



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, Evaluation process, Sample Certificate

## 5. Hands on training on Statistical Softwares

### Summary Report

Course Name: **Hands on training on Statistical Softwares.**

Course Code: **AD-ZOO-19-20-01**

Organizing Department: **Department of Zoology**

Course Duration: **30 Hours (19.12.2019 - 09.01.2020)**

No. of Enrolled Students: 80

No. of student completed the course: 80

#### **Course Objectives:**


In this course, students will develop an understanding of important statistical softwares used in biological sciences. They will have an opportunity to have hands on training on the softwares like MS

EXCEL, SPSS, STATISTICA etc. They will also get a basic knowledge how to use statistics in biological experiments. The students will gain a hands-on exposure on some topics of statistics which they theoretically studied in their course curriculum but didn't have any knowledge of using software to solve the statistical problem by utilizing softwares .

**Course Outcomes:** On completion of the course

The participants will gain a brief hands-on exposure of using modern statistical softwares. They will also gain a brief idea about why and how to use statistics in biological experiments. They will also learn how to use software during solving problems of different statistical problems which they had studied in curriculum.

These objectives and outcomes of the course's specific focus and the level of depth intended.

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



  
Principal  
Maulana Azad College  
Kolkata-13



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>

**Departmental Meeting Notification**

Maulana Azad College, Kolkata  
Post Graduate Department of Zoology

No Z/Gen/70


Notice

Date: 11.11.2019

This is to notify that a DC meeting will be held on 15.11.2019 at 12.15 pm in the departmental room to discuss the following agenda:

1. Confirmation of previous meeting
2. Add-on-Course for the session 2019-2020

All esteemed colleagues are requested to attend the meeting.

  
Principal  
Maulana Azad College  
Kolkata

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



  
Principal  
Maulana Azad College  
Kolkata-13



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>

### Departmental Meeting Resolution

The meeting commenced at 12:15 p.m. with a welcome address by the Head of the Department.

#### **Discussion on Add-On Courses:**

The necessity and relevance of the proposed courses were discussed. It was unanimously agreed that the course 'Hands on training on Statistical Softwares' will be continued in the session 2019-20 to enhance the statistical skills of the students of Bio-Sciences. All the rules of the Institution for the said course will be followed strictly.

Members Present:

1. Dr. Dipak K. Som *D.K. Som*
2. Dr. Sanjukta Manna *S.Manna*
3. Dr. Rajarshi Ghosh *R. Ghosh*
4. Dr. P. Sengupta *Psy*
5. Dr. Abhishek Mukherjee *Amr*
6. Dr. Nabanita Ghosh *Ny*
7. Dr. S. K. Bhowal *S.K. Bhowal*
8. Dr. S. Roy Karmakar *S.R. Karmakar*

Resolved that the Dept of Zoology will organize one "Hands on training on Statistical Softwares" which will be considered as Add-on course. *R. Ghosh*

*Sanna Psy*

#### **Selection of Course Coordinators:**

After detail discussion, the department has decided that Dr. Dipak Kumar Som / Dr. Abhishek Mukherjee will act as course coordinator(s).



Principal  
Maulana Azad College  
Kolkata-13



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>

### Syllabus Review:

It has been resolved that the respective course coordinator will be responsible for reviewing the syllabus for both courses.

### Evaluation Process:

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

- Question preparation (Theory + Practical): Full Marks 20
- For practical paper time of examination 2 Hours.
- Evaluation of answer scripts and Tabulation as decided by the coordinator.
- 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 Certificates:

- Certificates will be issued to students upon successful completion of the courses.
- The design and content of the certificates will be overseen by the course coordinators.

### Additional Suggestions:

- Regular feedback will be collected from students to ensure continuous improvement of the courses.
- 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.



Principal  
Maulana Azad College  
Kolkata-13



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>

## Course Brochure / Curriculum

### ADD-ON-COURSE Statistical Softwares

**Course Title:** Add on Course on “Hands on training on Statistical Softwares”

**Venue:** Department of Zoology, Maulana Azad College, Kolkata -13

**Duration:** 02.05.2019 to 31-5.2019

**Span of the Course:** 30 hours

**Brief introduction of this Course:**

In this course, students will develop an understanding of important statistical softwares used in biological sciences. They will have an opportunity to have hands on training on the softwares like MS EXCEL, SPSS, STATISTICA etc. They will also get a basic knowledge how to use statistics in biological experiments. The students will gain a hands-on exposure on some topics of statistics which they theoretically studied in their course curriculum but didn't have any knowledge of using software to solve the statistical problem by utilizing softwares .

**Outcome of the course:**

On completion of the course the participants will gain a brief hands-on exposure of using modern statistical softwares. They will also gain a brief idea about why and how to use statistics in biological experiments. They will also learn how to use software during solving problems of different statistical problems which they had studied in curriculum.

**Course Coordinators:** Dr. Dipak Kumar Som / Dr. Abhishek Mukherjee



Principal  
Maulana Azad College  
Kolkata-13



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>

**Facility requirements within college premise:** all facilities will be provided by the department.

**Full Marks for this Course:** 20

**Mode of Examination:** Practical test for evaluate the understanding of the use of softwares, in computer, at the final day of the course were done.

**Books, Study materials, Journals & other necessary references:** softcopy of instruction manuals for softwares provided to the participants

**Syllabus:** Introduction to basic statistical tests and statistical softwares. It also covers basic concepts of Statistics focusing on the collection, presentation and summarization of data. A relatively comprehensive description of statistical inference on means and proportions is also a part of this programme. How to use the softwares like MS EXCEL, SPSS, STATISTICA etc. in PC. Data analysis and Solving of different Statistical test like mean, median, mode, Chi-square, T-test, Z Test, ANOVA using the above mentioned softwares. Why, when and which statistical tests should we use in biological experiment and solving them by softwares. Finally using software solving linear correlation and regression analysis.

**•Detailed Programme**

Day 1	Introduction to basic statistical tests and statistical softwares
Day 2	Collection, presentation and summarization of data
Day 3	Why, where and when to use statistics in biological problem
Day 4	How to use software to find out results of different tests like Mean, Median, Mode
Day 5	Solving Chi-square, T-test, Z- Test, by different software.
Day 5	Solving ANOVA by SPSS and MS EXCEL
Day 7	Solving linear correlation and regression analysis.
Day 8	Analysis of the result coming from the different test from different softwares.
Day 9	Evaluation and feedback
Day 10	Issuance of certificates



Principal  
Maulana Azad College  
Kolkata-13



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>

**Permission from HOI**

To

Date: 18.11.2019

The Principal

Sub: Permission for the add-on course '**Hands on training on Statistical Softwares**'

Sir,

This is to convey that the Department of Zoology has resolved in the meeting held on 15.11.2019 that the add-on course on '**Hands on training on Statistical Softwares**' will be continued in the session 2019-20. We Shall remain grateful if you very kindly give permission for this course.

With regards,

Yours Faithfully,

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



Principal  
Maulana Azad College  
Kolkata-13



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>

**Sample Certificate**

 *Maulana Azad College* 

8, Rafi Ahmed Kidwai Road, Kolkata-700013, India.

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 Statistical Softwares" organized by the Department of Zoology in association with IQAC, in the period 19<sup>th</sup> December, 2019 to 9<sup>th</sup> January, 2020 and secured grade ---.*

  
**Course Coordinator**

  
**IQAC Coordinator**

  
**Principal**



  
Principal  
Maulana Azad College  
Kolkata-13