



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

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

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

11. Chemistry of Life

Summary Report of the Course

Course Name: **Chemistry of Life.**

Course Code: **AD-CEM-21-22-01**

Organizing Department: **Department of Chemistry**

Course Duration: **30 Hours (02.05.2022 - 31.05.2022)**

No. of Enrolled Students: 26

No. of student completed the course: 26

Course Objectives:

Objectives

The main objective of the course is to develop an appreciation on the role of nature in our everyday life. The study is based on organic molecules isolated from various natural products that are essential for our growth and development. A great diversity of compounds which are primary and secondary metabolites of different natural products can have a great variety of biological activities. The study aims to advance the knowledge and increase the skill of the students of the department of chemistry in the field of bio active molecules which they have studied in their core courses. This will provide a holistic learning with a comprehensive understanding of the subject. It may assist the students in identifying their interest for higher studies.

Course Outcomes:

Programme Outcome

- Comprehending the intricate concept of chemistry
- To promote the development of analytical approach for problem solving
- To enhance practical laboratory skills
- To encourage the students for logical thinking outside their course curriculum
- To motivate the students for higher education and take up research as a career



Principal
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Departmental Meeting Notice

Department of Chemistry

Maulana Azad College

Notice: 02.11.2021

A Departmental meeting will be held on **17.11.2021** at **2:00 p.m.** to introduce **ADD-ON** courses in our department. All are requested to attend the meeting positively.

Agenda:

1. Course Title(s) and Year(s) of Implementation
2. Selection of course coordinator(s).
3. Framing of course curriculum
4. Eligibility criteria of students
5. Evaluation procedure and Issue of certificate.


Head

Department of Chemistry



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Departmental Meeting Resolution

MEMBERS PRESENT: —

- | | |
|----------------------|---------------------|
| 1) <i>ganga</i> | 6) <i>Sanju Das</i> |
| 2) <i>Rajesh Das</i> | 7) <i>Shikha</i> |
| 3) <i>Sonu</i> | 8) <i>Anurag</i> |
| 4) <i>Anubheji</i> | 9) |
| 5) <i>Esmeralda</i> | |

Resolutions of the meeting: —

- 1) It is resolved that 2 Add-on courses based on hands-on-training/practical experiment ^{shall} ~~will~~ be conducted in the academic sessions 2021-22 and 2022-23
- 2) ~~It~~ It is resolved that course Titles of the 2 courses will be
 - i) Chemistry of life in session 2021-22
 - ii) Food Adulteration and Quality Management in 2022-23
- 3) Resolved that course duration shall be minimum 30 hours (as per UGC norms)



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- 4) Resolved that Coordinator for session 2021-22 Add-on course shall be Dr. Sucheta Singha, Associate Professor
- 2) Coordinator for session 2022-23 Add-on course shall be Dr. Gouram Kr. Mondal, Associate Professor.
- 5) Resolved that the Coordinators shall frame the course curriculum, duration of course & tentative schedule.
- 6) It is resolved that Eligibility of Add-on course shall be B.Sc. Chemistry 3rd year (Sem-6/5) and 2nd year (Sem-4/3) students of the department.
- 7) It is resolved that evaluation shall be made on the basis of Viva-voce after completion of the said course.
- 8) It is resolved that the Full Marks of the Viva-voce shall be 25 marks.
- 9) Resolved that students shall be provided Grades after evaluation as follows: A
A → 90-100% marks; B → 80-89% ; C → 60-79% ; D → 40-59%
Below 40% is fail.
- 10) After successful completion of the course, securing >40% marks, students shall be provided with certificate.



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Course Brochure/Curriculum

MAULANA AZAD COLLEGE
DEPARTMENT OF CHEMISTRY
ADD-ON CERTIFICATE COURSE
Chemistry of Life

Objectives

The main objective of the course is to develop an appreciation on the role of nature in our everyday life. The study is based on organic molecules isolated from various natural products that are essential for our growth and development. A great diversity of compounds which are primary and secondary metabolites of different natural products can have a great variety of biological activities. The study aims to advance the knowledge and increase the skill of the students of the department of chemistry in the field of bio active molecules which they have studied in their core courses. This will provide a holistic learning with a comprehensive understanding of the subject. It may assist the students in identifying their interest for higher studies.

Course Duration

Theoretical : 10 hours Hands on : 20 hours Total : 30 Hours

Eligibility

B.Sc. Chemistry Honours students

Curriculum

Module 1 isolation and characterization of casein from milk

Module 2 isolation and characterization of cholesterol from egg yolk

Module 3 isolation and characterization of DNA from onion

Module 4 isolation and characterization of lycopene from tomato

Module 5 isolation and characterization of caffeine from tea

Evaluation

Assessment of the students will be done through seminar /viva voce.

Certificates will be provided on successful completion of the course.



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Permission from HOI

To
The Principal
Maulana Azad College, Kolkata

Date: 19.11.2021

Respected Sir,

The Department of Mathematics, Maulana Azad College, has resolved in the online meeting held on 17.11.2021 that an add-on course for B.Sc.(H) students will be conducted from 02.05.2022 to 31.05.2022 on '**Chemistry of Life**'. The details of the proposed course are attached. We Shall remain grateful if you very kindly give permission to pursue the aforesaid course.

With regards,
Yours Faithfully,

Head
Department of Chemistry
MAULANA AZAD COLLEGE
Kolkata-700013
Govt. Of West Bengal

Principal
Maulana Azad College
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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 "Chemistry of
Life" organized by the Department of Chemistry in association with IQAC, in the period 2nd
May, 2022 to 31st May, 2022 and secured grade ---.*

[Signature]
Course Coordinator

[Signature]
IQAC Coordinator

[Signature]
Principal



Principal
Maulana Azad College
Kolkata-13