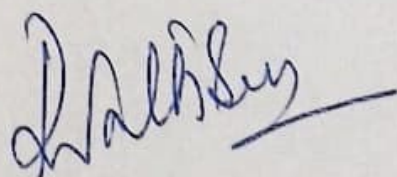
Date: 24.11.2023

**Notice**

This is for information of all the students that the Internal Examination Syllabus (December, 2023) for 1<sup>st</sup> Semester Zoology (Major, Minor, Interdisciplinary) and 3<sup>rd</sup> & 5<sup>th</sup> semester (Honours & General) are as follows:

<b>1st Semester- Major (Core)</b>	
<b><u>1st Semester: Paper 1 (Theory)</u></b>	
<ul style="list-style-type: none"> <li>▪ Parazoa</li> <li>▪ Platyhelminthes</li> <li>▪ Annelida</li> <li>▪ Echinodermata</li> </ul>	
<b><u>1st Semester: Paper 2A (Theory)</u></b>	<b><u>1st Semester: Paper 2B (Practical)</u></b>
<ul style="list-style-type: none"> <li>▪ Poultry</li> </ul>	<ul style="list-style-type: none"> <li>▪ Identification with reasons: (Specimens from the Phylum: Porifera, Platyhelminthes, Annelida, Echinodermata)</li> </ul>
<b>1st Semester- Minor</b>	
<b><u>1st Semester Minor (Theory)</u></b>	<b><u>1st Semester Minor (Practical)</u></b>
<ul style="list-style-type: none"> <li>▪ Protozoa</li> <li>▪ Platyhelminthes</li> <li>▪ Annelida</li> <li>▪ Echinodermata</li> </ul>	<ul style="list-style-type: none"> <li>▪ Identification with reasons: (Specimens from the Phylum: Protozoa, Platyhelminthes, Annelida, Echinodermata)</li> </ul>
<b>1st Semester (Interdisciplinary)</b>	
<ul style="list-style-type: none"> <li>▪ Protozoa</li> <li>▪ Cnidaria</li> <li>▪ Mollusca</li> <li>▪ Reptilia</li> </ul>	
<b>3<sup>rd</sup> Semester (Honours)</b>	
<b><u>3rd Semester (Honours) - Theory</u></b>	<b><u>3rd Semester (Honours) - Practical</u></b>
<ul style="list-style-type: none"> <li>❖ Concept of alleles and multiple alleles.</li> <li>❖ Linkage types and gene mapping.</li> </ul>	

<ul style="list-style-type: none"> <li>❖ Mutation and human genetic disorder.</li> <li>❖ Interspecific interactions in Ecosystem. (Commensalism, Mutualism, Parasitism)</li> <li>❖ Life table and survivorship curves in population ecology.</li> <li>❖ Air and water pollution sources and kinds.</li> <li>❖ Biological magnification and eutrophication.</li> </ul>	<ul style="list-style-type: none"> <li>❖ Population estimation: Capture-Recapture method</li> </ul>
<b>3<sup>rd</sup> Semester (General)</b>	
<u>3<sup>rd</sup> Semester (General) – Theory</u> <ul style="list-style-type: none"> <li>❖ Population ecology, niche.</li> <li>❖ Definitions: Systematics, Taxonomy, Classification, Phenon, Taxon, Category,</li> <li>❖ Binomial and Trinomial nomenclature</li> <li>❖ Binomial Nomenclature- rules.</li> </ul>	<u>3<sup>rd</sup> Semester (General) - Practical</u> <ul style="list-style-type: none"> <li>❖ Determination of population density by Quadrate method</li> </ul>
<b>5<sup>th</sup> Semester (Honours)</b>	
<u>5<sup>th</sup> Semester (Honours) – Theory</u> <ul style="list-style-type: none"> <li>• Adaptation</li> <li>• Generation of action potential and synaptic nerve transmission.</li> <li>• Concept of Biodiversity; types, hotspots, strategies for conservation of biodiversity.</li> <li>• Concept of mean, median, mode and their relationship.</li> <li>• Standard deviation</li> </ul>	<u>5<sup>th</sup> Semester (Honours) - Practical</u> <ul style="list-style-type: none"> <li>• Studies of human blood group</li> <li>• Preparation of haemin crystals</li> <li>• Preparation of human blood film; identification of WBC.</li> </ul>
<b>5<sup>th</sup> Semester (General)</b>	
<u>5<sup>th</sup> Semester (General) – Theory</u> <ul style="list-style-type: none"> <li>• Life cycle, pathogenecity, clinical features and control measures of <i>Plasmodium vivax</i>, <i>Entamoeba histolytica</i> and <i>Ascaris lumbricoides</i>.</li> <li>• Cholera and Tuberculosis</li> </ul>	<u>5<sup>th</sup> Semester (General) - Practical</u> <ul style="list-style-type: none"> <li>• Identification with reasons.</li> <li>• Adaptive features.</li> </ul>



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Holy Cross College  
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**Department of Zoology**

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No.F.1/HCC/ZOO/Nov/2023/02

Date: 28.11.2023

**Notice**

This is for information of all the students and faculty members of department of Zoology that the Internal Examination (December, 2023) for 1<sup>st</sup> Semester Zoology (Major, Minor, Interdisciplinary) and 3<sup>rd</sup> & 5<sup>th</sup> semester (Honours & General) will commence from 4<sup>th</sup> of December, 2023. Teachers of the department are hereby informed to provide questions from their respective topics (included in the syllabus) to the departmental head on or before 29<sup>th</sup> November, 2023. Further laboratory assistant is also informed to do the necessary laboratory preparations for the internal practical examination.



