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
<b>1</b> 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.			