college

S. P. Mandali's

Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)



Syllabus For:

Program: Integrated M.Sc. in Bioanalytical Sciences

(S.Y.B.Sc. Syllabus)

Program Code: RUSBAS

(As Per Guidelines of National Education Policy 2020 – Academic Year 2024-25)

(Choice Based Credit System)

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GRADUATE ATTRIBUTES

GA	GA Description	
	A student completing Bachelor's Degree in Science program	
	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	
0	upliftment of the society.	
GA 7	Follow ethical practices at work place and be unbiased and critical in	
0	interpretation of scientific data. Understand the environmental	
	issues and explore sustainable solutions for it.	
GA 8	Keep abreast with current scientific developments in the specific	
0.0.	discipline and adapt to technological advancements for better	
	application of scientific knowledge as a lifelong learner.	
	PROGRAM OUTCOMES	
РО	Description	
	A student completing Bachelor's Degree in Science program in the	

РО	Description
	A student completing Bachelor's Degree in Science program in the
	subject of Bioanalytical Sciences will be able to:

PO 1	This course will impart high quality science education in a vibrant academic ambience with the faculty of distinguished teachers and scientists.
PO 2	It will also equip students for the future who will take up the challenge of doing quality research & teaching and also contribute to industrial production and R & D in the fields of Bioanalysis, Bioinformatics and Nutraceutical Sciences.
PO 3	It will 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.
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Ramnarain Ruia Autonomous College, Syllabus For Bioanalytical Sciences (UG) 2024-2025

Semester III

Course Code: RUSGEBAS201

Subject VII

Course Title: Entrepreneurship Skills I

Type Course: General Elective

Academic Year 2024-25

S. Y. B.Sc.

	Type Course: General Elective
	Academic Year 2024-25
	S. Y. B.Sc.
	COURSE OUTCOMES:
COURSE OUTCOME	DESCRIPTION
CO 1	Comprehend the skills and mind-set required to start an enterprise.
C02	Appraise the value of entrepreneurial skills and innovation.

Paper Code	Semester III	
RUSGEBAS201	Entrepreneurship Skills I	2/30
Unit I Enterprise: O 1. Entrepreneurial m 2. The process of ent 3. Types of Enterpris 4. Farmers Producer 5. Case study of Succ	15	
 Unit II Knowledge & Financial Management 1. Entrepreneurship development and Business Knowledge. 2. Government policies and schemes for enterprise development – Analysis of business model and startups. Mudra Yojana, Start Up India. 		15
3. Sources of Finance 4. Critical Success Fa 5. cost classification		

Reference Books:

Entrepreneurship Skills I	 Eric Ries: The Lean Startup Kimiz Dalkir: Knowledge Management in theory and Practice Inseed Inneutring Dadian Drahm, Ahnia
	Jugaad Innovation: Radjou, Prabhu, Ahuja
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Semester IV

Course Code: RUSGEBASE211

Subject VI **Course Title: Entrepreneurship Skills II Type of Course: General Elective**

Academic Year 2024-25

S. Y. B.Sc.

(Course Title: Entrepreneurship Skills II
	Type of Course: General Elective
	Academic Year 2024-25
	S. Y. B.Sc.
COURSE OUTCOME	S:
COURSE OUTCOME	DESCRIPTION
CO 1	Evaluate the importance of building a novel enterprise.
CO2	Apply entrepreneurial strategies in practical life.
CO3	Develop entrepreneurial mindset

Paper Code	Semester IV	
		Credits/Hours
	Entrepreneurship Skills II	2/30
RUSGEBASE211		
Unit I Lau	inching and Organizing an Enterprise	15
1. Environment s	scanning – Economies and Diseconomies of scale.	
	ection, market assessment & project feasibility report.	
3. Raw material Planning & case studies.		
4. Case Studies of successful Indian Brands.		
5. Quality control and Quality Norms.		
Unit II Principles o	f Corporate Management	
1. Principles of M	lanagement	
2. Functions of m	anagement (Planning, Organizing, Directing, Controlling,	
Coordinating)		15
3. Management b	15	
(MBW)		
4. Leadership – q	ualities and style of leadership.	
Reference Books:	· · · · ·	
Entrepreneurship Skills	II Jugaad Innovation: Radjou, Prabhu, Ahuja	