**HoD, Department of Zoology**  
**Holy Cross College, Agartala**

**Head, Dept. of Zoology**  
**Holy Cross College**  
**Agartala**



Following Facts and figures

# HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH A+ GRADE (CYCLE 2)

Tripura University Reg. Code: 17

Jubatara, P.O. Lembucherra, Tripura West Pin-799210

Phone: 0381-2915930, +91 9402315672

email- principalhccagt@gmail.com

Web: www.holycrosscollege.in

## DEPARTMENT OF ZOOLOGY

Date: 03.10.2023

### NOTICE

This is to notify that the department of Zoology, Holy Cross College, Agartala will arrange class test brainstorming sessions for the students of 1<sup>st</sup> semester Major and 3<sup>rd</sup> and 5<sup>th</sup> Semester Honours within 13<sup>th</sup> October, 2023; to evaluate the slow learner and advance learner for the academic year 2023-2024. In connection with this, all the teachers of the department are requested to submit the questions on their concerned topics that has been discussed till date.

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Holy Cross College, Agartala

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Date: 03.10.2023

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## DEPARTMENT OF ZOOLOGY

Dated: 26.09.23

### NOTICE

This is to notify that for the smooth functioning of the department, the faculty members of the department of Zoology have been entrusted with the following responsibilities apart from their regular academic responsibilities:

Name of the Faculty-in-Charge	Area of responsibility
Dr Anamika Bhaumik	<ol style="list-style-type: none"><li>Departmental NEP in-charge</li><li>Teachers' Academic Diary maintenance</li><li>Students' attendance monitoring/informing guardians</li><li>Marks entry</li><li>Supervising the laboratory and departmental library.</li><li>Maintenance of fish tank</li></ol>
Dr. Subhalaxmi Bhattacharjee	<ol style="list-style-type: none"><li>Departmental NAAC in-charge</li><li>Departmental meeting minutes</li><li>Back paper record maintenance</li><li>Preparation of laboratory purchase list</li><li>Monitoring the study plan, lesson plan preparation</li><li>Maintenance of vermicomposting pit.</li></ol>
Dr. Parichita Ray Choudhury	<ol style="list-style-type: none"><li>Departmental website updating in-charge</li><li>Remedial class record maintenance</li><li>Advance learners'/slow learners' record</li><li>Monitoring the result of IA/ESE</li><li>Monitoring of NLIST usage by students/teachers</li><li>Maintenance of butterfly park</li></ol>

S. Bhattacharya  
26/09/23

26/09/2023

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22/11/23

26/09/23

Head, Dept. of Zoology  
Holy Cross College  
Asartala



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Dr. Rumki Nath Sen	<ol style="list-style-type: none"><li>i. Departmental ERP in-charge</li><li>ii. Mentor-mentee records/notice/report</li><li>iii. Class routine/exam routine preparation</li><li>iv. Exam conduction, syllabus distribution</li><li>v. Planning of departmental activities.</li><li>vi. Overall supervision and monitoring of the department and laboratory.</li></ol>
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*Rumki Nath Sen*  
HoD, 26/09/23

Department of Zoology,  
Holy Cross College, Agartala.

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Dated: 26.09.23

## NOTICE

This is to notify that for the smooth functioning of the department, laboratory assistant of the department of Zoology has been entrusted with the following responsibilities:

1. Laboratory maintenance
2. Maintenance of Stock register
3. Students' attendance register maintenance
4. Maintenance of the departmental desktop

*[Handwritten Signature]*  
26/09/23

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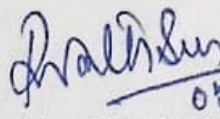
Ref. No.F/A/HCC/NEP/ /2023.01

DATE:5/09/2023

## Notice

This is to inform you that the following faculty members have been assigned to Environmental Studies (Foundation Course) for the upcoming academic year (2023-2024):

1. Dr. Parichita Ray Choudhury, Assistant Professor, Department of Zoology
2. Dr. Somnath Kar, Assistant Professor, Department of Botany
3. Dr. Anamika Bhaumik, Department of Zoology.

  
05/09/2023

**Dr. Rumki Nath Sen**  
Assistant Professor & HOD  
Department of Zoology  
Holy Cross College, Agartala

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Holy Cross College  
Agartala.