



GOVERNMENT OF WEST BENGAL  
OFFICE OF THE PRINCIPAL  
*Maulana Azad College*



8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA

Phone: 033 2249-3737/2226-7814 e-mail: [maulanaazadcollegekolkata@gmail.com](mailto:maulanaazadcollegekolkata@gmail.com)

Website: <https://maulanaazadcollegekolkata.ac.in>

Summary Report, Meeting Notice, Meeting Resolution, Course  
Brochure/Curriculum, Course outcomes, Sample Certificate

**25. HANDS ON TRAINING ON INSECTS AND PARASITES OF PUBLIC HEALTH IMPORTANCE**

**Summary Report**

Course Name: **HANDS ON TRAINING ON INSECTS AND PARASITES OF PUBLIC HEALTH IMPORTANCE**

Course Code: **AD-ZOO-22-23-01**

Organizing Department: **Department of Zoology**

Course Duration: **30 Hours (09-12-2022-20.12.2022)**

No. of Enrolled Students: 24

No. of student completed the course: 22

**Course Outcomes**

- **Brief introduction of this Course:** In this course, students will develop an understanding of important human parasitic diseases, including their life cycles, vectors of transmission, distribution and epidemiology, pathophysiology and clinical manifestations, treatment, and prevention and control. To give the students a hands-on exposure on some topics which they theoretically studied in their course curriculum but didn't have practical exposure.
- **Outcome of the course:** On completion of the course  
The participants will gain a brief hands-on exposure to protozoa, helminths, and arthropod as parasites and vectors from different sources. They will be able to recognize parasites which are important for human health and other animals and cause disease. They recognize specific and nonspecific parasites in humans. They will be able to comprehend the protection from parasites depending on parasite species and treatment methods. They will gain the detailed technical know-how of vector biology. This may help them in their higher studies and also to pursue a career in the field of parasitology and medical entomology.



Principal  
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**Departmental Meeting Notification & Resolution**

Maulana Azad College, Kolkata  
Post Graduate Department of Zoology

No Z/Gen/72


Notice

Date 05.11.2022

This is to notify that a DC meeting will be held on 05.11.2022 at 12.15 pm in the departmental room to discuss the following agenda:

1. Add-on-Course for the session 2022-2023
2. Matters arising


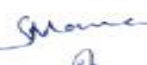



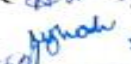


All esteemed colleagues are requested to attend the meeting.

  
Principal  
Maulana Azad College

  
Head  
P.G. Department of Zoology  
Maulana Azad College  
Govt. of West Bengal  
Kolkata - 700013

Meeting held on 5/11/2022

Members present: -

- 1) Dr. Dipak K. Sam  5/11/22
- 2) Dr. Sanjuleta Mauna 
- 3) Dr. S. Roykannakar 
- 4) Dr. Abhishkek Mukherjee  5/11/22 
- 5) Dr. Nabanita Ghosh  5/11/22
- 6) Dr. S. K. Ghosal 
- 7) Dr. P. Sengupta  5/11/22

Resolved that the Dept. of Zoology will organize one hands on training on 'Insects and Parasites of Public health importance' which will be considered as Add-on-Course

 5/11/22

 5/11/22







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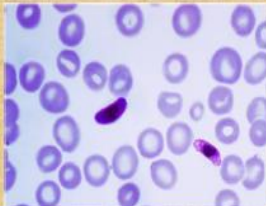
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**Course Brochure / Curriculum**

• **Flyer of the Course**

**ADD-ON COURSE ON**  
**HANDS ON TRAINING ON INSECTS AND PARASITES OF PUBLIC HEALTH IMPORTANCE**  
Conducted by

  
*Internal Quality Assurance Cell*  
&  
*Department of Zoology*  
*Maulana Azad College*  
8, Rafi Ahmed Kidwai Road, Kolkata-13



**Duration: 30Hours (09.12.2022-20.12.2022)**

All interested B.Sc.(Hons) students are eligible for this course.  
For details contact with Course Coordinator  
**No registration fee required**  
Certificate will be issued on completion of the course  
Coordinator: Dr Dipak Kumar Som and Dr Sanjukta Manna

**Email: [zoology@maulanaazadcollegekolkata.ac.in](mailto:zoology@maulanaazadcollegekolkata.ac.in)**



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## Curriculum/Syllabus:

