

**Interdisciplinary Honours:**

**HONOURS CERTIFICATE PROGRAMME PROPOSAL  
AY 2023-2024**

<b>General Information of the Activity</b>		
1.	<b>Department and Hub</b>	Life Science and Biochemistry Biological Hub/Interdisciplinary
2.	<b>Title of the Activity</b>	<b>To prepare a graphical abstract for a scientific paper</b>
3.	<b>Name of the Professors taking the course and Email address</b>	Dr. Priya Sundarrajan priya.s@xaviers.edu
4.	<b>Name/s of the Resource person/s</b>	NIL
5.	<b>Name of the Dept Coordinator and Email address</b>	Dr. Manasi Kanuga manasi.kanuga@xaviers.edu
6.	<b>Name of the Hub Coordinator and Email address</b>	Dr. Priya Sundarrajan priya.s@xaviers.edu
7.	<b>Number of credits for the activity and number of hours</b>	2 credits 30 hours
8.	<b>Fees</b>	750/-
9.	<b>Eligibility</b>	SY and TYBSc students of All Science Departments
10.	<b>Number of students</b>	10
11.	<b>Duration and Time</b>	3 months

<b>Details of the Activity (To prepare a graphical abstract)</b>	
1	<b>Title:</b> To prepare a graphical abstract for a scientific paper
2	<p><b>Learning Objectives:</b>  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"> <li>a. Read a recent paper on his / her topic of interest.</li> <li>b. Will push the student to cross reference to have a better understanding of the nuances of the study.</li> <li>c. Allow the student to blend their creativity and technical skills.</li> </ol>
3	<p><b>Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>a. the student will comprehend the results of the study.</li> <li>b. the students will be able to convey the message of the research paper in a clear and effective manner.</li> <li>c. the student will be confident in using the online software used to make Graphical abstracts.</li> </ol>
4	<p><b>Description</b>  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><b>Evaluation:</b>  Continuous, Graphical abstract made and Presentation on the abstract made</p>
6.	<p><b>Modules if any: None</b></p>

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AY 2023-2024**

<b>General Information of the Activity</b>		
1.	<b>Department and Hub</b>	Life Science & Biochemistry Biological Sciences Hub/ Interdisciplinary
2.	<b>Title of the Activity</b>	Book Review (Interdisciplinary activity)
3.	<b>Name of the Professor taking the course</b>	Dr Maya Murdeshwar <a href="mailto:maya.murdeshwar@xaviers.edu">maya.murdeshwar@xaviers.edu</a>
4.	<b>Name/s of the Resource person/s</b>	Dr Maya Murdeshwar
5.	<b>Name of the Dept Coordinator and Email address</b>	Dr Manasi Kanuga <a href="mailto:manasi.kanuga@xaviers.edu">manasi.kanuga@xaviers.edu</a>
6.	<b>Name of the Hub Coordinator and Email address</b>	Dr Priya Sundarajan <a href="mailto:priya.s@xaviers.edu">priya.s@xaviers.edu</a>
7.	<b>Number of credits for the activity and number of hours</b>	2 credits (30 hours)
8.	<b>Fees</b>	Rs.500/- (Rupees five hundred only)
9.	<b>Eligibility</b>	SY and TY students from any discipline
10.	<b>Number of students</b>	10
11.	<b>Duration and Time</b>	5 months (Aug. – Dec. 2023)

<b>Details of the Activity</b>	
1	<b>Title:</b> Book Review
2	<b>Learning Objectives:</b> <ol style="list-style-type: none"> <li>1. The programme will discuss the basic tenets of writing a Book review.</li> <li>2. Book reviews for different platforms (publishing house, newspaper, e-marketing platforms) will be reviewed.</li> <li>3. Oral narration of the review to a layperson audience will be explored.</li> </ol>
3	<b>Learning Outcomes:</b> Participants will <ol style="list-style-type: none"> <li>1. Gain insights into the fundamentals of book review writing.</li> <li>2. Learn to critically analyze the contents of a book and write a balanced review on it.</li> <li>3. Learn to modify the review for a newspaper/ publishing house/ e-marketing platform.</li> <li>4. Sharpen their presentation skills by narrating their review in an interesting and enticing manner in the Book Club.</li> </ol>
4	<b>Description</b> Students are expected to select a non-fiction book in a subject area of their choice, read, critically evaluate and write a review. The tenets of writing a Book Review will be explained by the activity in-charge. A Book Club will be held at the end, with each student sharing their review with others and rating the book. Evaluation will be based on attendance at the monthly meetings and the written book review.
5	<b>Modules if any</b> None

