Resolution Number: AC/II(23-24).2.RUS1

S. P. Mandali's

Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)



Syllabus For: Program: Integrated M.Sc. (S.Y. B.Sc. Syllabus) Program Code: RUSBAS

(As per the guidelines of National Education Policy 2020-Academic year 2024-25)

(Choice based Credit System)

GRADUATE ATTRIBUTES

GA	GA Description	
	A student completing Bachelor's Degree in Science program will	
	be able to:	
GA 1	Recall and explain acquired scientific knowledge in a comprehensive	
	manner and apply the skills acquired in their chosen discipline.	
	Interpret scientific ideas and relate its interconnectedness to various	
	fields in science.	
GA 2	Evaluate scientific ideas critically, analyse problems, explore options	
	for practical demonstrations, illustrate work plans and execute	
	them, organise data and draw inferences.	
GA 3	Explore and evaluate digital information and use it for knowledge	
	upgradation. Apply relevant information so gathered for analysis	
	and communication using appropriate digital tools.	
GA 4	Ask relevant questions, understand scientific relevance, hypothesize	
	a scientific problem, construct and execute a project plan and	
	analyse results.	
GA 5	Take complex challenges, work responsibly and independently, as	
	well as in cohesion with a team for completion of a task.	
	Communicate effectively, convincingly and in an articulate manner.	
GA 6	Apply scientific information with sensitivity to values of different	
~	cultural groups. Disseminate scientific knowledge effectively for	
	upliftment of the society.	
6.		
GA 7	Follow ethical practices at work place and be unbiased and critical in	
	interpretation of scientific data. Understand the environmental	
0.	issues and explore sustainable solutions for it.	
GA 8	Keep abreast with current scientific developments in the specific	
	discipline and adapt to technological advancements for better	
	application of scientific knowledge as a lifelong learner.	

Program Outcomes (PO)

РО	Description

	A student completing Bachelor's Degree in Science program in the subject of Bioanalytical Sciences will be able to:
PO 1	Gain high quality science education in a vibrant academic ambience with the faculty of distinguished teachers and scientists.
PO 2	Take up the challenge of doing quality research and teaching and also contribute to industrial production and R & D in the fields of Bioanalysis, Bioinformatics and Nutraceutical Sciences.
PO 3	Amalgamate classical analytical chemical techniques with modern genomic and proteomic technologies of manufacturing and analysis to better characterize the products useful as medicines as well as nutraceuticals.

Semester III

Course Code: RUSAECBASO201

Subject VI

Course Title: Communication Skills

Type of Course: Life Skills

Academic Year 2024-25

S. Y. B.Sc.

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION
CO 1	Apply effective communication skills in day-to-day life.

DETAILED SYLLABUS

Paper Code	Semester III	Credits/Hours
RUSAECBASO201	Communication Skills	2/30
1 Basics of E	Effective Communication	15
1. Basics of effe	ctive communication	
a) Conce	pts	
b) Proces	ss	
c) Myths	about communication	
2. Communicati	ion: It's interpretation	
a) Verba	l Communication (Listening skills)	
b) Non-v	verbal Communication	
c) Barrie	ers to Communication	
3. Writing basic	CS	
a) Spellin	ng rules	
b) Punct	uation	
c) Abbre	eviations	
d) d) Pro	oof Reading	
2 Writing sk	tills: Formal writing	15

1. Letters

- Application Letter
- Bank Letters
- Business Letters
- Letters to the Editor
- 2. E-Communication
- 3. Resume writing
- 4. Interview skills
- 5. Assignment Writing
- 6. Reports
 - Experimental Report
 - Field Work Report
 - Industrial Visit Report

Semester IV

Course Code:

Subject VII

Course Title: Field Project/Regional Case Study

Type of Course: Internship/Research Project Case Study

Academic Year 2024-25

S. Y. B.Sc.

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION
CO 1	Synthesize a scientific discovery-based approach for solving problems.

Paper Code	Semester IV	Lectures/Credits	
	Field Project/Regional Case Studies		
Students will identify a relevant science-based topic having social/economical/cultural implications and will devise a survey to explore various aspects of the same.			
	Or		
Students will identify a problem in their locality and devise a scientific strategy to find its solution.			