

HONOURS CERTIFICATE PROGRAMME PROPOSAL
AY 2021-2022
Department of Life Science and Biochemistry

Activities:

- I. To prepare a graphical abstract for a scientific paper
- II. Gardening in Small Spaces
- III. Book Review

General Information of the Activity	
1.	Department and Hub Life Science and Biochemistry Biological Hub
2.	Title of the Activity To prepare a graphical abstract for a scientific paper
3.	Name of the Professors taking the course and Email address Dr. Sangeeta Shetty sangeeta.shetty@xaviers.edu Dr. Priya Sundarrajan priya.s@xaviers.edu
4.	Name/s of the Resource person/s NIL
5.	Name of the Dept Coordinator and Email address Dr. Manasi Kanuga manasi.kanuga@xaviers.edu
6.	Name of the Hub Coordinator and Email address Dr. Priya Sundarrajan priya.s@xaviers.edu
7.	Number of credits for the activity and number of hours 2 credits 30 hours
8.	Fees 500/-
9.	Eligibility TYBSc of All Biology Departments
10.	Number of students 10
11.	Duration and Time 3 months

Details of the Activity	
1	Title: To prepare a graphical abstract for a scientific paper
2	<p>Learning Objectives: Most of the journals need graphical abstract for the article to be published. The proposed activity will help the student to:</p> <ol style="list-style-type: none"> a. Read a recent paper on his / her topic of interest. b. Will push the student to cross reference to have a better understanding of the nuances of the study. c. Allow the student to blend their creativity and technical skills.
3	<p>Learning Outcomes:</p> <ol style="list-style-type: none"> a. the student will comprehend the results of the study. b. the students will be able to convey the message of the research paper in a clear and effective manner. c. the student will be confident in using the online software used to make Graphical abstracts.
4	<p>Description A Graphical abstract is a visual representation of a scientific study. It helps in understanding the summary of the paper at a glance. Most of the journals have made graphical abstracts mandatory for the article to be published. This HONORS Certificate Program aims to train the students to make Graphical abstracts.</p>
5.	<p>Evaluation: Continuous, Graphical abstract made and Presentation on the abstract made</p>
6.	<p>Modules if any: None</p>

General Information of the Activity	
1.	Department and Hub Life Science & Biochemistry Biological Sciences Hub
2.	Title of the Activity Gardening in Small Spaces
3.	Name of the Professor taking the course and Email address Dr Maya Murdeshwar maya.murdeshwar@xaviers.edu
4.	Name/s of the Resource person/s Dr Vijaya Chakravarty
5.	Name of the Dept Coordinator and Email address Dr Manasi Kanuga manasi.kanuga@xaviers.edu
6.	Name of the Hub Coordinator and Email address Dr Priya Sundarajan priya.s@xaviers.edu
7.	Number of credits for the activity and number of hours 4 credits, 60 hours (Part A: 2 credits, 30 hours – Odd semester Part B: 2 credits, 30 hours – Even semester)
8.	Fees Rs.1,500/- (Rupees one thousand five hundred only)
9.	Eligibility FY, SY, TY students from any department
10.	Number of students 10
11.	Duration and Time 1 year Weekly lecture-cum-hands-on training sessions for the first 2 months, followed by monthly meets till the end of each semester.

Details of the Activity	
1	Title: Gardening in Small Spaces
2	<p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. The programme will cover the basics of urban gardening and plant care by a nationally renowned Landscaping artist. 2. Landscaping theories and their application to small spaces will be discussed. 3. Growing flowering, fruiting, medicinal plants and vegetables and microgreens will be taught. 4. Composting, vermicomposting, biopesticides against plant diseases and plant nutrient deficiencies and their cure using biofertilizers will be detailed. 5. Native Indian plant and tree species and their various medicinal and culinary uses will be explained with recipes. 6. Hands-on training and demonstrations will be conducted to ensure proper understanding of the concepts studied.
3	<p>Learning Outcomes:</p> <p>Participants will</p> <ol style="list-style-type: none"> 1. Gain insights into the fundamentals of gardening and plant care and nurturing, including potting, pruning, curing pathogenic and deficiency disorders using biopesticides and biofertilizers. 2. Learn to apply landscaping theories from different parts of the world, including ancient and modern India, to their own gardens. 3. Gain hands-on experience in cultivating their own balcony/ window-sill gardens and growing microgreens. 4. Learn to make healthy food choices by correlating health and nutrition to organically and sustainably grown vegetables and herbs in their own gardens. 5. Gain knowledge about traditional Indian species and their use in Indian kitchens and as home remedies. 6. Learn the joy of gardening and leading a natural life even in urban cities.
4	<p>Description:</p> <p>Over the duration of 1 year, participants will learn to cultivate their own window sill / balcony/ terrace gardens in an ecofriendly, sustainable manner, using components easily available at home. Information on indoor plants, microgreens, herbs, flowering plants and food plants, factors affecting their growth, proper potting and care of plants in terms of organic nutrients, fertilizers, pesticides will be provided by gardening experts. Hands-on training sessions and demonstrations will form an integral part of the course. The focus will be on growing a garden in the small and restricted spaces of city homes. Evaluation will be based photo-documentation of cultivating their own eco-friendly, sustainable and low-cost garden.</p>
5	<p>Modules if any:</p> <p>None</p>

General Information of the Activity	
1.	Department and Hub Life Science & Biochemistry Biological Sciences Hub
2.	Title of the Activity Book Review
3.	Name of the Professor taking the course and Email address Dr Maya Murdeshwar maya.murdeshwar@xaviers.edu
4.	Name/s of the Resource person/s Dr Maya Murdeshwar
5.	Name of the Dept Coordinator and Email address Dr Manasi Kanuga manasi.kanuga@xaviers.edu
6.	Name of the Hub Coordinator and Email address Dr Priya Sundarajan priya.s@xaviers.edu
7.	Number of credits for the activity and number of hours 2 credits, 30 hours
8.	Fees Rs.500/- (Rupees Five hundred only)
9.	Eligibility FY, SY, TY students from any department
10.	Number of students 10
11.	Duration and Time 6 months (Monthly 1 hour contact sessions + final Book Club presentation)

Details of the Activity	
1	Title: Book Review
2	Learning Objectives: <ol style="list-style-type: none"> 1. The programme will discuss the basic tenets of writing a Book review. 2. Book reviews for different platforms (publishing house, newspaper, e-marketing platforms) will be reviewed. 3. Oral narration of the review to a layperson audience will be explored.
3	Learning Outcomes: Participants will <ol style="list-style-type: none"> 1. Gain insights into the fundamentals of book review writing. 2. Learn to critically analyze the contents of a book and write a balanced review on it. 3. Learn to modify the review for a newspaper/ publishing house/ e-marketing platform. 4. Sharpen their presentation skills by narrating their review in an interesting and enticing manner in the Book Club.manner in the Book Club.
4	Description: Students will select a non-fiction book (minimum pages: 500), preferably in hard copy and not an e-version, in a subject area of their choice and read, critically evaluate and write a review on it. The fundamentals of ‘Writing a Book Review’ will be explained. Evaluation will be based on the hand-written book review submitted. A Book Club will be held at the end, where each student will share insights from the book that they read. Evaluation will be based on the technical correctness of the written book review.
5	Modules if any: None