**HONOURS CERTIFICATE PROGRAMME PROPOSAL  
AY 2021-2022**

<b>General Information of the Activity</b>		
1.	<b>Department and Hub</b>	Life Science & Biochemistry Biological Sciences Hub/ Interdisciplinary
2.	<b>Title of the Activity</b>	<b>Student perception of STEM education and career opportunities in India</b>
3.	<b>Name of the Professor taking the course</b>	Dr. Sangeeta Shetty <a href="mailto:sangeeta.shett@xaviers.edu">sangeeta.shett@xaviers.edu</a> Dr. Binoj Kutty <a href="mailto:binoj.kutty@xaviers.edu">binoj.kutty@xaviers.edu</a>
4.	<b>Name/s of the Resource person/s</b>	Dr. Sangeeta Shetty Dr. Binoj Kutty
5.	<b>Name of the Dept Coordinator and Email address</b>	Dr. Manasi Kanuga <a href="mailto:manasi.kanuga@xaviers.edu">manasi.kanuga@xaviers.edu</a>
6.	<b>Name of the Hub Coordinator and Email address</b>	Dr. Priya Sundarrajan <a href="mailto:priya.s@xaviers.edu">priya.s@xaviers.edu</a>
7.	<b>Number of credits for the activity and number of hours</b>	Credit: 02 Number of hours-30
8.	<b>Fees</b>	500
9.	<b>Eligibility</b>	TY BMS/ BMM/ BSc students
10.	<b>Number of students</b>	04
11.	<b>Duration and Time</b>	3 months

<b>Details of the Activity</b>	
1	<b>Title: Student perception of STEM education and career opportunities in India</b>
2	<p><b>Learning Objectives:</b>  <b>The objectives of this assignment are to train students to:</b></p> <ol style="list-style-type: none"> <li>a. To assess the perceptions of STEM careers and opportunities among teachers, parents and students.</li> <li>b. Examine the influence of teachers on the students` choice of science subjects for future career in STEM.</li> <li>c. Identify the challenges/barriers faced by students studying STEM subjects.</li> </ol>
3	<p><b>Learning Outcomes:</b>  Through this survey assignment the student will be able to:</p> <ol style="list-style-type: none"> <li>a. Outline the research problem, decide on the sample size and the target population of respondents.</li> <li>b. Prepare an effective questionnaire that will help gauge the barriers / factors that influence the student`s decision to take up higher education / career in science.</li> <li>c. Apply statistical and management principles to evaluate the responses.</li> <li>d. Interpret and discuss possible modifications / measures that can be taken to improve student enrollment in science.</li> </ol>
4	<p><b>Description</b>  Student perceptions of a subject/ field play an important role in their career choices. Currently in India the number of students pursuing higher education in STEM subjects is on a decline. Though the Central Government has instituted schemes such as DST INSPIRE and others to motivate students towards higher education in science, educators feel that these are not enough. Higher levels of scientific literacy should be made available to all students regardless of age/ sex/ caste etc. This study aims to understand the barriers and the perceptions of the students towards these subjects and careers in them. This will help the Higher education institutions in planning their curriculum as well outreach reach programs in both rural and urban areas.</p>
5	<p><b>Modules if any</b></p> <ol style="list-style-type: none"> <li>a. Preparation of questionnaire</li> <li>b. Sending out the survey</li> <li>c. Analyzing the results</li> </ol>