### ADD-ON-COURSE

#### **HANDS ON TRAINING ON INSECTS AND PARASITES OF PUBLIC HEALTH IMPORTANCE**

##### Course Curriculum

- **Title:** Add on Course on 'Hands on training on insects and parasites of public health importance
- **Venue:** Department of Zoology, Maulana Azad College, Kolkata -13
- **Duration:** 09.12.2022-20.12.2022
- **Span of the Course:** 30 hours
- **Brief introduction of this Course:** In this course, students will develop an understanding of important human parasitic diseases, including their life cycles, vectors of transmission, distribution and epidemiology, pathophysiology and clinical manifestations, treatment, and prevention and control. To give the students a hands-on exposure on some topics which they theoretically studied in their course curriculum but didn't have practical exposure.
- **Outcome of the course:** On completion of the course  
The participants will gain a brief hands-on exposure to protozoa, helminths, and arthropod as parasites and vectors from different sources.  
They will be able to recognize parasites which are important for human health and other animals and cause disease. They recognize specific and nonspecific parasites in humans. They will be able to comprehend the protection from parasites depending on parasite species and treatment methods. They will gain the detailed technical know-how of vector biology. This may help them in their higher studies and also to pursue a career in the field of parasitology and medical entomology.
- **Course Coordinators:** Dr. Dipak Kumar Som & Dr. Sanjukta Manna
- **Facility requirements within college premise:** all facilities will be provided by the department.
- **Full Marks for this Course:** 20
- **Mode of Examination:** Offline MCQ test at the final day of the course
- **Books, Study materials, Journals & other necessary references:** softcopy of study materials provided to the participants



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- **Syllabus:** Introduction to parasites and vectors and their importances, techniques of collecting parasites, identification and vector surveillance, Blood sample collection: used to diagnose *Plasmodium* sp., *Babesia* sp., *Trypanosoma*, *Microfilaria* preparing thick and thin blood film, Preparation of chemicals for permanent slide preparation and preservation, *Anopheles* sp., *Culex* sp., *Aedes* sp. male female identification and genus differentiation, mouthparts dissection. Their role in disease transmission through lecture method and using ICT, Detailed information of mechanical and biological vector and vector borne diseases: *Musca* sp., *Pediculus* sp., *Cimex* sp., Fecal sample for parasitological investigation : used to diagnose parasite eggs, larvae, oocysts, cysts, Trophozoites, cestode segments adults, Preparation of chemicals for preserving faecal materials, Microscopic examination of feces: Direct smear, Concentration methods for floatation and sedimentation, Quantitative fecal examination through Stoll's technique, Insects in Medico-Legal Investigations: Pattern of insect succession on carcass; Postmortem Interval (PMI) and its estimation process; Applications and limitations, Non-Insect Arthropods of Medical Importance: Ticks, Mites, Cyclops,
- **Detailed Programme**

Day 1	Introduction to parasites and vectors and their importances, Techniques of collecting parasites, identification and vector surveillance
Day 2	Blood sample collection: used to diagnose <i>Plasmodium</i> sp., <i>Babesia</i> sp., <i>Trypanosoma</i> , <i>Microfilaria</i> preparing thick and thin blood film, Preparation of chemicals for permanent slide preparation and preservation
Day 3	<i>Anopheles</i> sp., <i>Culex</i> sp., <i>Aedes</i> sp. male female identification and genus differentiation, mouthparts dissection. Their role in disease transmission through lecture method and using ICT
Day 4	Detailed information of mechanical and biological vector and vector borne diseases: <i>Musca</i> sp., <i>Pediculus</i> sp., <i>Cimex</i> sp.,
Day 5	Fecal sample for parasitological investigation : used to diagnose parasite eggs, larvae, oocysts, cysts, Trophozoites, cestode segments adults, Preparation of chemicals for preserving faecal materials
Day 6	Microscopic examination of feces: Direct smear, Concentration methods for floatation and sedimentation, Quantitative fecal examination through Stoll's technique
Day 7	Insects in Medico-Legal Investigations: Pattern of insect succession on carcass; Postmortem Interval (PMI) and its estimation process; Applications and limitations
Day 8	Non-Insect Arthropods of Medical Importance: Ticks, mites, cyclops
Day 9	Evaluation and feedback
Day 10	Issuance of certificates and announcement of next course



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**Evolution procedure.**

It has been resolved that the evaluation process consist of the following.

- Question preparation (Theory / Practical): Full Marks 20
- For theory paper there will be short answer type and long answer type questions and time of examination 3 hours.
- For practical paper time of examination 4 hours.
- Evaluation of answer scrips and Tabulation as decided by the coordinator.

(e) Grade and Marks as per following table:

Grade Scale	Grade	Performance Indicator
90-100	AA	Outstanding
80-89	A+	Excellent
60-79	A	Very Good
40-59	B	Satisfactory
< 40	D	Disqualified

**. Issue of Certificate**

It has been resolved that the certificate will be issued to those candidates who have successfully completed the course. The coordinator should prepare a brief report of the course after taking feedback from the participants and the difficulties if any for smooth running the course.



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**Sample Certificate**

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No. -----

*Course Completion Certificate*

*This is to certify that -----, bearing Enrollment No. ----- has actively participated and successfully completed 30 hours add-on course on “Hands On Training On Insects And Parasites Of Public Health Importance” organized by the Department of Zoology in association with IQAC, in the period 9<sup>th</sup> December to 20<sup>th</sup> December, 2022 and secured grade ---.*

  
**Course Coordinator**

  
**IQAC Coordinator**

  
**Principal**



Principal  
Maulana Azad College  
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